

ADVANCED CONNECTION SYSTEMS

JST CATALOG VOL. 120e



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JST
The Quality Connection

ÍNDICE POR TIPO



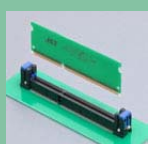
- 1 - CONECTOR A CIRCUITO IMPRESO CON TERMINAL CRIMPADO**
WIRE TO BOARD CRIMP STYLE CONNECTORS



- 2 - CTOR A CIRCUITO IMPRESO TIPO DESPLAZAMIENTO AISLANTE**
WIRE TO BOARD INSULATION DISPLACEMENT CONNECTORS



- 3 - CONECTORES CARTA-CARTA**
BOARD TO BOARD CONNECTORS



- 4 - CONECTORES BORDE DE PLACA**
CARD EDGE CONNECTORS



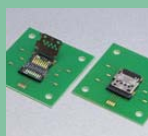
- 5 - CONECTORES PARA PISTA FLEXIBLE**
FFC/FPC CONNECTORS



- 6 - CONECTORES CABLE PLANO IDC**
RIBBON CABLE CONNECTORS



- 7 - TIRA DE PINES, JUMPERS, CONECTORES POR PRESIÓN,**
HEADERS, JUMPERS, COMPRESSION TYPE CONECTORS, OTHERS



- 8 - CONECTORES PARA TARJETAS DE MEMORIA**
CARD CONNECTORS



- 9 - CONECTORES PARA FIBRA ÓPTICA Y CABLE COAXIAL**
COAXIAL OR OPTICAL FIBER CONNECTORS



- 10 - CONECTORES INTERFACE Y SUB-D**
INTERFACE CONNECTION CONNECTORS

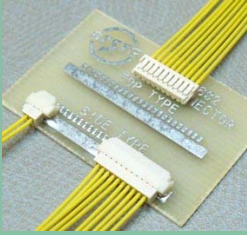


- 11 - CONECTORES CABLE-CABLE (CONEXIÓN AÉREA)**
WIRE TO WIRE CONNECTORS

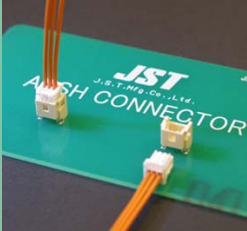


- 12 - CONECTORES COMPATIBLES GWT (GLOW WIRE TEST)**
COMPATIBLE WITH GLOW WIRE TEST

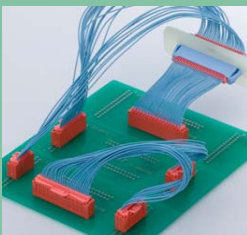
1 - WIRE TO BOARD CRIMP STYLE CONNECTORS



0.8 mm pitch	Series	SUH connector	
	Type	Crimp style, Compat type, Disconnectable type	
	Rate (AC/DC)	Current: 1.0A	Voltage: 30V



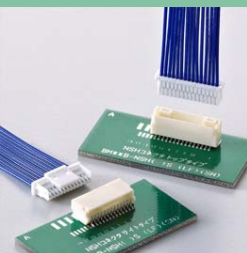
1.0 mm pitch	Series	APSH connector	
	Type	Crimp style, with secure locking device	
	Rate (AC/DC)	Current: 1.0A (AWG#28)	Voltage: 50V



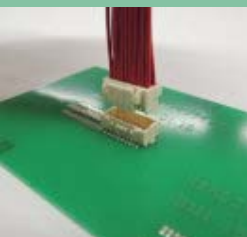
1.0 mm pitch	Series	CSH connector	
	Type	Crimp style, Disconnectable type	
	Rate (AC/DC)	Current: CSH ·CD/2A (AWG#26)	Voltage: 50V



1.0 mm pitch	Series	LD-Y	
	Type	For LVDS, Thin type, With secure locking device	
	Rate (AC/DC)	Current: 0.3A	Voltage: 200V



1.0 mm pitch	Series	NSH connector	
	Type	Crimp style, With secure locking device, Crimp style, disconnectable type	Dis-
	Rate (AC/DC)	Current: 1.0A (AWG#28)	Voltage: 50v



1.0 mm pitch	Series	NSHD connector	
	Type	Crimp style, With secure locking device, Crimp style, Disconnectable type	
	Rate (AC/DC)	Current: 1.0A (AWG#28)	Voltage: 50V



1.0 mm pitch	Series	SH connector	
	Type	Disconnectable type, Crimp style, Compact type	
	Rate (AC/DC)	Current: 1.0A (AWG#28)	Voltage: 50V

WIRE TO BOARD CRIMP STYLE CONNECTORS



1.0 mm pitch	Series	SHD connector	
	Type	Disconnectable type, Crimp style, Compat type, Double.row	
	Rate (AC/DC)	Current: 1.0A (AWG#28)	Voltage: 50V



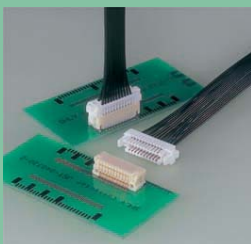
1.0 mm pitch	Series	SHJ connector	
	Type	Crimp style, for LCD back light lamps, With secure locking	
	Rate (AC/DC)	Current: 1.0A (AWG#28)	Voltage: 125V



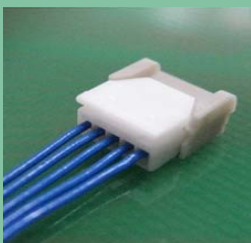
1.0 mm pitch	Series	SHL connector	
	Type	Disconnectable type, Crimp style, Thin type	
	Rate (AC/DC)	Current: 1.0A (AWG#28)	Voltage: 50V



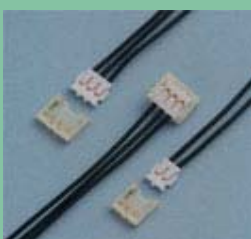
1.0 mm pitch	Series	SHLD connector	
	Type	Disconnectable type, Crimp style, Compact type, Double-row	
	Rate (AC/DC)	Current: 1.0A (AWG#28)	Voltage: 50V



1.0 mm pitch	Series	SHLV connector	
	Type	For LVDS, Double-row	
	Rate (AC/DC)	Current: 1.0A (AWG#28)	Voltage: 30V

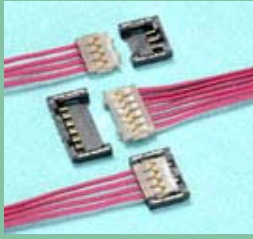


1.0 mm pitch	Series	SFG connector	
	Type	Crimp style, For LCD back light lamps, With secure locking device	
	Rate (AC/DC)	Current: 1.0A (AWG#28)	Voltage: 30V



1.2 mm pitch	Series	ACH connector	
	Type	Disconnectable type, Crimp style, Compact type, Low-profile type	
	Rate (AC/DC)	Current: 2A/1 to 3-circuit (AWG#28) 1.5A/4,5-circuit (AWG#28) Voltage: 50V	

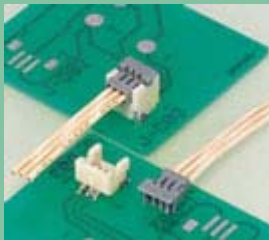
WIRE TO BOARD CRIMP STYLE CONNECTORS



1.2 mm pitch	Series	ACHF connector	
	Type	Crimp style, Disconnectable type, Crimp style, Compact type, Low-profile type	
	Rate (AC/DC)	Current: 2.5A (AWG#28)	Voltage: 50V



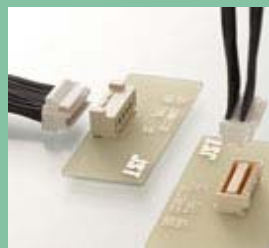
1.2 mm pitch	Series	ACHL connector	
	Type	Disconnectable type, Crimp style, Compact type, Low-profile type	
	Rate (AC/DC)	Current: 2A (AWG#28)	Voltage: 50V



1.25 mm pitch	Series	AGH connector	
	Type	Disconnectable type, For mobile phones, For a battery connection	
	Rate (AC/DC)	Current: 1.0A	Voltage: 50V



1.25 mm pitch	Series	GH connector	
	Type	Disconnectable type, Crimp style, With secure locking device	
	Rate (AC/DC)	Current: 1.0A (AWG#26)	Voltage: 50V



1.25 mm pitch	Series	GHD connector	
	Type	Disconnectable type, Crimp style, Double-row, With secure locking device	
	Rate (AC/DC)	Current: 1.0A (AWG#26)	Voltage: 50V



1.25 mm pitch	Series	GHD connector (Tin-plated product)	
	Type	Disconnectable type, Crimp style, Double-row, With secure locking device	
	Rate (AC/DC)	Current: 1.25A (AWG#26) 1.0A (AWG#28) 0.8A (AWG#30)	Voltage: 100V



1.25 mm pitch	Series	GVH connector	
	Type/pitch	Crimp style, With secure locking device	
	Rate (AC/DC)	Current: 1.0A (AWG#26)	Voltage: 50V

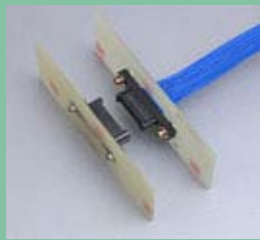
WIRE TO BOARD CRIMP STYLE CONNECTORS



1.3 mm pitch	Series	ADH connector	
	Type	Crimp style, Disconnectable type, Crimp style, Compact type, Low-profile type	
	Rate (AC/DC)	Current: 3A (AWG#26)	Voltage: 30V



1.5 mm pitch	Series	CZH/CZHW connector	
	Type	Disconnectable type, Crimp style, Compact type	
	Rate (AC/DC)	Current: 2A (AWG#26)	Voltage: 100V



1.5 mm pitch	Series	RTZ connector	
	Type	Drawer connector, Double-row, Disconnectable type	
	Rate (AC/DC)	Current: 2.0A (AWG#24)	Voltage: 50v



1.5 mm pitch	Series	SZN connector	
	Type	Board-in connector, Crimp style, Board-in connector	
	Rate (AC/DC)	Current: 0.7A (AWG#26)	Voltage: 50V



1.5 mm pitch	Series	ZE connector	
	Type	Crimp style, With secure locking device	
	Rate (AC/DC)	Current: 2A (AWG#24)	Voltage: 100V



1.5 mm pitch	Series	ZH connector	
	Type/pitch	Disconnectable type, Crimp style, Compact type	
	Rate (AC/DC)	Current: 1.0A (AWG#26)	Voltage: 50V



1.5 mm pitch	Series	ZPD connector	
	Type	Crimp style, Double-row, With secure locking device	
	Rate (AC/DC)	Current: 2A/10 to 30 circuits (AWG#24)	

WIRE TO BOARD CRIMP STYLE CONNECTORS



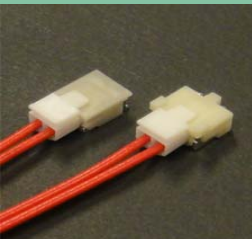
1.8 mm pitch	Series	LEA connector	
	Type	Crimp style, Disconnectable type, Crimp style, With secure locking device	
	Rate (AC/DC)	Current: 3A	Voltage: 300V



1.8 mm pitch	Series	LEH connector	
	Type	Crimp style, Disconnectable type, Crimp style, With secure locking device	
	Rate (AC/DC)	Current: 3A (AWG#22)	Voltage: 300V



1.8 mm pitch	Series	SFH connector	
	Type	Disconnectable type, Crimp style, Compact style, Low-profile type	
	Rate (AC/DC)	Current: 4A (AWG#22)	Voltage: 350V



1.8 mm pitch	Series	SFK connector	
	Type	Crimp style, With secure locking device	
	Rate (AC/DC)	Current: 4A (AWG#22)	Voltage: 350V



2.0 mm pitch	Series	JWPF connector (W to B)	
	Type	Disconnectable type, crimp style, Waterproof connector	
	Rate (AC/DC)	Current: 3A (AWG#22)	Voltage: 100V

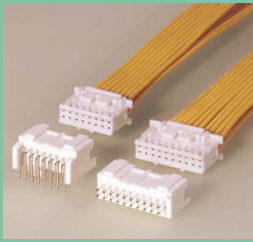


2.0 mm pitch	Series	PA connector	
	Type/pitch	Disconnectable type, Crimp style, With secure locking device	
	Rate (AC/DC)	Current: 3A (AWG#22) Voltage: Standard type/250V Retainer mountable type/100V	



2.0 mm pitch	Series	PA connector (High box type)	
	Type	Disconenectable type, Crimp style, High-box type	
	Rate (AC/DC)	Current: 3A (AWG#22) Voltage: Standard type/250V Retainer mountable type/100V	

WIRE TO BOARD CRIMP STYLE CONNECTORS



2.0 mm pitch	Series	PAD connector	
	Type	Disconnectable type, Crimp style, Double-row, With secure locking device	
	Rate (AC/DC)	Current: 3A (AWG#22)	Voltage: 250V



2.0 mm pitch	Series	PBV connector	
	Type	Crimp style, Disconnectable type, With secure locking device	
	Rate (AC/DC)	Current: 3A	Voltage: 100V



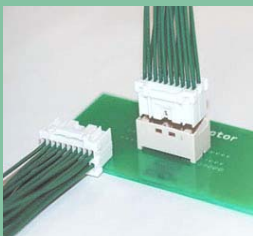
2.0 mm pitch	Series	PH connector	
	Type	Disconnectable type, Crimp style, Thin type	
	Rate (AC/DC)	Current: 2A (AWG#24)	Voltage: 100V



2.0 mm pitch	Series	PH connector (High box type)	
	Type	Disconnectable type, crimp style, High box type	
	Rate (AC/DC)	Current: 2A (AWG#24)	Voltage: 100V



2.0 mm pitch	Series	PHD connector	
	Type/pitch	Disconnectable type, Crimp style, Double-row	
	Rate (AC/DC)	Current: 3A (AWG#22)	Voltage: 250V

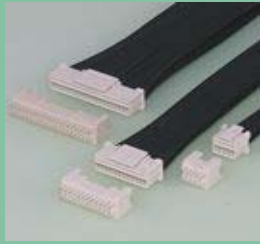


2.0 mm pitch	Series	PID connector	
	Type	Crimp style, With secure locking device	
	Rate (AC/DC)	Current: 3A (AWG#22)	Voltage: 250V



2.0 mm pitch	Series	PLI connector	
	Type	Crimp style, Compact type, With secure locking device, Compact type, Low-profile type	
	Rate (AC/DC)	Current: 3A (AWG#22)	Voltage: 100V

WIRE TO BOARD CRIMP STYLE CONNECTORS



2.0 mm pitch	Series	PND connector	
	Type	Disconnectable type, Crimp style, With secure locking device	
	Rate (AC/DC)	Current: 3A (AWG#22)	Voltage: 250V



2.0 mm pitch	Series	PNI connector	
	Type	Crimp style, With inertia forcé mechanism with secure locking device	
	Rate (AC/DC)	Current: 3A (AWG#22)	Voltage: 100V



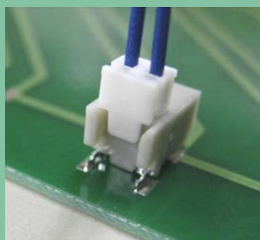
2.0 mm pitch	Series	PNI connector (High box type)	
	Type	Crimp style, Disconnectable type, High-box, With locking device	
	Rate (AC/DC)	Current: 3A	Voltage: 100V



2.0 mm pitch	Series	PUD connector	
	Type	Crimp style, With secure locking device, Disconnectable type	
	Rate (AC/DC)	Current: 3A (AWG#22)	Voltage: 250V



2.0 mm pitch	Series	SAN connector	
	Type/pitch	Board-in connector, Crimp style,	
	Rate (AC/DC)	Current: 2A (AWG#24)	Voltage: 250V



2.0 mm pitch	Series	SFV connector	
	Type/pitch	Crimp style, With secure locking device	
	Rate (AC/DC)	Current: 1.0A (AWG#28)	Voltage: 300V



2.0 mm pitch	Series	SGN connector	
	Type	Board-in connector, Crimp style	
	Rate (AC/DC)	Current: 2A (AWG#24)	Voltage: 250V

WIRE TO BOARD CRIMP STYLE CONNECTORS



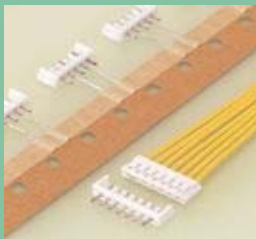
2.0 mm pitch	Series	SJN connector	
	Type	Board-in connector, Crimp style	
	Rate (AC/DC)	Current: 3A (AWG#22)	Voltage: 250V



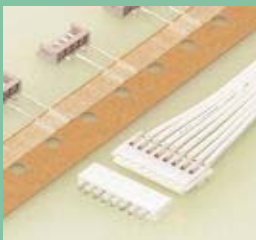
2.2 mm pitch	Series	JFA connector J1000 series (W to B)	
	Type	Interlock type, Crimp style	
	Rate (AC/DC)	Current: 6.2A (3 circuits/AWG#18)	Voltage: 125V



2.3 mm pitch	Series	BHL connector	
	Type	Disconnectable type, For LCD back light lamps, Compact type, Low-profile type	
	Rate (AC/DC)	Current: 1.0A (AWG#24)	Voltage: 1400V



2.5 mm pitch	Series	EH connector	
	Type	Disconenctable type, Crimp style, Thin type	
	Rate (AC/DC)	Current: 3A (AWG#22)	Voltage: 250V



2.5 mm pitch	Series	HR connector (Crimp style)	
	Type/pitch	Disconnectable type, Crimp style, Thin type	
	Rate (AC/DC)	Current: 3A (AWG#22)	Voltage: 250V



2.5 mm pitch	Series	JFA connector J2000 series (W to B)	
	Type	Disconnectable type, Crimp style,	
	Rate (AC/DC)	Current: MAX 4.6A (3circuits/(AWG#20)	Voltage: 250V



2.5 mm pitch	Series	LEX connector	
	Type	Crimp style, Disconnectable type, With secure locking device	
	Rate (AC/DC)	Current: 3A (AWG#22)	Voltage: 300V

WIRE TO BOARD CRIMP STYLE CONNECTORS



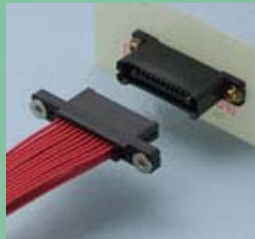
2.5 mm pitch	Series	NH connector	
	Type	Disconnectable type, Crimp style, With locking device	
	Rate (AC/DC)	Current: 3A (AWG#22)	Voltage: 250V



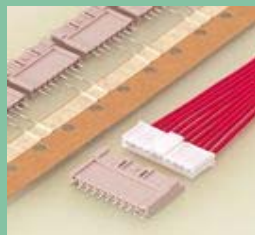
2.0 mm pitch	Series	PXA connector	
	Type	Disconnectable type, Crimp style, With secure locking device	
	Rate (AC/DC)	Current: 3A (AWG#22)	Voltage: 250V



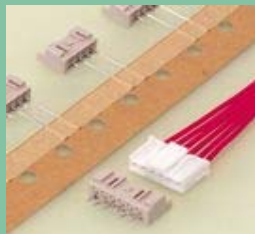
2.5 mm pitch	Series	SCN connector	
	Type	Board-in connector, Crimp style,	
	Rate (AC/DC)	Current: 3A (AWG#22)	Voltage: 250V



2.5 mm pitch	Series	TSF connector	
	Type/pitch	Drawer conenctor, Double-row, Crimp style, Disconnectable type	
	Rate (AC/DC)	Current: 3A (AWG#22)	Voltage: 50V



2.5 mm pitch	Series	XA connetor (High box type)	
	Type	Disconnectable type, Crimp style, High-box type, With locking device	
	Rate (AC/DC)	Current: 3A (AWG#22)	Voltage: 250V

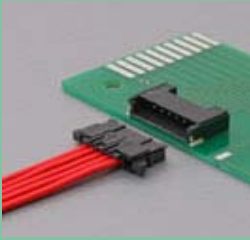


2.5 mm pitch	Series	XA connector (W to B)	
	Type	Disconnectable type, Crimp style, With secure locking device	
	Rate (AC/DC)	Current: 3A (AWG#22, #20)	Voltage: 250V

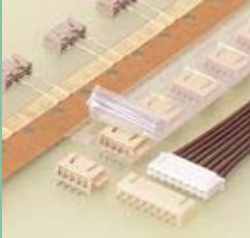


2.5 mm pitch	Series	XAD connector (W to B)	
	Type	Disconnectable type, Crimp style, Double-row, With secure locking device	
	Rate (AC/DC)	Current: 3A (AWG#20)	Voltage: 250V

WIRE TO BOARD CRIMP STYLE CONNECTORS



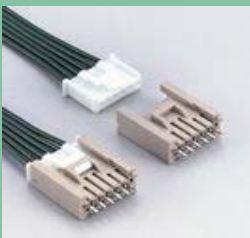
2.5 mm pitch	Series	XAG connector	
	Type	Crimp style, With secure locking device	
	Rate (AC/DC)	Current: 3A (AWG#20)	Voltage: 250V



2.5 mm pitch	Series	XH connector	
	Type	Disconnectable type, Crimp style, Shouded header type	
	Rate (AC/DC)	Current: 3A (AWG#22)	Voltage: 250V



2.5 mm pitch	Series	XH connector (High box type)	
	Type/pitch	Disconnectable type, Crimp style, High-box type	
	Rate (AC/DC)	Current: 3A (AWG#22)	Voltage: 250V



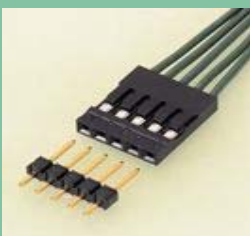
2.5 mm pitch	Series	XM connector (High box type)	
	Type	Disconnectable type, Crimp style, High-box type, With inner type secure locking device	
	Rate (AC/DC)	Current: 3A (AWG#22), #20	Voltage: 250V



2.5 mm pitch	Series	XNI connector	
	Type	Crimp style, With secire locking device, Inertial lock structure	
	Rate (AC/DC)	Current: 3A (AWG#22)	Voltage: 250V

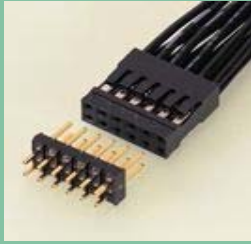


2.54 mm pitch	Series	RA connector crimp style	
	Type	Disconnectable type, Crimp style, I/O connector	
	Rate (AC/DC)	Current: 1.0A (AWG#22)	Voltage: 300V

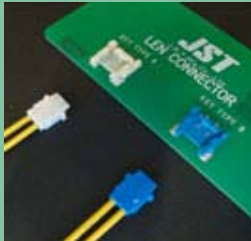


2.54 mm pitch	Series	RE connector	
	Type	Disconnectable type, Crimp style, Internal connection for OA equipments	
	Rate (AC/DC)	Current: 2A (5-circuit/AWG#24)	Voltage: 250V

WIRE TO BOARD CRIMP STYLE CONNECTORS



2.54 mm pitch	Series	RF connector	
	Type	Disconnectable type, Crimp style, Internal connection for OA equipments, Double-row	
	Rate (AC/DC)	Current: 2A (AWG#24)	Voltage: 250V



3.0 mm pitch	Series	LEN connector	
	Type/pitch	Crimp style, Disconnectable type, With secure locking device	
	Rate (AC/DC)	Current: 3A (AWG#22)	Voltage: 300V



3.5 mm pitch	Series	BD connector (3.5mm pitch)	
	Type	Disconnectable type, Crimp style, For LCD back light lamps, With secure locking device	
	Rate (AC/DC)	Current: 1.0A (AWG#24)	Voltage: 1400V



3.5 mm pitch	Series	BHS connector (W to B)	
	Type	Disconnectable type, Crimp style, For LCD back light lamps, Compact type	
	Rate (AC/DC)	Current: 1.0A (AWG#24)	Voltage: 1400V



3.81 mm pitch	Series	JFA connector J300	
	Type	Disconnectable type, Crimp style	
	Rate (AC/DC)	Current: 15A (Single circuit/AWG#14)	Voltage: 250V



3.96 mm pitch	Series	HL connector (W to B)	
	Type	Disconnectable type, Crimp style, Shrouded header type, With inner type secure locking device	
	Rate (AC/DC)	Current: 7A (4 circuits/AWG#18)	Voltage: 300V



3.96 mm pitch	Series	SDN connector	
	Type	Board-in connector, Crimp style	
	Rate (AC/DC)	Current: 7A (AWG#18)	Voltage: 250V

WIRE TO BOARD CRIMP STYLE CONNECTORS



3.96 mm pitch	Series	VH connector	
	Type/pitch	Disconnectable type, Crimp style, Compact type, With locking device	
	Rate (AC/DC)	Current: 10A (AWG#16)	Voltage: 250V



3.96 mm pitch	Series	VH connector (High box)	
	Type	Disconnectable type, Crimp style, High-box type, With locking device	
	Rate (AC/DC)	Current: 7A (AWG#18) 10A(1 circuit/AWG#16)	Voltage: 250V



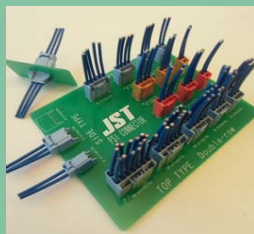
3.96 mm pitch	Series	VU connector	
	Type	Disconnectable type, Crimp style, With secure locking device	
	Rate (AC/DC)	Current: 5A (AWG#18)	Voltage: 250V



4.0 mm pitch	Series	BH connector (4.0mm pitch)	
	Type	Disconnectable type, Crimp style, For LCD back light lamps	
	Rate (AC/DC)	Current: 1.0A (AWG#22)	Voltage: 600V



4.0 mm pitch	Series	JWPS connector (W to B)	
	Type	Crimp style, Disconnectable type, Waterproof connector	
	Rate (AC/DC)	Current: 4A (AWG#22), 5A (AWG#20), 6A (AWG#18)	



4.0 mm pitch	Series	PSI connector	
	Type	Crimp style, With locking device	
	Rate (AC/DC)	Current: 12A	Voltage: 300V



5.0 mm pitch	Series	DV connector	
	Type	Disconnectable type, Crimp style, Polarization by pin arrangement, With locking device	
	Rate (AC/DC)	Current: 5A (AWG#20)	Voltage: 250V

WIRE TO BOARD CRIMP STYLE CONNECTORS



5.0 mm pitch	Series	NV connector	
	Type	Disconnectable type, Crimp style, With locking device,	
	Rate (AC/DC)	Current: 10A (AWG#16)	Voltage: 250V



5.0 mm pitch	Series	SV connector	
	Type/pitch	Disconnectable type, Crimp style	
	Rate (AC/DC)	Current: 5A (AWG#20)	Voltage: 250V



5.0 mm pitch	Series	V connector	
	Type	Disconnectable type, Crimp style, Polarization by pin arrangement	
	Rate (AC/DC)	Current: 5A (AWG#20)	Voltage: 250V



5.0 mm pitch	Series	WPJ connector (W to B)	
	Type	Crimp style, Disconnectable type,	
	Rate (AC/DC)	Current: 7A (AWG#18)	Voltage: 300V



5.0 mm pitch	Series	XL connector (W to B)	
	Type	Disconnectable type, Crimp style, With locking device	
	Rate (AC/DC)	Current: 10A (2 circuits/AWG#16)	Voltage: 150V



5.08 mm pitch	Series	JFA connector J300 series (W to B)	
	Type	Disconnectable type, Crimp style,	
	Rate (AC/DC)	Current: 15A (Single circuit/AWG#14)	Voltage: 600V



5.08 mm pitch	Series	LC connector	
	Type	Disconnectable type, Crimp style, Secondary power supply for OA equipments	
	Rate (AC/DC)	Current: 7A (AWG#18)	Voltage: 250V

WIRE TO BOARD CRIMP STYLE CONNECTORS



5.08 mm pitch	Series	LC connector L type	
	Type	Disconnectable type, Crimp style, Secondary power supply for OA equipments	
	Rate (AC/DC)	Current: 5A (AWG#20)	Voltage: 250V



5.08 mm pitch	Series	VB connector	
	Type/pitch	Disconnectable type, Crimp style	
	Rate (AC/DC)	Current: 7A (AWG#18)	Voltage: 250V



5.1 mm pitch	Series	BHT connector (W to B)	
	Type	Disconnectable type, Crimp style, For LCD back light lamps, Low-profile type	
	Rate (AC/DC)	Current: 1.0A (AWG#24)	Voltage: 1500V



6.0 mm pitch	Series	JFA connector J4000 Series (W to B)	
	Type	Disconnectable type, Crimp style,	
	Rate (AC/DC)	Current: 20A (3 circuits/AWG#12)	Voltage: 600V



6.2 mm pitch	Series	VL connector (W to B)	
	Type	Disconnectable type, Crimp style, High current rating With inner type secure locking device	
	Rate (AC/DC)	Current: 20A (2 circuits/AWG#12)	Voltage: 600V



6.35 mm pitch	Series	JFA connector J4000 Series (W to B)	
	Type	Disconnectable type, Crimp style,	
	Rate (AC/DC)	Current: 20A (AWG#12)	Voltage: 600V



6.5 mm pitch	Series	VYH connector	
	Type	Disconnectable type, Crimp style, High current rating	
	Rate (AC/DC)	Current: 15A (2 circuits/AWG#14)	Voltage: 300V

WIRE TO BOARD CRIMP STYLE CONNECTORS



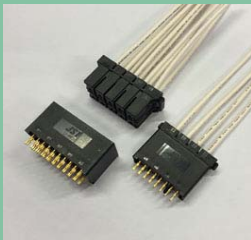
7.92 mm pitch	Series	NVA connector	
	Type	Disconnectable type, Crimp style, High current rating, With locking device	
	Rate (AC/DC)	Current: 10A (AWG#16)	Voltage: 250V



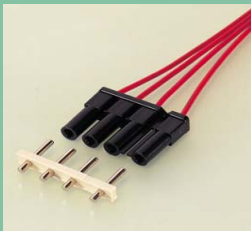
7.92 mm pitch	Series	VA connector	
	Type/pitch	Disconnectable type, Crimp style, With locking device	
	Rate (AC/DC)	Current: 7A (AWG#18)	Voltage: 250V



8.0 mm pitch	Series	BH connector (8.0mm pitch)	
	Type	Disconnectable type, Crimp style, For LCD back light lamps	
	Rate (AC/DC)	Current: 1.0A (AWG#22)	Voltage: 600V



8.0 mm pitch	Series	JFA connector J-PF3 press fit type	
	Type/pitch	Disconnectable type, Crimp style	
	Rate (AC/DC)	Current: 13A (4 circuits/AWG#14) Voltage: 250V	



8.0 mm pitch	Series	LV connector	
	Type	Disconnectable type, Crimp style,	
	Rate (AC/DC)	Current: Standard type/5A (AWG#20) Low insertion force ype/7A (AWG#18) Voltage: 250V	



8.8 mm pitch	Series	JFPS connector	
	Type	Compact type, Crimp style, With secure locking device	
	Rate (AC/DC)	Current: 35A (2-circuit: AWG#10) Voltage: 600V	



11.88 mm pitch	Series	VT connector	
	Type	Disconnectable type, Crimp style, With locking device	
	Rate (AC/DC)	Current: 12A (AWG#16)	Voltage: 250V

WIRE TO BOARD CRIMP STYLE CONNECTORS



12.0 mm pitch	Series	BH connector (12.0mm pitch)	
	Type	Disconnectable type, Crimp style, For LCD back light lamps	
	Rate (AC/DC)	Current: 1.0A (AWG#22)	Voltage: 600V



13.0 mm pitch	Series	BD connector (13mm pitch)	
	Type	Disconnectable type, Crimp style, For LCD back light lamps, With secure locking device	
	Rate (AC/DC)	Current: 1.0A (AWG#24)	Voltage: 3000V



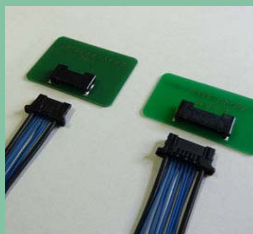
	Series	AUH connector	
	Type	Crimp tyle, Disconnectable type, Compact type, Low-profile type	
	Rate (AC/DC)	Current: Power supply circuit/5A (AWG#22) Signal circuit/1A	Voltage: 30V



	Series	CN connector (W to B)	
	Type/pitch	Disconnectable type, Crimp style, Coaxial connector	
	Rate (AC/DC)	Current: 1.0A (AWG#25)	Voltage: 250V



	Series	JFA connector (Metal Shell)	
	Type	Disconnectable type, Crimp style	
	Rate (AC/DC)		



	Series	LBT connector A type	
	Type	Wire to Board Crimp style Connectors	
	Rate (AC/DC)	Current: Power supply/7.0A (AWG#20) Signal circuit/0.5A (AWG#28)	Voltage: 50v



	Series	SDF connector	
	Type	Disconnectable type, Crimp style, Single-circuit type	
	Rate (AC/DC)	Current: 5A	

WIRE TO BOARD CRIMP STYLE CONNECTORS



	Series	SIN terminal
	Type	Board-in connector, Crimp style, Single-circuit type
	Rate (AC/DC)	Current: Depends on applicable wires

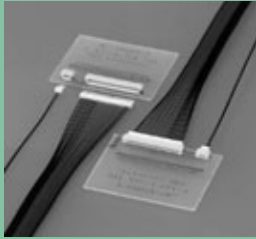


	Series	SMF connector
	Type	Disconnectable type, Crimp style, Single-circuit type
	Rate (AC/DC)	Current: 5A



	Series	SPF connector
	Type	Disconnectable type, Crimp style, Single-circuit type
	Rate (AC/DC)	Current: 5A

WIRE TO BOARD INSULATION DISPLACEMENT CONNECTORS



0.6 mm pitch	Series	XSR connector
	Type	IDC style, IDC style, Disconnectable type
	Rate (AC/DC)	Current:0.2A Voltage:30V



0.8 mm pitch	Series	SUR connector
	Type	Disconnectable type, IDC style, Compact type, Low-profile type
	Rate (AC/DC)	Current: 0.5A (AWG#32) 0.2A (AWG#36) Voltage: 30V



1.0 mm pitch	Series	ASR connector
	Type	Disconnectable type, IDC style, Top entry, Wire side-feed type
	Rate (AC/DC)	Current:0.7A Voltage:50V



1.0 mm pitch	Series	CS connector
	Type	IDC style, Disconnectable type, IDC style, With secure locking device
	Rate (AC/DC)	Current: CSR/1.8A (AWG#27) CSH/2A (AWG#26) Voltage: 50V



1.0 mm pitch	Series	CSR connector
	Type	IDC style, Disconnectable type
	Rate (AC/DC)	Current:CSR-CS/1.8A (AWG#27) Voltage:50V



1.0 mm pitch	Series	SR/SZ connector
	Type	Disconnectable type, IDC style, Compact type
	Rate (AC/DC)	Current:0.7A Voltage:50V

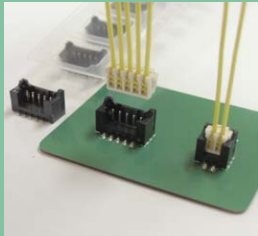


1.0 mm pitch	Series	SSR connector
	Type	Disconnectable type, IDC style, Compact type, Low-profile type
	Rate (AC/DC)	Current: 0.5A Voltage: 50V

WIRE TO BOARD INSULATION DISPLACEMENT CONNECTORS



1.5 mm pitch	Series	CZ/CZW connector	
	Type	Disconnectable type, IDC style, Space saving mountable	
	Rate (AC/DC)	Current: 2A (AWG#26)	Voltage: 100V



1.5 mm pitch	Series	CZF connector	
	Type	Disconnectable type, IDC style	
	Rate (AC/DC)	Current: 2A (AWG#26)	Voltage: 100V



1.5 mm pitch	Series	ZA connector	
	Type	Board-in connector, IDC style, Board-in connector	
	Rate (AC/DC)	Current: 0.7A (AWG#28)	Voltage: 50V



1.5 mm pitch	Series	ZF/ZFW connector	
	Type	IDC style, With secure locking device, IDC style, Disconnectable type	
	Rate (AC/DC)	Current: 0.7A (AWG#28)	Voltage: 50V



1.5 mm pitch	Series	ZR connector	
	Type	Disconnectable type, IDC style, Compact type	
	Rate (AC/DC)	Current: 0.7A (AWG#28)	Voltage: 50V



2.0 mm pitch	Series	CK connector	
	Type	Disconnectable type, IDC style, Low-profile type	
	Rate (AC/DC)	Current: 2A (AWG#26)	Voltage: 100V



2.0 mm pitch	Series	CR connector	
	Type	Disconnectable type, IDC style, Low-profile type	
	Rate (AC/DC)	Current: 1.0A	Voltage: 100V

WIRE TO BOARD INSULATION DISPLACEMENT CONNECTORS



2.0 mm pitch	Series	DA connector
	Type	Board-in connector, IDC style, Board-in connector
	Rate (AC/DC)	Current: 1.0A (AWG#26) Voltage: 100V



2.0 mm pitch	Series	DD/DS connector
	Type	Board-in connector, IDC style, Board-in connector, Top entry, Wire side-feed type
	Rate (AC/DC)	Current: 0.7A Voltage: 100V



2.0 mm pitch	Series	DR connector
	Type	Disconnectable type, IDC style, Space saving mountable
	Rate (AC/DC)	Current: 1.0A (AWG#26) Voltage: 100V



2.0 mm pitch	Series	KR connector
	Type	Disconnectable type, IDC style, Low-profile type
	Rate (AC/DC)	Current: 1.0A (AWG#26) Voltage: 100V



2.0 mm pitch	Series	KRD connector
	Type	Disconnectable type, IDC style, Daisy chain connection
	Rate (AC/DC)	Current: 1.0A (AWG#26) Voltage: 100V



2.0 mm pitch	Series	KRW connector
	Type	Disconnectable type, IDC style, Double-row
	Rate (AC/DC)	Current: 1.0A (AWG#26) Voltage: 100V



2.0 mm pitch	Series	PAF connector
	Type	Disconnectable type, IDC style, With secure locking device
	Rate (AC/DC)	Current: 1.0A (AWG#26) Voltage: 100V

WIRE TO BOARD INSULATION DISPLACEMENT CONNECTORS



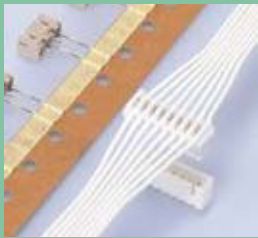
2.5 mm pitch	Series	DB connector	
	Type	Board-in connector, IDC style, Board-in connector	
	Rate (AC/DC)	Current: 2A (AWG#24)	Voltage: 250V



2.5 mm pitch	Series	HR connector (IDC type)	
	Type	Disconnectable type, IDC style, Thin type	
	Rate (AC/DC)	Current: 2A (AWG#24)	Voltage: 250V



2.5 mm pitch	Series	NR connector	
	Type	Disconnectable type, IDC style, Top entry, Wire side-feed type	
	Rate (AC/DC)	Current:2A (AWG#24)	Voltage:250V



2.5 mm pitch	Series	NRD connector	
	Type	Disconnectable type, IDC style, Daisy chain connection	
	Rate (AC/DC)	Current:2A (AWG#24)	Voltage:250V

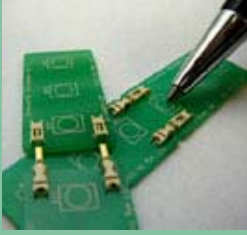


2.5 mm pitch	Series	XAF connector	
	Type	Disconnectable type, IDC style, With secure locking device	
	Rate (AC/DC)	Current: 3A (AWG#22)	Voltage: 150V



3.96 mm pitch	Series	VR connector	
	Type	Disconnectable type, IDC style, Top entry, Wire side-feed type	
	Rate (AC/DC)	Current: 7A (AWG#18)	Voltage: 250V

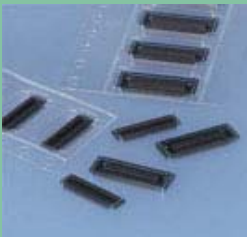
BOARD TO BOARD CONNECTORS



0.0 mm pitch	Series	LEL connector	
	Type	Absorbing PC board misalignment type, PC board horizontal mounting type	
	Rate (AC/DC)	Current: 1.6A	Voltage: 100V



0.4 mm pitch	Series	JAK connector	
	Type	With locking device, PC board perpendicular mounting type, Disconnectable type	
	Rate (AC/DC)	Current: 0.3A	Voltage: 30V



0.4 mm pitch	Series	JAN connector	
	Type	Shrouded header type, PC board parallel mounting type	
	Rate (AC/DC)	Current: 0.2A	Voltage: 30V



0.4 mm pitch	Series	JAS connector	
	Type	Shrouded header type, PC board parallel mounting type	
	Rate (AC/DC)	Current: 0.3A	Voltage: 30V



0.4 mm pitch	Series	JAV connector	
	Type	Shrouded header type, PC board parallel mounting type	
	Rate (AC/DC)	Current: 0.3A	Voltage: 30v

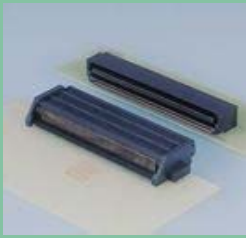


0.5 mm pitch	Series	JMC connector	
	Type	Full automatic IDC machine, Compact type, Space saving	
	Rate (AC/DC)	Current: 0.5A	Voltage: 50V



0.5 mm pitch	Series	JMD connector	
	Type	Shrouded header type, PC board parallel or perpendicular mounting type	
	Rate (AC/DC)	Current: 0.5A	Voltage: 50V

BOARD TO BOARD CONNECTORS



0.6 mm pitch	Series	JU connector	
	Type	Shrouded header type, Compact type, PC board parallel or perpendicular mounting type	
	Rate (AC/DC)	Current: 0.5A	Voltage: 50V



0.6 mm pitch	Series	JUX connector	
	Type	Shrouded header type, Compact type, PC board parallel or perpendicular mounting type type	
	Rate (AC/DC)	Current: 0.5A	Voltage: 50V



0.635 mm pitch	Series	HTB connector	
	Type	Absorbing PC board misalignment type, PC board perpendicular mounting type	
	Rate (AC/DC)	Current: 0.5A	Voltage: 50V



0.8 mm pitch	Series	CRK connector	
	Type	For Craidles	
	Rate (AC/DC)	Current: Signal circuit/0.5A	Voltage: Signal circuit/30V



0.8 mm pitch	Series	JFC connector	
	Type	Absorbing PC board misalignment type, PC board parallel mounting type	
	Rate (AC/DC)	Current: 1.3A	Voltage: 125V



1.0 mm pitch	Series	RHM connector	
	Type	Shrouded header type, PC board parallel mounting type	
	Rate (AC/DC)	Current: 0.5A	Voltage: 50V



1.25 mm pitch	Series	1.25FJ connector	
	Type	Absorbing PC board misalignment type, PC board horizontal mounting type	
	Rate (AC/DC)	Current: 0.5A	Voltage: 50V

BOARD TO BOARD CONNECTORS



1.25 mm pitch	Series	1.25FJ-N connector	
	Type	Absorbing PC board misalignment type, PC board horizontal mounting type , For long distance between two PC board	
	Rate (AC/DC)	Current: 1.0A	Voltage: 50V



1.25 mm pitch	Series	JE connector	
	Type	Shrouded header type, PC board perpendicular mounting type	
	Rate (AC/DC)	Current: 1.0A	Voltage: 50V



1.25 mm pitch	Series	JED connector	
	Type	Shrouded header type, Double-row, PC board parallel or perpendicular mounting type	
	Rate (AC/DC)	Current: 1.0A	Voltage: 50V



0.8 mm pitch	Series	JET connector	
	Type	With locking device, PC board perpendicular mounting type, With staggered solder tails	
	Rate (AC/DC)	Current: 1.0A	Voltage: 50V



1.27 mm pitch	Series	JXV connector	
	Type	Shrouded header type, PC board horizontal, parallel or perpendicular mounting type, Rectangular connector, High-density mountable type, SMT type	
	Rate (AC/DC)	Current: 1.0A	Voltage: 125V



1.5 mm pitch	Series	HQM connector	
	Type	Hinge type, Absorbing PC board misalignment type, PC board	
	Rate (AC/DC)	Current: 1.0A	Voltage: 100V



1.5 mm pitch	Series	JDF connector	
	Type	Absorbing PC board misalignment type, PC board perpendicular mounting type	
	Rate (AC/DC)	Current: 1.0A	Voltage: 50V

BOARD TO BOARD CONNECTORS



1.5 mm pitch	Series	JDV connector	
	Type	With locking device, PC board perpendicular mounting type, With staggered solder tails	
	Rate (AC/DC)	Current: 1.0A	Voltage: 50V



2.0 mm pitch	Series	FJ connector	
	Type	Absorbing PC board misalignment type, PC board horizontal mounting type	
	Rate (AC/DC)	Current: 1.0A	Voltage: 50V



2.0 mm pitch	Series	FJ-K connector	
	Type	Absorbing PC board misalignment type, PC board horizontal mounting type, For long distance between two PC board	
	Rate (AC/DC)	Current: 1.0A	Voltage: 50V



2.0 mm pitch	Series	FJ-L connector	
	Type	Absorbing PC board misalignment type, PC board horizontal mounting type, For long distance between two PC board	
	Rate (AC/DC)	Current: 1.0A	Voltage: 50V



2.0 mm pitch	Series	FJ-V connector	
	Type	Absorbing PC board misalignment type, PC board horizontal mounting type, For long distance between two PC board	
	Rate (AC/DC)	Current: 1.0A	Voltage: 50V



2.0 mm pitch	Series	HQF connector	
	Type	Hinge type, Absorbing PC board misalignment type, PC board parallel or perpendicular mounting type, With staggered solder tails	
	Rate (AC/DC)	Current: 1.0A	Voltage: 100V



2.0 mm pitch	Series	MQ connector	
	Type	Shrouded header type, Compact type, PC board parallel or perpendicular mounting type	
	Rate (AC/DC)	Current: 1.0A	Voltage: 250V

BOARD TO BOARD CONNECTORS



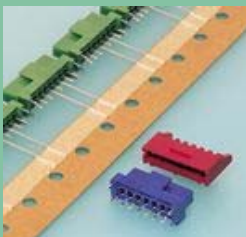
2.5 mm pitch	Series	2.5FJ connector	
	Type	Absorbing PC board misalignment type, PC board horizontal mounting type	
	Rate (AC/DC)	Current: 1.0A	Voltage: 50V



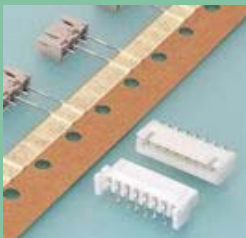
2.5 mm pitch	Series	2.5FJ-N connector	
	Type	Absorbing PC board misalignment type, PC board horizontal mounting type , For long distance between two PC board	
	Rate (AC/DC)	Current: 1.0A	Voltage: 50V



2.5 mm pitch	Series	HVQ connector	
	Type	With locking device, PC board horizontal, parallel or perpendicular mounting type	
	Rate (AC/DC)	Current: 3A	Voltage: 250V



2.0 mm pitch	Series	JL connector	
	Type	Shrouded header type, With locking device, PC board perpendicular mounting type	
	Rate (AC/DC)	Current: 3A	Voltage: 250V



2.0 mm pitch	Series	JQ connector	
	Type	Shrouded header type, PC board horizontal, parallel or perpendicular mounting type	
	Rate (AC/DC)	Current: 3A	Voltage: 250V



2.5 mm pitch	Series	MBS connector	
	Type	PC board perpendicular mounting type	
	Rate (AC/DC)	Current: 1.0A	Voltage: 250V



2.54 mm pitch	Series	DIN connector	
	Type	Conformed to DIN standard	
	Rate (AC/DC)	Current: 1.0A	Voltage: 250V

BOARD TO BOARD CONNECTORS

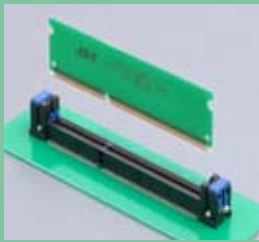


2.5 mm pitch	Series	LEB connector	
	Type	Crimp style, Disconnectable type, Absorbing PC board misalignment type, PC board horizontal mounting type	
	Rate (AC/DC)	Current: 3A	Voltage: 300V



2.5 mm pitch	Series	LEK connector	
	Type	Absorbing PC board misalignment type, PC board horizontal mounting type	
	Rate (AC/DC)	Current: 3A	

CARD EDGE CONNECTORS



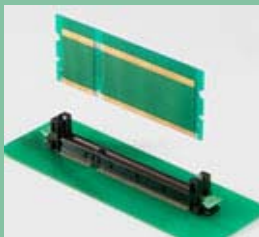
0.6 mm pitch	Series	DIM connector	
	Type	For S.O.DIMM	
	Rate (AC/DC)	Current: 0.3A	Voltage: 25V



0.6 mm pitch	Series	DM-200P connector	
	Type	For S.O.DIMM	
	Rate (AC/DC)	Current: 0.3A	Voltage: 25V



0.8 mm pitch	Series	DM-144P connector	
	Type	For S.O.DIMM	
	Rate (AC/DC)	Current: 0.5A	Voltage: 250V



0.8 mm pitch	Series	DM-144P connector 32bits	
	Type	For S.O.DIMM	
	Rate (AC/DC)	Current: 0.5A	Voltage: 250V



1.27 mm pitch	Series	DM-72P connector	
	Type	For DIMM	
	Rate (AC/DC)	Current: 0.5A	Voltage: 250V

FFC/FPC CONNECTORS



0.2 mm pitch	Series	FVX connector	
	Type	Low-profile type, With slide lock mechanism, Zero insertion force type, SMT type.	
	Rate (AC/DC)	Current: 0.2A	Voltage: 50V



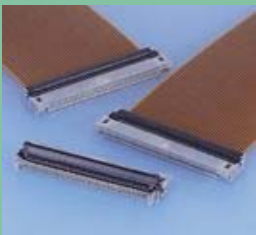
0.2 mm pitch	Series	FVXL Connector	
	Type	Low-profile type, With slide lock mechanism, Double Zero insertion force type, SMT type	
	Rate (AC/DC)	Current: 0.2A	Voltage: 50V



0.2 mm pitch	Series	FVXS connector	
	Type	Zero insertion force type, SMT type	
	Rate (AC/DC)	Current: 0.2A	Voltage: 50V



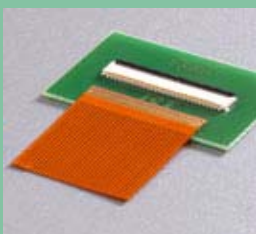
0.3 mm pitch	Series	FGEM connector	
	Type	Double Zero insertion force type, SMT type	
	Rate (AC/DC)	Current: 0.2A	Voltage: 50V



0.3 mm pitch	Series	FXM connector	
	Type	Double Zero insertion force type, SMT type	
	Rate (AC/DC)	Current: 0.2A	Voltage: 50V



0.3 mm pitch	Series	FXR connector	
	Type	Zero insertion force type, SMT type	
	Rate (AC/DC)	Current: 0.2A	Voltage: 50V



0.3 mm pitch	Series	FXRH connector	
	Type	Zero insertion force type, SMT type	
	Rate (AC/DC)	Current: 0.2A	Voltage: 50V

FFC/FPC CONNECTORS



0.3 mm pitch	Series	FXS connector	
	Type	Zero insertion force type, SMT type	
	Rate (AC/DC)	Current: 0.2A	Voltage:50V



0.3 mm pitch	Series	FXV connector	
	Type	Double Zero insertion force type, SMT type, Low-profile type, With slide lock mechanism.	
	Rate (AC/DC)	Current:0.2A	Voltage:50V



0.3 mm pitch	Series	FXVL Connector	
	Type	Double Zero insertion force type, SMT type.	
	Rate (AC/DC)	Current: 0.2A	Voltage: 50V



0.3 mm pitch	Series	FXW connector	
	Type	Low-profile type, With slide lock mechanism, Double Zero insertion force type, SMT type.	
	Rate (AC/DC)	Current: 0.2A	Voltage: 50V



0.3 mm pitch	Series	FXY connector	
	Type	Low-profile type, With slide lock mechanism, Zero insertion force type, SMT type.	
	Rate (AC/DC)	Current: 0.2A	Voltage: 50V



0.3 mm pitch	Series	FXZ connector	
	Type	Double Zero insertion force type, SMT type	
	Rate (AC/DC)	Current: 0.2A	Voltage: 50V



0.3 mm pitch	Series	FXZT connector	
	Type	Zero insertion force type, SMT type	
	Rate (AC/DC)	Current: 0.2A	Voltage:50V

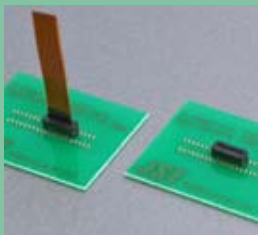
FFC/FPC CONNECTORS



0.4 mm pitch	Series	FZ connector	
	Type	Snap-in type, SMT type	
	Rate (AC/DC)	Current: 0.5A	Voltage: 50V



0.4 mm pitch	Series	FZA Connector	
	Type	Snap-in type, SMT type.	
	Rate (AC/DC)	Current: 0.5A	Voltage: 50V



0.4 mm pitch	Series	FZC Connector	
	Type	Snap-in type, SMT type.	
	Rate (AC/DC)	Current: 0.5A	Voltage: 50V



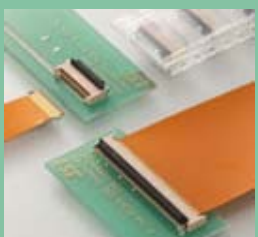
0.5 mm pitch	Series	FCH Connector	
	Type	Snap-in type, SMT type.	
	Rate (AC/DC)	Current: 0.3A	Voltage: 50V



0.5 mm pitch	Series	FH connector	
	Type	Snap-in type, SMT type	
	Rate (AC/DC)	Current: 0.5A	Voltage: 50V



0.5 mm pitch	Series	FHA Connector	
	Type	Snap-in type, SMT type.	
	Rate (AC/DC)	Current: 0.5A	Voltage: 50V



0.5 mm pitch	Series	FHH connector	
	Type	Zero insertion force type, SMT type	
	Rate (AC/DC)	Current: 0.5A	Voltage: 50V

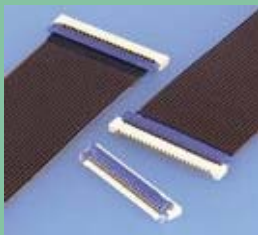
FFC/FPC CONNECTORS



0.5 mm pitch	Series	FHJ connector	
	Type	Snap-in type, SMT type	
	Rate (AC/DC)	Current: 0.5A	Voltage: 50V



0.5 mm pitch	Series	FHS connector	
	Type	Zero insertion force type, SMT type	
	Rate (AC/DC)	Current: 0.5A	Voltage: 50V



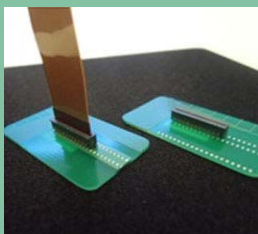
0.5 mm pitch	Series	FHSY connector	
	Type	Zero insertion force type, SMT type	
	Rate (AC/DC)	Current: 0.5A	Voltage: 50V



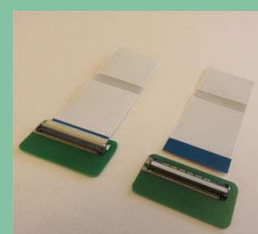
0.5 mm pitch	Series	FHY connector	
	Type	Zero insertion force type, SMT type, Zero insertion force type, With slide lock mechanism, For long distance between two PC board	
	Rate (AC/DC)	Current: 0.5A	Voltage: 50V



0.5 mm pitch	Series	FKZ connector	
	Type	Zero insertion force type, SMT type	
	Rate (AC/DC)	Current: 0.5A	Voltage: 50V



0.5 mm pitch	Series	FHT connector	
	Type	Snap-in type, SMT type	
	Rate (AC/DC)	Current: 0.5A	Voltage: 50V



0.5 mm pitch	Series	FHV connector	
	Type	Zero insertion force type, SMT type	
	Rate (AC/DC)	Current: 0.5A	Voltage: 50V

FFC/FPC CONNECTORS



0.5 mm pitch	Series	FLH connector	
	Type	Zero insertion force type, SMT type	
	Rate (AC/DC)	Current: 0.5A	Voltage: 50V



0.5 mm pitch	Series	FLS connector	
	Type	Zero insertion force type, SMT type	
	Rate (AC/DC)	Current: 0.5A	Voltage: 50V



0.5 mm pitch	Series	FLT connector	
	Type	Snap-in type, SMT type	
	Rate (AC/DC)	Current: 0.5A	Voltage: 50V



0.5 mm pitch	Series	FLZ connector	
	Type	Zero insertion force type, SMT type	
	Rate (AC/DC)	Current: 0.5A	Voltage: 50V



0.5 mm pitch	Series	FLZT connector	
	Type	Zero insertion force type, SMT type	
	Rate (AC/DC)	Current: 0.5A	Voltage: 50V



0.5 mm pitch	Series	FLZX connector	
	Type	Zero insertion force type, SMT type	
	Rate (AC/DC)	Current: 0.5A	Voltage: 50V



0.5 mm pitch	Series	FY connector	
	Type	Snap-in type, SMT type	
	Rate (AC/DC)	Current: 0.3A	Voltage: 30V

FFC/FPC CONNECTORS



1.0 mm pitch	Series	FAZ connector	
	Type	Zero insertion force type, SMT type	
	Rate (AC/DC)	Current: 1.0A	Voltage: 50V



1.0 mm pitch	Series	FM connector	
	Type	Snap-in type, SMT type/DIP type	
	Rate (AC/DC)	Current: 0.5A	Voltage: 50V



1.0 mm pitch	Series	FMN connector	
	Type	Snap-in type, SMT type/DIP type	
	Rate (AC/DC)	Current: 0.5A	Voltage: 50V



1.0 mm pitch	Series	FMS connector	
	Type	Snap-in type, SMT type	
	Rate (AC/DC)	Current: 0.5A	Voltage: 50V



1.0 mm pitch	Series	FMZ connector	
	Type	Zero insertion force type, DIP type	
	Rate (AC/DC)	Current: 0.5A	Voltage: 50V



1.0 mm pitch	Series	FPZ connector	
	Type	Zero insertion force type, SMT type	
	Rate (AC/DC)	Current: 0.5A	Voltage: 50V



1.0 mm pitch	Series	FUN connector	
	Type	For FFC, Board-in connector	
	Rate (AC/DC)		

FFC/FPC CONNECTORS



1.25 mm pitch	Series	FE connector	
	Type	Snap-in type, DIP type	
	Rate (AC/DC)	Current: 1.0A	Voltage: 200V



1.25 mm pitch	Series	FFS connector	
	Type	Snap-in type, SMT type	
	Rate (AC/DC)	Current: 0.5A	Voltage: 50V



2.54 mm pitch	Series	FDZ connector	
	Type	Zero insertion force type, DIP type	
	Rate (AC/DC)	Current: Tin-plated copper foil lead/1.0A, Silver paste carbon-printed lead/50mA Voltage: 250V	

RIBBON CABLE CONNECTORS



1.0 mm pitch	Series	FCT connector	
	Type	For FFC, Board-in connector	
	Rate (AC/DC)	Current: 1.0A	Voltage: 50V



2.54 mm pitch	Series	RA connector IDC type	
	Type	IDC style	
	Rate (AC/DC)	Current: 1.0A (AWG#28)	Voltage: 300V



2.54 mm pitch	Series	RC connector	
	Type	IDC style, Board-in connector	
	Rate (AC/DC)	Current: 1.0A	Voltage: 300V

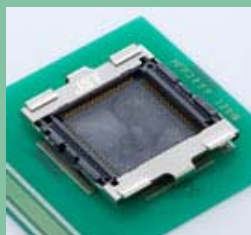


2.54 mm pitch	Series	RK header	
	Type	Matable with RA receptacle, Low-profile type	
	Rate (AC/DC)	Current: 1.0A	Voltage: 300V



2.54 mm pitch	Series	RX connector	
	Type	IDC style	
	Rate (AC/DC)	Current: 1.0A	Voltage: 300V

HEADERS/JUMPERS/COMPRESSION TYPE CONNECTORS,OTHER CONNECTORS



0.65 mm pitch	Series	MFP connector	
	Type	For flash package	
	Rate (AC/DC)	Current: 0.5A	Voltage: 50V



1.0 mm pitch	Series	MIH connector	
	Type	Compression connector	
	Rate (AC/DC)	Current: 0.5A	Voltage: 20V



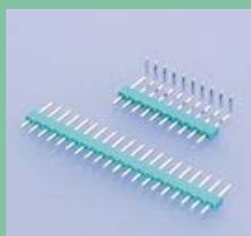
2.0 mm pitch	Series	BC header	
	Type	Header	
	Rate (AC/DC)		



2.5 mm pitch	Series	2.5SB header	
	Type	Header	
	Rate (AC/DC)	Current: 3A	Voltage: 250V



2.54 mm pitch	Series	TB header	
	Type	Header	
	Rate (AC/DC)	Current: 3A	Voltage: 250V



2.54 mm pitch	Series	2.54SB header	
	Type	Header	
	Rate (AC/DC)	Current: 3A	Voltage: 250V



2.54 mm pitch	Series	JM connector	
	Type	Jumper connector	
	Rate (AC/DC)	Current: 3A	Voltage: 250V

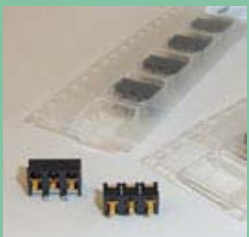
HEADERS/JUMPERS/COMPRESSION TYPE CONNECTORS,OTHER CONNECTORS



3.96 mm pitch	Series	VS header	
	Type	Header	
	Rate (AC/DC)		



	Series	AN connector	
	Type	For mobiles phones, For an antenna connection	
	Rate (AC/DC)	Current: 0.5A	Voltage: 50V



	Series	BTT connector	
	Type	For a battery, Compression connector	
	Rate (AC/DC)	Current: 2A	Voltage: 20V



	Series	DCJ connector/Large current type	
	Type	For DC jack	
	Rate (AC/DC)	Current: 6A	Voltage: 20V



	Series	PB connector	
	Type	Socket for a battery	
	Rate (AC/DC)		

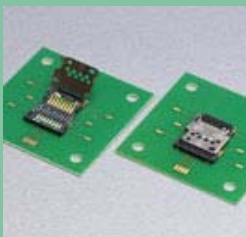
CARD CONNECTORS



1.0 mm pitch	Series	Express Card connector	
	Type	For Express Card, Module	
	Rate (AC/DC)	Current: 0.75A/line	



1.0 mm pitch	Series	Small PC card connector MB Type (socket&header)	
	Type	Socket & Ejector 68-circuit	
	Rate (AC/DC)	Current: 0.5A /line	



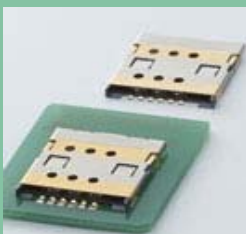
1.1 mm pitch	Series	SDHK Connector	
	Type	For Micro SD card	
	Rate (AC/DC)	Current: 0.5A	Voltage: 15V



1.27 mm pitch	Series	CF Card connector MA type (Socket&Header)	
	Type	For CF cards, Socket & Ejector	
	Rate (AC/DC)	Current: 0.5A/line	



1.27 mm pitch	Series	CFF connector	
	Type	,	
	Rate (AC/DC)		



1.52 mm pitch	Series	SCR connector	
	Type	For SIM/UIM card, For mobile phones, I/O connector	
	Rate (AC/DC)	Current: 0.7A	Voltage: 30V



2.54 mm pitch	Series	SCK connector	
	Type	For SIM/UIM card	
	Rate (AC/DC)	Current: 1.0A	Voltage: 30V

CARD CONNECTORS



	Series	CF card connector MA type (Adapter)	
	Type	Adapter card, Conversion into cards for PCMCIA/JEIDA Ver. 4.1 slot	
	Rate (AC/DC)		



	Series	CF Card connector MA type (Ejector)	
	Type	For CF cards, Ejector	
	Rate (AC/DC)		



	Series	CF Card connector MA type (Frame)	
	Type	For CF cards, Frame kit	
	Rate (AC/DC)		



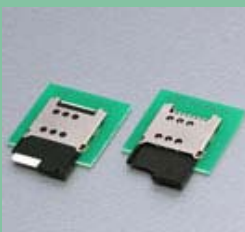
	Series	PC Card connector C type (Ejector/ Header with ejector)	
	Type	Ejector 68-circuit	
	Rate (AC/DC)		



	Series	PC Card connector C type (Socket & Header)	
	Type	Socket & Ejector 68-circuit	
	Rate (AC/DC)	Current: 0.5A/line	

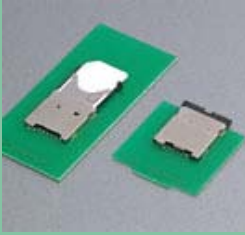


	Series	SCRL connector	
	Type	For SIM cards	
	Rate (AC/DC)	Current: 0.7A	Voltage: 30V



	Series	SCRT connector	
	Type	For SIM cards	
	Rate (AC/DC)	Current: 0.7A	Voltage: 30V

CARD CONNECTORS



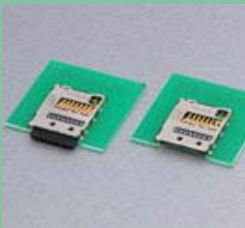
	Series	SCYT connector	
	Type	,	
	Rate (AC/DC)	Current: 0.7A	Voltage: 30V



	Series	SD connector	
	Type	For SD card	
	Rate (AC/DC)	Current: 0.5A	Voltage: 5V



	Series	SDHL connector	
	Type	For Micro SD card	
	Rate (AC/DC)	Current: 0.5A	Voltage: 100V



	Series	SDHR connector	
	Type	For Micro SD card	
	Rate (AC/DC)	Current: 0.5A	Voltage: 100V



	Series	SDK connector	
	Type	For SD card	
	Rate (AC/DC)	Current: 0.5A	Voltage: 5V



	Series	SDK connector (Reverse type)	
	Type	For SD card	
	Rate (AC/DC)	Current: 0.5A	Voltage: 5V



	Series	Small PC card connector MB type (Ejector)	
	Type	Ejector 68-circuit	
	Rate (AC/DC)	Current: 0.7A	Voltage: 30V

COAXIAL OR OPTICAL FIBER CONNECTORS



	Series	AYU1 connector
	Type	Coaxial connector, Compact type, Low-profile type
	Rate (AC/DC)	

INTERFACE CONNECTION CONNECTORS



0.8 mm pitch	Series	MUF connector
	Type	Shielded interface connector
	Rate (AC/DC)	Current: 1.0A Voltage: 30V



1.27 mm pitch	Series	CIF connector
	Type	,
	Rate (AC/DC)	Current: 0.5A Voltage: 30V



	Series	Dsub connector J series
	Type	Rectangular connector
	Rate (AC/DC)	Current: 3A Voltage: 250V



	Series	Dsub connector JH series
	Type	Rectangular connector, Space saving mountable
	Rate (AC/DC)	Current: 1.0A Voltage: 250V



	Series	Dsub connector JK series
	Type	Rectangular connector, High-density mountable type
	Rate (AC/DC)	Current: 1.0A Voltage: 250V



	Series	Dsub connector JS series
	Type	Rectangular connector, SMT type
	Rate (AC/DC)	Current: 1.0A Voltage: 125V



	Series	Dsub connector KH series
	Type	Rectangular connector, High-density mountable type, Space saving mountable
	Rate (AC/DC)	Current: 1.0A Voltage: 250V

INTERFACE CONNECTION CONNECTORS



	Series	Dsub connector KS series	
	Type	Rectangular connector, High-density mountable type, SMT type	
	Rate (AC/DC)	Current: 1.0A	Voltage: 125V



	Series	EP connector	
	Type	For 4-circuit plug	
	Rate (AC/DC)	Current: 2A	Voltage: 30V



	Series	MD connector	
	Type	Circular connector	
	Rate (AC/DC)	Current: 1.0A (AWG#26)	Voltage: 50V



0.8 mm pitch	Series	MD connector SMT type	
	Type	Circular connector, SMT type	
	Rate (AC/DC)	Current: 1.0A	Voltage: 125V



	Series	MJ connector	
	Type	Modular Jack connector	
	Rate (AC/DC)	Current: 1.3A	Voltage: 250V



	Series	MJ connector 8-circuits type	
	Type	Modular Jack connector	
	Rate (AC/DC)	Current: 1.3A	Voltage: 250V



1.25 mm pitch	Series	MMJ connector	
	Type	Sealed, Modular Jack connector	
	Rate (AC/DC)	Current: 1.3A	Voltage: 250V

INTERFACE CONNECTION CONNECTORS



Series	MS connector	
Type	,	
Rate (AC/DC)	Current: 1.0A	Voltage: 250V



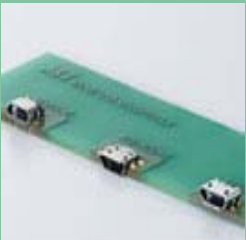
Series	MV connector	
Type	For high-speed transmission, Serial interface	
Rate (AC/DC)	Current: Signal circuit 1.0A/line Power supply circuit 3.0A/line Voltage: 30V	



Series	RV connector	
Type	For high-speed transmission, Serial interface	
Rate (AC/DC)	Current: 0.3A	Voltage: 30V



Series	UB connector	
Type	Conformed to USB standard	
Rate (AC/DC)	Current: 1.0A/line	Voltage: 30V



Series	UB connector Micro USB	
Type	Conformed to Micro USB standard	
Rate (AC/DC)	* Only signal line Signal line (No. 2 to 4-circuit)/1.0A/line *Power supply line Power supply line((No. 1,5-circuit)/1.8A/Line Signal line (No. 2 to 4-circuit)/0.5A/Line	



Series	UB connector Micro USB (Waterproof)	
Type	Conformed to USB standard	
Rate (AC/DC)	* Only signal line Signal line (No. 2 to 4-circuit)/1.0A/line *Power supply line Power supply line((No. 1,5-circuit)/1.8A/Line Signal line (No. 2 to 4-circuit)/0.5A/Line	



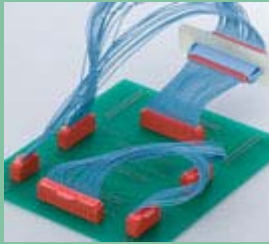
Series	UB connector mini B-type	
Type	Conformed to USB standard	
Rate (AC/DC)	Current: 1.0A	Voltage: 30V

INTERFACE CONNECTION CONNECTORS

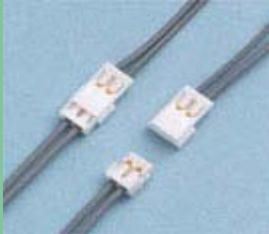


	Series	UB3 connector
	Type	Conformed to USB standard
	Rate (AC/DC)	VBUS & GND circuits (No. 1 & 4 circuits)/ 1.8A Current: Voltage: 30V Other circuits (No. 2, 3, 5 to 9 circuits)/ 0.25A

WIRE TO WIRE CRIMP STYLE CONNECTORS



1.0 mm pitch	Series	TCS connector	
	Type	With secure locking device	
	Rate (AC/DC)	Current: 2A (AWG#26)	Voltage: 50V



1.2 mm pitch	Series	ACH connector (W to W)	
	Type	Crimp style, With locking device	
	Rate (AC/DC)	Current: 2A	Voltage: 50V



1.5 mm pitch	Series	TZ/TZW connector	
	Type	Convertible unit into W to W connection, Matable with CZ receptacle, With panele locking device	
	Rate (AC/DC)	Current: 2A (AWG#26)	Voltage: 100V



1.5 mm pitch	Series	ZM connector	
	Type	Crimp style	
	Rate (AC/DC)	Current: MAX 0.7A (AWG#28)	Voltage: MAX 50V



2.0 mm pitch	Series	JWPF connector (W to W)	
	Type	Crimp style, Waterproof connector	
	Rate (AC/DC)	Current: 3A (AWG#22)	Voltage: 100V



2.0 mm pitch	Series	PAL connector	
	Type	Crimp style, With secure locking device	
	Rate (AC/DC)	Current: 3A (AWG#22)	Voltage: 100V



2.0 mm pitch	Series	PNI connector (W to W)	
	Type	Crimp style, With secure locking device, Inertial lock structure	
	Rate (AC/DC)	Current: 3A (AWG#22)	Voltage: 100V

WIRE TO WIRE CRIMP STYLE CONNECTORS



2.0 mm pitch	Series	TR/TRW connector	
	Type	Crimp style, With panele locking device	
	Rate (AC/DC)	Current: 1.0A (AWG#26)	Voltage: 100V



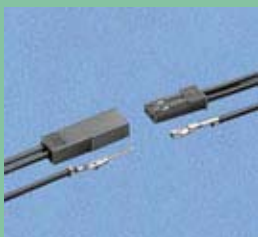
2.2 mm pitch	Series	JFA connector J1000 Series (W to W)	
	Type	Crimp style	
	Rate (AC/DC)	Current: 6.2A (3 circuits/AWG#18)	Voltage: 125V



2.5 mm pitch	Series	HM connector	
	Type	Maitable with crimp style/IDC style HR receptacle	
	Rate (AC/DC)	Current: IDC HR/MAX 2A, Crimp style HR/MAX 3A	Voltage: MAX 250V



2.5 mm pitch	Series	JFA connector J2000 Series (W to W)	
	Type	Crimp style	
	Rate (AC/DC)	Current: MAX 4.3A (6 circuits/AWG#20)	Voltage:250V



2.5 mm pitch	Series	RCY connector	
	Type	Crimp style, With locking device	
	Rate (AC/DC)	Current: MAX 3A	Voltage:MAX 250V



2.5 mm pitch	Series	SM connector	
	Type	Crimp style, With locking device	
	Rate (AC/DC)	Current: MAX 3A	Voltage: MAX 250V



2.5 mm pitch	Series	THR connector	
	Type	Matable with HR receptacle	
	Rate (AC/DC)	Current: IDC HR/MAX 2A - Crimp style HR/MAX 3A	Voltage:MAX 250V

WIRE TO WIRE CRIMP STYLE CONNECTORS



2.5 mm pitch	Series	XA connector (W to W)	
	Type	Crimp style, With secure locking device	
	Rate (AC/DC)	Current: MAX 3A (AWG#20)	Voltage:MAX 250V



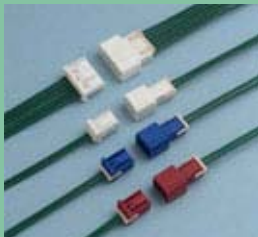
2.5 mm pitch	Series	XAD connector (W to W)	
	Type	XAD connector (W to W)	
	Rate (AC/DC)	Current: MAX 3A (AWG#20)	Voltage:MAX 250V



2.5 mm pitch	Series	XAG connector (W to W)	
	Type	With secure locking device	
	Rate (AC/DC)	Current: MAX 3A (AWG#20)	Voltage:MAX 250V



2.5 mm pitch	Series	XM connector (W to W)	
	Type	Crimp style, With inner type secure locking device	
	Rate (AC/DC)	Current: MAX 3A	Voltage:MAX 250V



2.5 mm pitch	Series	XMA connector	
	Type	Crimp style, With locking device	
	Rate (AC/DC)	Current: 3A (AWG#22)	Voltage:250V



3.3 mm pitch	Series	HIL connector	
	Type	Crimp style, With inertia force mechanism with secure locking device	
	Rate (AC/DC)	Current: 5A (2 circuits/AWG#18)	Voltage:300V



3.5 mm pitch	Series	BHS connector (W to W)	
	Type	For LCD back light lamps, Compact type	
	Rate (AC/DC)	Current: 1.0A	Voltage: 1400V

WIRE TO WIRE CRIMP STYLE CONNECTORS



3.81 mm pitch	Series	JFA connector J300 series	
	Type	Crimp style	
	Rate (AC/DC)	Current:15A (Single circuit/AWG#14) Voltage:250V	



3.96 mm pitch	Series	BL connector	
	Type	Crimp style, For short-circuit connection	
	Rate (AC/DC)	Current: MAX 7A/line	Voltage: MAX 300V



3.96 mm pitch	Series	HL connector (W to W)	
	Type	Crimp style, With inner type secure locking device	
	Rate (AC/DC)	Current:MAX 7A	Voltage:MAX 300V



3.96 mm pitch	Series	SL connector	
	Type	Crimp style, With inner type secure locking device	
	Rate (AC/DC)	Current:MAX 7A	Voltage:MAX 300V



4.0 mm pitch	Series	BHM connector (4.0mm pitch, W to W)	
	Type	For LCD back light lamps	
	Rate (AC/DC)	Current: 1.0A	Voltage: 600V



4.0 mm pitch	Series	JWPS connector (W to W)	
	Type	Crimp style, Waterproof connector	
	Rate (AC/DC)	4A (AWG#22)-5A(AWG#20)-6A (AWG#18) VOLTAGE: 300V	



4.5 mm pitch	Series	EL connector	
	Type	Crimp style, With locking device	
	Rate (AC/DC)	Current:MAX 10A	Voltage:MAX 300V

WIRE TO WIRE CRIMP STYLE CONNECTORS



4.5 mm pitch	Series	YL connector	
	Type	Crimp style, With inner type secure locking device	
	Rate (AC/DC)	Current: MAX 10A (7A when retainers are mounted)	Voltage: MAX 300



4.5 mm pitch	Series	YLN connector	
	Type	Crimp style, With inertia force mechanism with secure locking device	
	Rate (AC/DC)	Current: MAX 10A (7A when retainers are mounted)	Voltage: MAX 300V



5.0 mm pitch	Series	WPJ connector (W to W)	
	Type	Crimp style, Waterproof connector	
	Rate (AC/DC)	Current: 7A (AWG#18)	Voltage: 300V



5.0 mm pitch	Series	XL connector (W to W)	
	Type	Crimp style, With locking device	
	Rate (AC/DC)	Current: MAX 10A	Voltage: MAX 300V



5.0 mm pitch	Series	ZL connector	
	Type	Crimp style, With locking device	
	Rate (AC/DC)	Current: MAX 10A	Voltage: MAX 300V

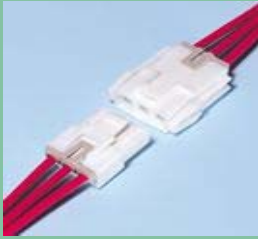


5.08 mm pitch	Series	JFA connector J300 series	
	Type	Crimp style	
	Rate (AC/DC)	Current: 15A (Single circuit/AWG#14)	Voltage: 600V



5.1 mm pitch	Series	BHT connector (W to W)	
	Type	For LCD back light lamps	
	Rate (AC/DC)	Current: 1.0A	Voltage: 1500V

WIRE TO WIRE CRIMP STYLE CONNECTORS



6.2 mm pitch	Series	VL connector (W to W)	
	Type	Crimp style, With inner type secure locking device	
	Rate (AC/DC)	Current: MAX 20A	Voltage: MAX 600V



7.0 mm pitch	Series	MWP connector	
	Type	Crimp style, Waterproof connector	
	Rate (AC/DC)	Current: MAX 7A	Voltage: MAX 300V



8.0 mm pitch	Series	BHM connector (8.0mm pitch, W to W)	
	Type	For LCD back light lamps	
	Rate (AC/DC)	Current: 1.0A	Voltage: 600V



11.0 mm pitch	Series	JFA connector J5000 series (W to W)	
	Type	Crimp style	
	Rate (AC/DC)	Current: 50A (Single circuit/AWG#8) Voltage: 600V	



	Series	CL connector	
	Type	IDC style, Branch/Short-circuit connection	
	Rate (AC/DC)	Current: MAX 17A (CL-2218T, CL-2218S) MAX 15A (CL-1814T, CL-1814S) Voltage: 300V	



	Series	DAC connector (W to W)	
	Type	I/O connector, Hybrid connector	
	Rate (AC/DC)	Current: Signal circuit/1.5A(AWG#27, #26) Power supply circuit/6A(AWG#18)	



	Series	OTZ connector	
	Type	I/O connector, Hybrid connector	
	Rate (AC/DC)	Current: Signal circuit/1.0A(AWG#26) Power supply circuit/5A(AWG#20)	

WIRE TO WIRE CRIMP STYLE CONNECTORS



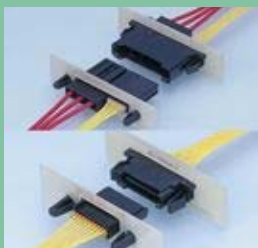
Series	RFC connector (W to W)	
Type	I/O connector, Drawer connector	
Rate (AC/DC)	Signal circuit/1.0A(AWG#27,#26) Power supply circuit/15A(AWG#14)	



Series	RIC connector	
Type	Drawer connector, Double-row	
Rate (AC/DC)	Current: Signal circuit/1.0A Power supply/15A (AWG#14) Volatage: Signal/50V Power supply circuit/250v	



Series	RIJ connector	
Type	Drawer connector, Double-row	
Rate (AC/DC)	Current: Signal circuit/2A Power supply/15A (AWG#14) Voltage: Signal circuit/50V Power supply circuit/250V	



Series	RIZ connector	
Type	Drawer connector, Single-row	
Rate (AC/DC)	Current: Signal circuit/1A Power supply/15A (AWG#14) Voltage: Signal circuit/50V Power supply circuit/250V	



Series	RIZ connector L-Type	
Type	Drawer connector, Single-row	
Rate (AC/DC)	Current: Signal circuit/1A Power supply/15A (AWG#14) Voltage: Signal circuit/50V Power supply circuit/250V	

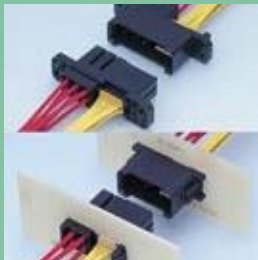


Series	RPJ connector	
Type	For rack & panel, Compact type	
Rate (AC/DC)	Current: 2A (AWG#24)	Voltage: 250V



Series	RPZ connector	
Type	I/O connector, Drawer connector	
Rate (AC/DC)	Current: Signal circuit/1.0A Power supply circuit/15A Signal circuit/50V Power supply circuit/250V	

WIRE TO WIRE CRIMP STYLE CONNECTORS



Series	RWZ connector	
Type	Drawer connector, Double-row	
Rate (AC/DC)	Current: Signal circuit/1.0A Power supply circuit/15A(AWG14) Voltage: Power supply circuit/250v	



Series	RWZ connector (L-type)	
Type	Drawer connector, Double-row	
Rate (AC/DC)	Current: Signal circuit/1.0A Power supply circuit/15A(AWG14) Voltage: Power supply circuit/250v	



Series	TSD connector	
Type	I/O connector, Drawer connector	
Rate (AC/DC)	Current: 2A (AWG#24) Voltage: Signal circuit/30v Power supply circuit/300V	



Series	WPK connector	
Type	Crimp style, Waterproof connector	
Rate (AC/DC)	Current:7A(0.85 sq mm)	Voltage:12V

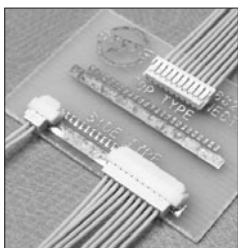
COMPATIBLE WITH GLOW WIRE TEST



2.5 mm pitch	Series	XA connector (W to B, Compatible with glow wire test)	
	Type	Disconnectable type, Crimp style, With secure locking device	
	Rate (AC/DC)	Current: 3A (AWG#22,#20)	Voltage: 250V

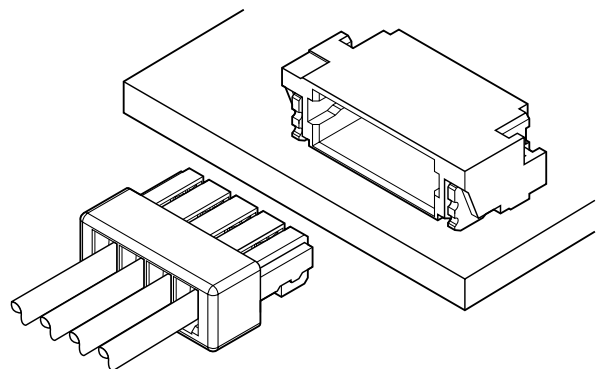


2.5 mm pitch	Series	XA connector (W to W, Compatible with glow wire test)	
	Type	Crimp style, With secure locking device	
	Rate (AC/DC)	Current: 3A (AWG#20)	Voltage: MAX 250V



SUH CONNECTOR

0.8mm pitch/Disconnectable Crimp style connectors



This SUH connector is developed for crimping type SUR connector that has been designed for 0.8mm pitch wire-to-board insulation displacement connector. This connector adopted the first crimping method in a minimum 0.8mm pitch of the wire-to-board type connector. Housing lance method provides the good workability and a constriction contact method provides the excellent contact reliability.

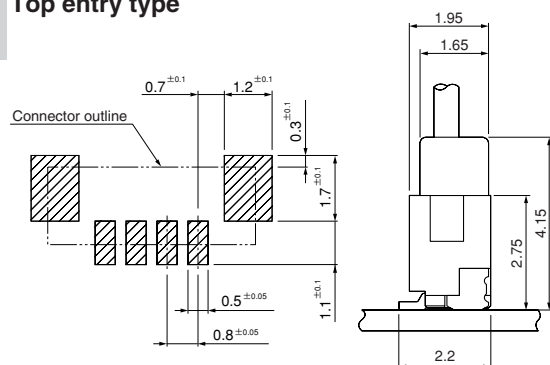
- **SUR header in common use**
- **Current rating 1.0A**
- **Miniaturization**

Specifications

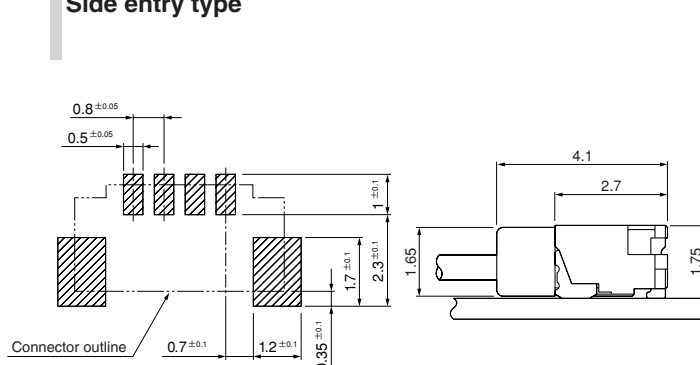
- Current rating: 1.0 A AC, DC (AWG #28)
- Voltage rating: 30 V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 30 mΩ max.
After environmental tests/ 50 mΩ max.
- Insulation resistance: 100 MΩ min.
- Withstanding voltage: 200 VAC/minute
- Applicable wire: Conductor size/ AWG #32 to #28
Insulation O.D./ 0.5 to 0.6 mm

- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Compliant with RoHS.

Top entry type

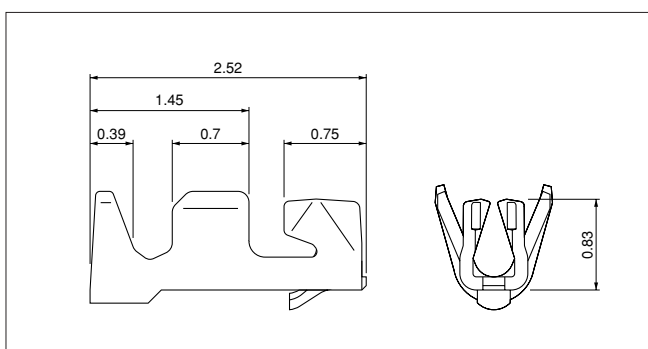


Side entry type



Note: 1. The above figure is the figure viewed from the connector mounting side.
2. Tolerances are non-cumulative: ± 0.03 mm for all centers.
The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire			Q'ty / reel
	mm ²	AWG#	Insulation O.D. (mm)	
SSUH-003T-P0.15	0.032~0.08	32~28	0.5~0.6	45,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

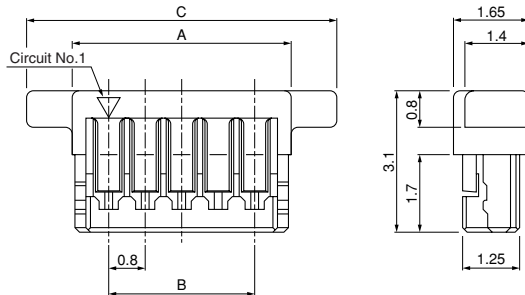
RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SSUH-003T-P0.15	AP-K2N	MKS-L-10-4	MK/SSUH-003-015	APLMK SSUH003-015
		—	—	—

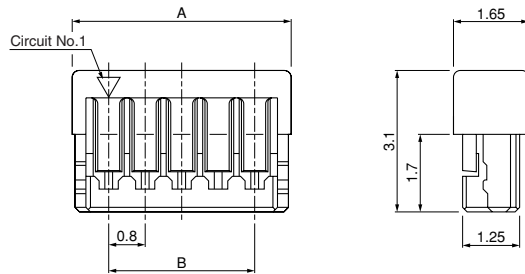
SUH CONNECTOR

Housing

With protrusions



Without protrusions



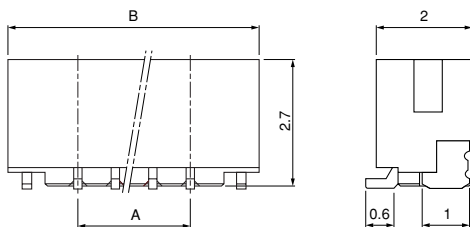
Circuits	Model No.		Dimensions (mm)			Q'ty / box
	With protrusions	Without protrusions	A	B	C	
2	SUHR-02V-S-B	SUHR-02V-S	2.4	0.8	4.4	2,000
3	SUHR-03V-S-B	SUHR-03V-S	3.2	1.6	5.2	2,000
4	SUHR-04V-S-B	SUHR-04V-S	4.0	2.4	6.0	2,000
5	SUHR-05V-S-B	SUHR-05V-S	4.8	3.2	6.8	2,000
6	SUHR-06V-S-B	SUHR-06V-S	5.6	4.0	7.6	2,000
10	SUHR-10V-S-B	SUHR-10V-S	8.8	7.2	10.8	1,000
12	SUHR-12V-S-B	SUHR-12V-S	10.4	8.8	12.4	1,000
14	SUHR-14V-S-B	SUHR-14V-S	12.0	10.4	14.0	1,000
16	SUHR-16V-S-B	SUHR-16V-S	13.6	12.0	15.6	1,000
20	SUHR-20V-S-B	SUHR-20V-S	16.8	15.2	18.8	1,000
Material						

LCP, UL94V-0, natural

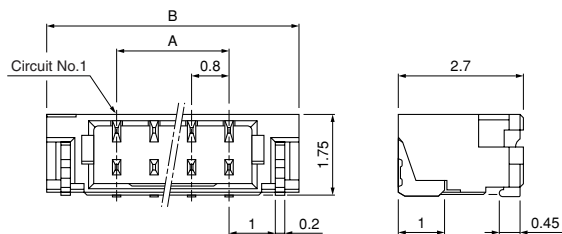
RoHS compliance

Shrouded header

Top entry type



Side entry type



Circuits	Model No.		Dimensions (mm)		Q'ty / reel	
	Top entry type	Side entry type	A	B	Top type	Side type
2	BM02B-SURS-TF	SM02B-SURS-TF	0.8	3.8	2,500	3,500
3	BM03B-SURS-TF	SM03B-SURS-TF	1.6	4.6	2,500	3,500
4	BM04B-SURS-TF	SM04B-SURS-TF	2.4	5.4	2,500	3,500
5	—	SM05B-SURS-TF	3.2	6.2	—	3,500
6	—	SM06B-SURS-TF	4.0	7.0	—	3,500
10	BM10B-SURS-TF	SM10B-SURS-TF	7.2	10.2	2,500	3,500
12	BM12B-SURS-TF	SM12B-SURS-TF	8.8	11.8	2,500	3,500
14	—	SM14B-SURS-TF	10.4	13.4	—	3,500
16	—	SM16B-SURS-TF	12.0	15.0	—	3,500
20	BM20B-SURS-TF	SM20B-SURS-TF	15.2	18.2	2,500	3,500

Material and Finish

Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

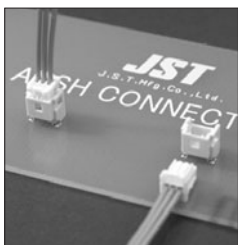
Wafer: PA, UL94V-0, natural

Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance

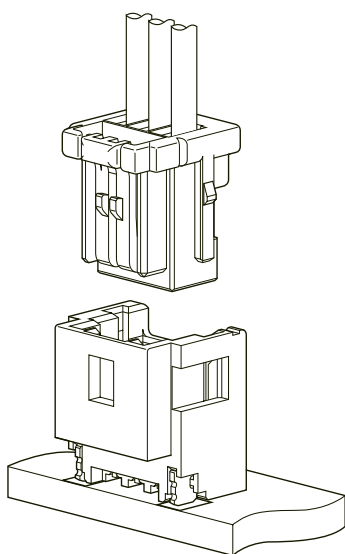
This product displays (LF)(SN) on a label.

Note: The products listed above are supplied on embossed-tape.



APSH CONNECTOR

1.0mm pitch/Disconnectable Crimp style connectors



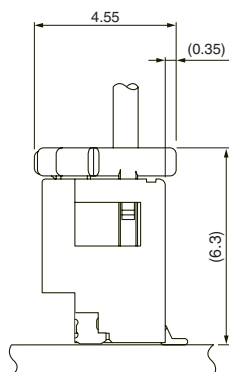
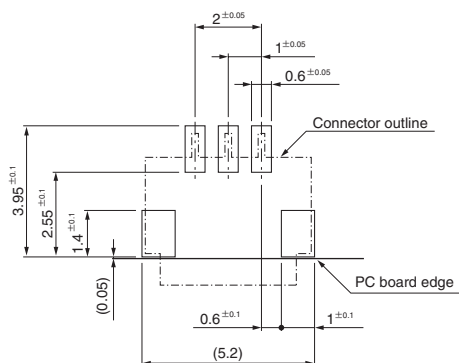
While realizing the space saving, this is the connector having the secure lock structure. By this, it is prevented the housing coming off by handling the wires or adding the vibration. This connector is very small, and it is possible to suppress the inverted insertion and achieves a clear insertion feeling.

- **Space saving design**
- **Secure locking structure**
- **Mechanism for preventing the inverted insertion**

Specifications

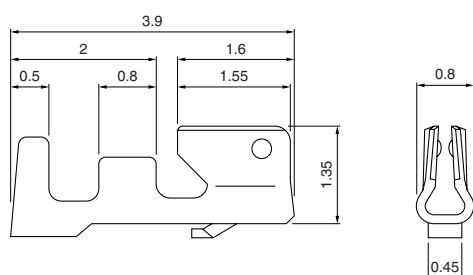
- Current rating: 1.0 A AC, DC (AWG #28)
- Voltage rating: 50 V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 20 mΩ max.
After environmental tests/ 40 mΩ max.
- Insulation resistance: 100 MΩ min.
- Withstanding voltage: 500 VAC/minute
- Applicable wire: Conductor size/ AWG #32 to #28
Insulation O.D./ 0.4 to 0.8 mm

- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Compliant with RoHS.



Note: 1. The above figure is the figure viewed from the connector mounting side.
2. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SSH-003T-P0.2-H	0.032~0.08	32~28	0.4~0.8	23,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

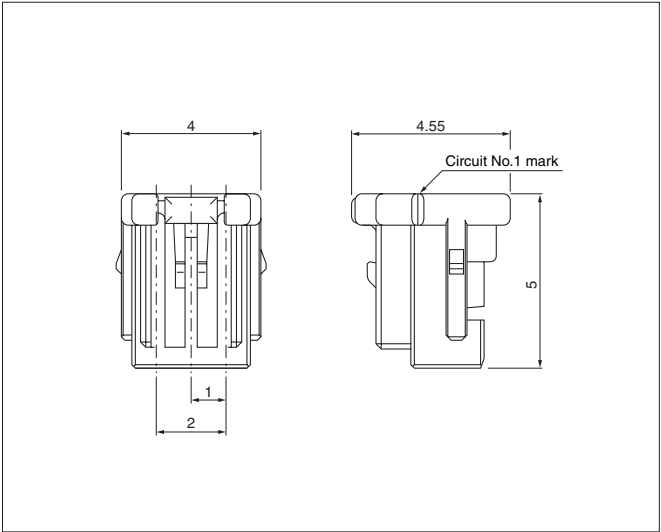
RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SSH-003T-P0.2-H	AP-K2N	MKS-L-10-3	MK/SSH/L-003-02	APLMK SSH/L003-02
		*MKS-SC	SC/SSH/L-003-02	APLSC SSH/L003-02

Note: *Strip-crimp applicator

APSH CONNECTOR

Housing



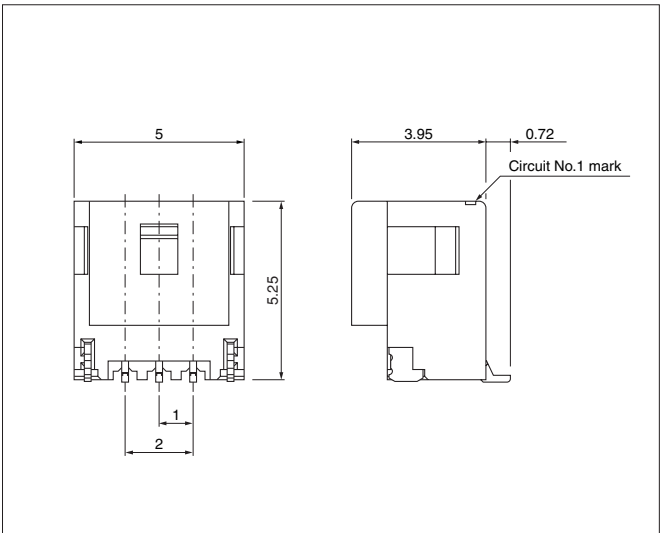
Circuits	Model No.	Q'ty / box
3	APSHR-03V-S	1,000
Material		
Glass-filled PBT, UL94V-0, natural		

RoHS compliance

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **APSHR-03V-S**
S...natural K...black E...blue TR...tomato red L...lemon yellow

Header

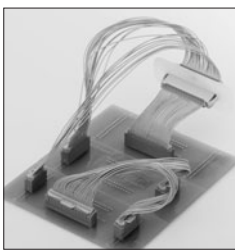


Circuits	Model No.	Q'ty / reel
3	BM03B-APSHSS-ETFT	1,800
Material and Finish		
Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Wafer: PA 9T, UL94V-0, natural Solder tab: Copper-alloy, copper-undercoated, tin-plated (reflow treatment)		

RoHS compliance This product displays (LF)(SN) on a label.
Note: The product listed above are supplied on embossed-tape.

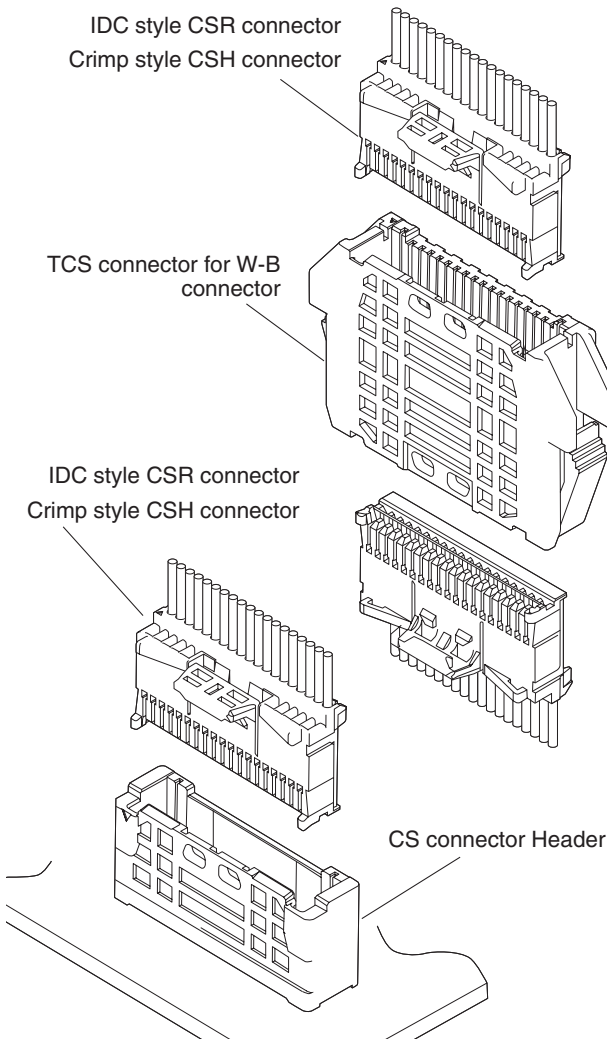
<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **BM03B-APSHSS-ETFT**
S...natural K...black E...blue TR...tomato red L...lemon yellow



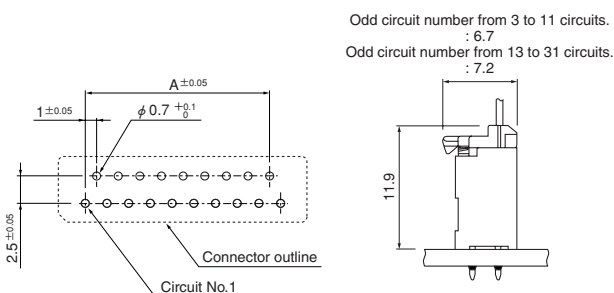
CS FAMILY SERIES / CSR·CSH·CS·TCS CONNECTOR

1.0mm pitch/Disconnectable Insulation displacement and Crimp style connectors



This is a 1.0mm pitch insulation displacement connector with the secure locking structure to prevent coming off the connector and incomplete mating. 1.8A in rated current was realized by using AWG#27. The various wide usage can be provided, since multi-IDC-harnesses by automatic IDC machine, crimping type, and header for wire to wire connection are available.

CS connector



Note: 1. The above figure is the figure viewed from the connector mounting side.
2. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
3. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

CS connector

- **Secure locking structure**
- **Realization of multi-circuits by low insertion force**
- **Countermeasure for unexpected prying insertion**

CSH connector

- **Housing lances**
- **Interchangeability**
- **Realized current rating of 2A with AWG#26**

TCS connector

- **Secure locking structure**
- **Countermeasure for unexpected prying insertion**

Standards

Recognized E60389

Certified LR20812

Specifications

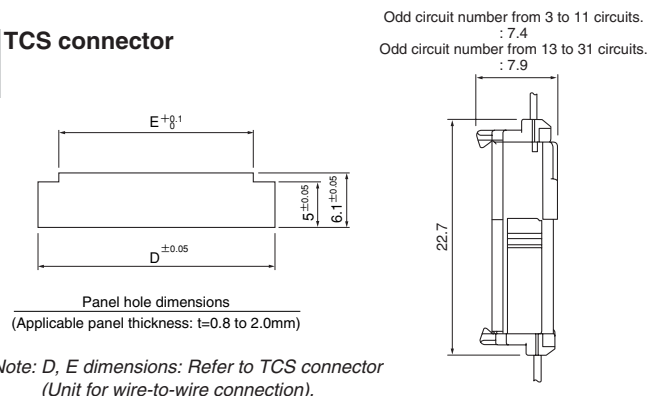
	CSR・CS connector	CSH・CS connector	TCS connector
Current rating	1.8A(AWG#27)	2A(AWG#26)	
Voltage rating	50V AC・DC		
Temperature rise	-25°C to +85°C (including temperature rise)		
Contact resistance	Initial value / 15mΩ max. After environmental testing / 30mΩ max.		Initial value / 25mΩ max. After environmental testing / 50mΩ max.
Insulation resistance	500MΩ min.		
Withstanding voltage	500V AC/minute		
Applicable wire	UL11079, UL3619, UL3855, UL11030 AWG#27・#28 Conductor / 7-strands, tincoated annealed copper Insulation O.D. / 0.65 to 0.73mm (Contact JST for details.)	AWG#30 to #26 Insulation O.D. / 0.6 to 0.8mm	
Applicable PC board thickness	1.6mm	1.6mm	—
Applicable panel thickness	—	—	0.8 to 2.0mm

* Compliant with RoHS.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

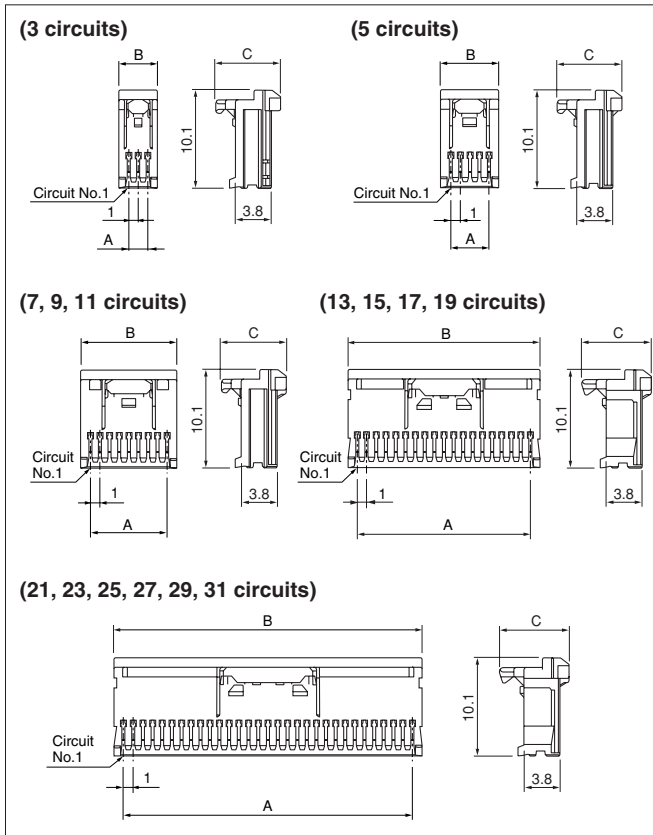
TCS connector



Note: D, E dimensions: Refer to TCS connector (Unit for wire-to-wire connection).

CS FAMILY SERIES / CSR·CSH·CS·TCS CONNECTOR

CSR connector socket



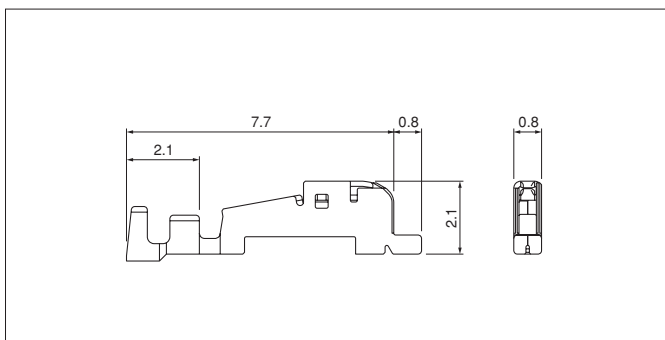
Circuits	Model No.	Dimensions (mm)			Q'ty / box
		A	B	C	
3	03CSR-8PK	2.0	4.0	6.7	13,500
5	05CSR-8PK	4.0	6.0		9,000
7	07CSR-8PK	6.0	8.0		6,660
9	09CSR-8PK	8.0	10.0		5,400
11	11CSR-8PK	10.0	12.0		4,500
13	13CSR-8PK	12.0	14.0	7.2	3,780
15	15CSR-8PK	14.0	16.0		3,240
17	17CSR-8PK	16.0	18.0		2,880
19	19CSR-8PK	18.0	20.0		2,700
21	21CSR-8PK	20.0	22.0		2,340
23	23CSR-8PK	22.0	24.0		2,160
25	25CSR-8PK	24.0	26.0		1,980
27	27CSR-8PK	26.0	28.0		1,800
29	29CSR-8PK	28.0	30.0		1,800
31	31CSR-8PK	30.0	32.0		1,620

Material and Finish

Contact: Copper alloy, tin-plated
Housing: PBT, UL94V-0, pink

RoHS compliance

CSH connector contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SCSH-002T-P0.2N	0.05 to 0.13	30 to 26	0.6 to 0.8	12,000

Material and Finish

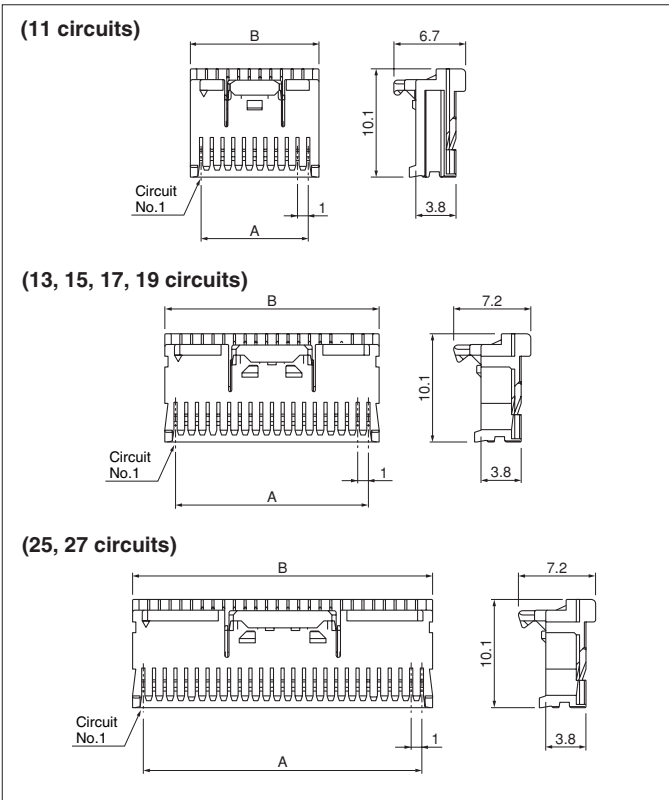
Copper alloy, tin-plated

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SCSH-002T-P0.2N	AP-K2N	MKS-L-10-3	MK/SCSH-002-02	APLMK SCSH002-02
		—	—	—

CS FAMILY SERIES / CSR·CSH·CS·TCS CONNECTOR

CSH connector housing



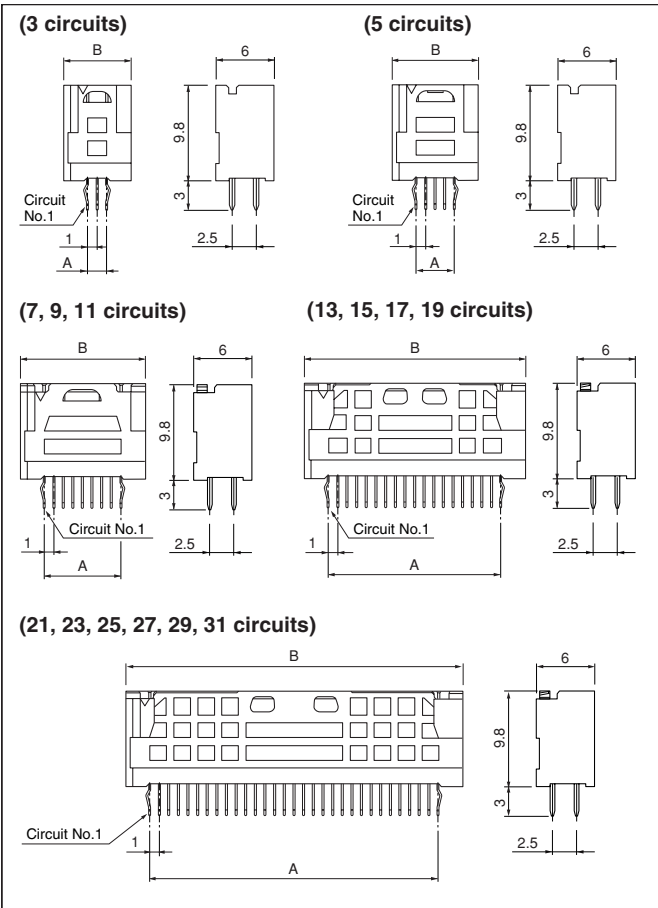
Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
11	CSH-11-PK-N	10.0	12.0	1,000
13	CSH-13-PK-N	12.0	14.0	1,000
15	CSH-15-PK-N	14.0	16.0	1,000
17	CSH-17-PK-N	16.0	18.0	500
19	CSH-19-PK-N	18.0	20.0	500
25	CSH-25-PK-N	24.0	26.0	500
27	CSH-27-PK-N	26.0	28.0	500

Material

Housing: PBT, UL94V-0, pink

RoHS compliance

CS connector through-hole type shrouded header



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
3	B03B-CSRK	2.0	7.0	10,800
5	B05B-CSRK	4.0	9.0	7,920
7	B07B-CSRK	6.0	11.0	6,480
9	B09B-CSRK	8.0	13.0	5,520
11	B11B-CSRK	10.0	15.0	4,800
13	B13B-CSRK	12.0	17.0	4,080
15	B15B-CSRK	14.0	19.0	3,600
17	B17B-CSRK	16.0	21.0	3,360
19	B19B-CSRK	18.0	23.0	3,120
21	B21B-CSRK	20.0	25.0	2,880
23	B23B-CSRK	22.0	27.0	2,640
25	B25B-CSRK	24.0	29.0	2,400
27	B27B-CSRK	26.0	31.0	2,160
29	B29B-CSRK	28.0	33.0	2,160
31	B31B-CSRK	30.0	35.0	1,920

Material and Finish

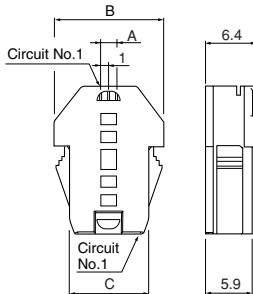
Housing: Glass-filled PA 66, UL94V-0, red
Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

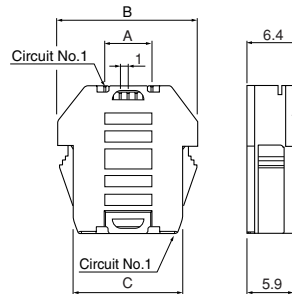
CS FAMILY SERIES / CSR·CSH·CS·TCS CONNECTOR

TCS connector (Unit for wire-to-wire connection)

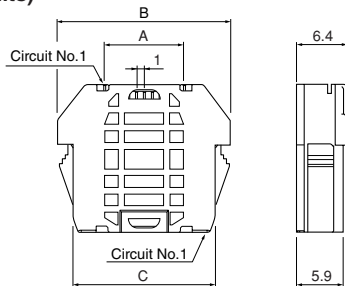
(3 circuits)



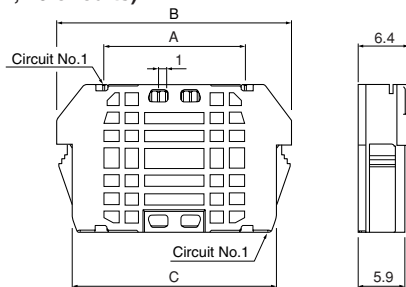
(5, 7 circuits)



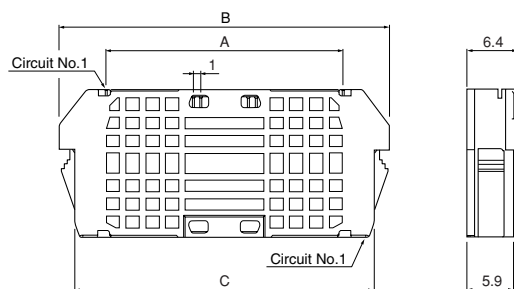
(9, 11 circuits)



(13, 15, 17, 19 circuits)



(21, 23, 25, 27, 29, 31 circuits)



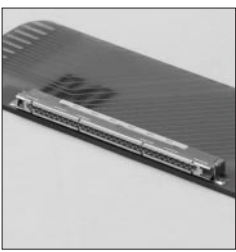
Circuits	Model No.	Dimensions (mm)						Q'ty / box
		A	B	C	D		E	
3	BU03P-TCS-LE	2.0	13.8	10.0	10.7	11.0	6.2	300
5	BU05P-TCS-LE	4.0	15.8	12.0	12.7	13.0	8.2	250
7	BU07P-TCS-LE	6.0	17.8	14.0	14.7	15.0	10.2	250
9	BU09P-TCS-LE	8.0	19.8	16.0	16.7	17.0	12.2	250
11	BU11P-TCS-LE	10.0	21.8	18.0	18.7	19.0	14.2	200
13	BU13P-TCS-LE	12.0	23.8	20.0	20.7	21.0	16.2	200
15	BU15P-TCS-LE	14.0	25.8	22.0	22.7	23.0	18.2	150
17	BU17P-TCS-LE	16.0	27.8	24.0	24.7	25.0	20.2	150
19	BU19P-TCS-LE	18.0	29.8	26.0	26.7	27.0	22.2	150
21	BU21P-TCS-LE	20.0	31.8	28.0	28.7	29.0	24.2	100
23	BU23P-TCS-LE	22.0	33.8	30.0	30.7	31.0	26.2	100
25	BU25P-TCS-LE	24.0	35.8	32.0	32.7	33.0	28.2	100
27	BU27P-TCS-LE	26.0	37.8	34.0	34.7	35.0	30.2	100
29	BU29P-TCS-LE	28.0	39.8	36.0	36.7	37.0	32.2	100
31	BU31P-TCS-LE	30.0	41.8	38.0	38.7	39.0	34.2	100

Material and Finish

Housing: PBT, UL94V-0, light blue

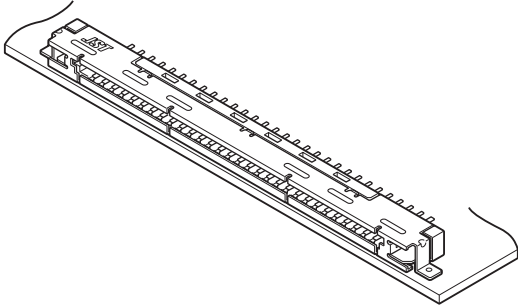
Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.



LD-Y CONNECTOR RECEPTACLE

1.0mm pitch



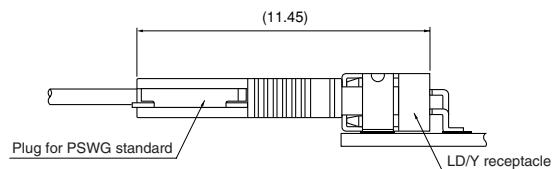
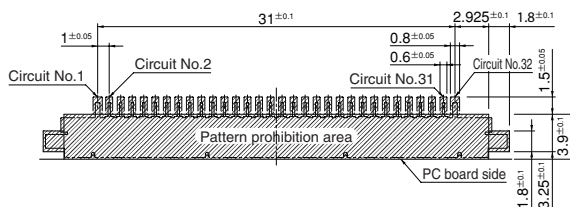
This wire-to-board connector is designed for Internal I/O port in LCD Monitor/TV, and is with secure locking device that prevents the connector from coming off by wiring operation and/or vibration.

- Impedance matching corresponding to high speed differential transmission
- Metal lock structure
- With metal shell

Specifications

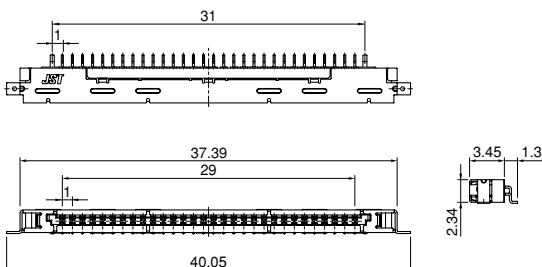
- Current rating: 0.3A AC, DC
- Voltage rating: 200V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/40m Ω max.
After environmental testing/80m Ω max.
- Insulation resistance: Initial value/100M Ω min.
After environmental testing/50M Ω min.
- Withstanding voltage: Initial value/ 500V AC/minute
After environmental testing/
250VAC/minute
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

PC board layout (viewed from component side) and Assembly layout



- Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Receptacle

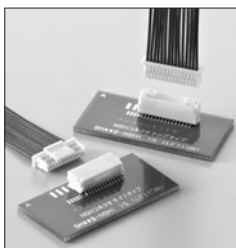


Circuits	Model No.	Q'ty / reel
30	SM30B-LDYGLS-01-TB	4,000

Material and Finish

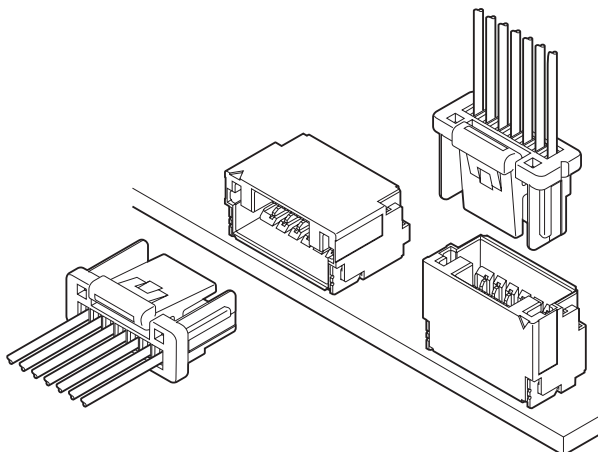
Contact: Copper alloy, nickel-undercoated, gold-plated
Housing: Heat resisting resin, UL94V-0
Shell: Stainless steel, nickel-undercoated, palladium-plated
Ground bar: Copper alloy, nickel-undercoated, tin/copper alloy-plated

RoHS compliance This product displays (LF) on a label.



NSH CONNECTOR

1.0mm pitch/Disconnectable Crimp style connectors



1.0mm pitch secure lock type connector.
This low insertion force type connector
realizes easier mating operation. The basic
concept of the contact part of this connector
is equivalent to the performance proven
SHL connector.

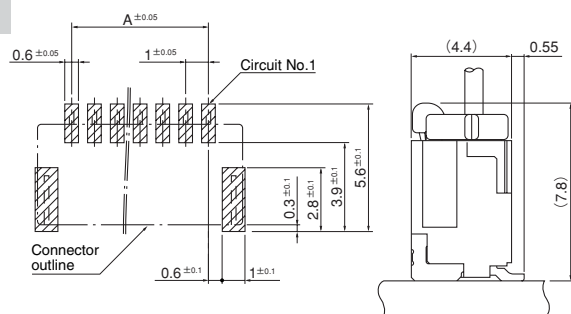
- **Secure locking structure**
- **Contact lock structure**
- **Prevention of contact deformation**
- **Clear engagement click sounds**

Specifications

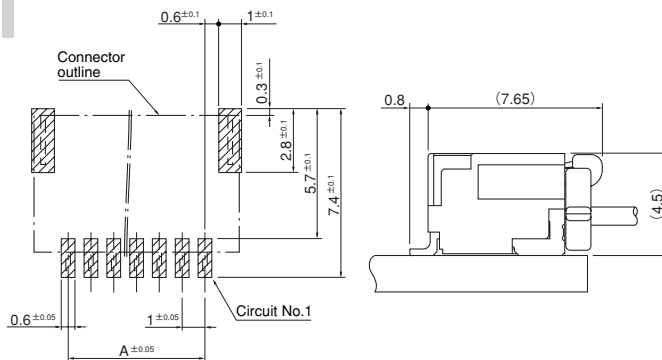
- Current rating: 1.0A AC, DC (AWG #28)
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
 (including temperature rise in applying electrical current)
- Contact resistance: Initial value/30m Ω max.
 After environmental testing/50m Ω max.
- Insulation resistance: 100M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable wire: Conductor size/AWG #32 to #28
 Insulation O.D./0.4 to 0.8mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

PC board layout (viewed from component side) and Assembly layout

Top entry type

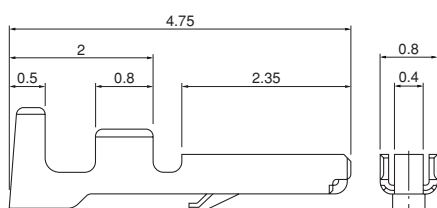


Side entry type



Note: 1. Tolerances are non-cumulative: ± 0.05 mm for all centers.
 2. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SSH-L-003T- P0.2	0.032~0.08	32~28	0.4~0.8	30,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

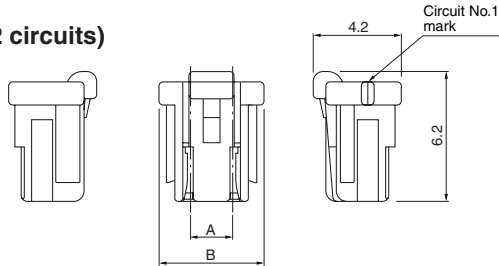
RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SSH-L-003T-P0.2	AP-K2N	MKS-L-10-3	MK/SSH/L-003-02	APLMK SSH/L003-02
		*MKS-SC	SC/SSH/L-003-02	APLSC SSH/L003-02

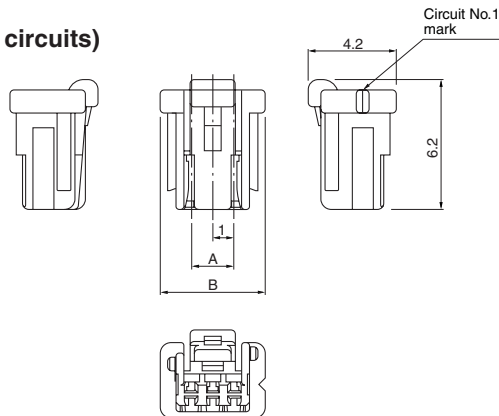
Note: *Strip-crimp applicator
 Contact JST for applicable wires in case that it is not usable due to wire size.

Housing

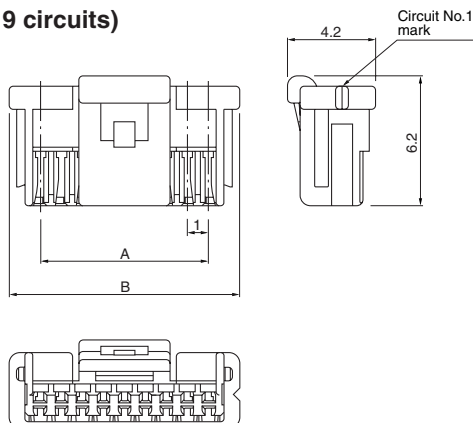
(2 circuits)



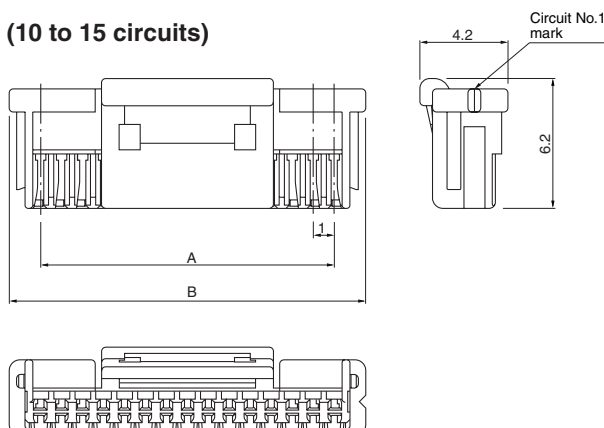
(3 circuits)



(4 to 9 circuits)



(10 to 15 circuits)



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	NSHR-02V-S	*2.0	*5.0	3,000
3	NSHR-03V-S	2.0	5.0	3,000
4	NSHR-04V-S	3.0	6.0	2,500
5	NSHR-05V-S	4.0	7.0	2,000
6	NSHR-06V-S	5.0	8.0	1,500
7	NSHR-07V-S	6.0	9.0	1,500
8	NSHR-08V-S	7.0	10.0	1,500
9	NSHR-09V-S	8.0	11.0	1,000
10	NSHR-10V-S	9.0	12.0	1,000
11	NSHR-11V-S	10.0	13.0	1,000
12	NSHR-12V-S	11.0	14.0	1,000
13	NSHR-13V-S	12.0	15.0	1,000
14	NSHR-14V-S	13.0	16.0	1,000
15	NSHR-15V-S	14.0	17.0	1,000

Material

PBT, UL94V-0, natural

RoHS compliance

Note: 2 circuits product is that the second pin of 3 circuits product is plugged up. (Between circuits 2.0mm pitch)

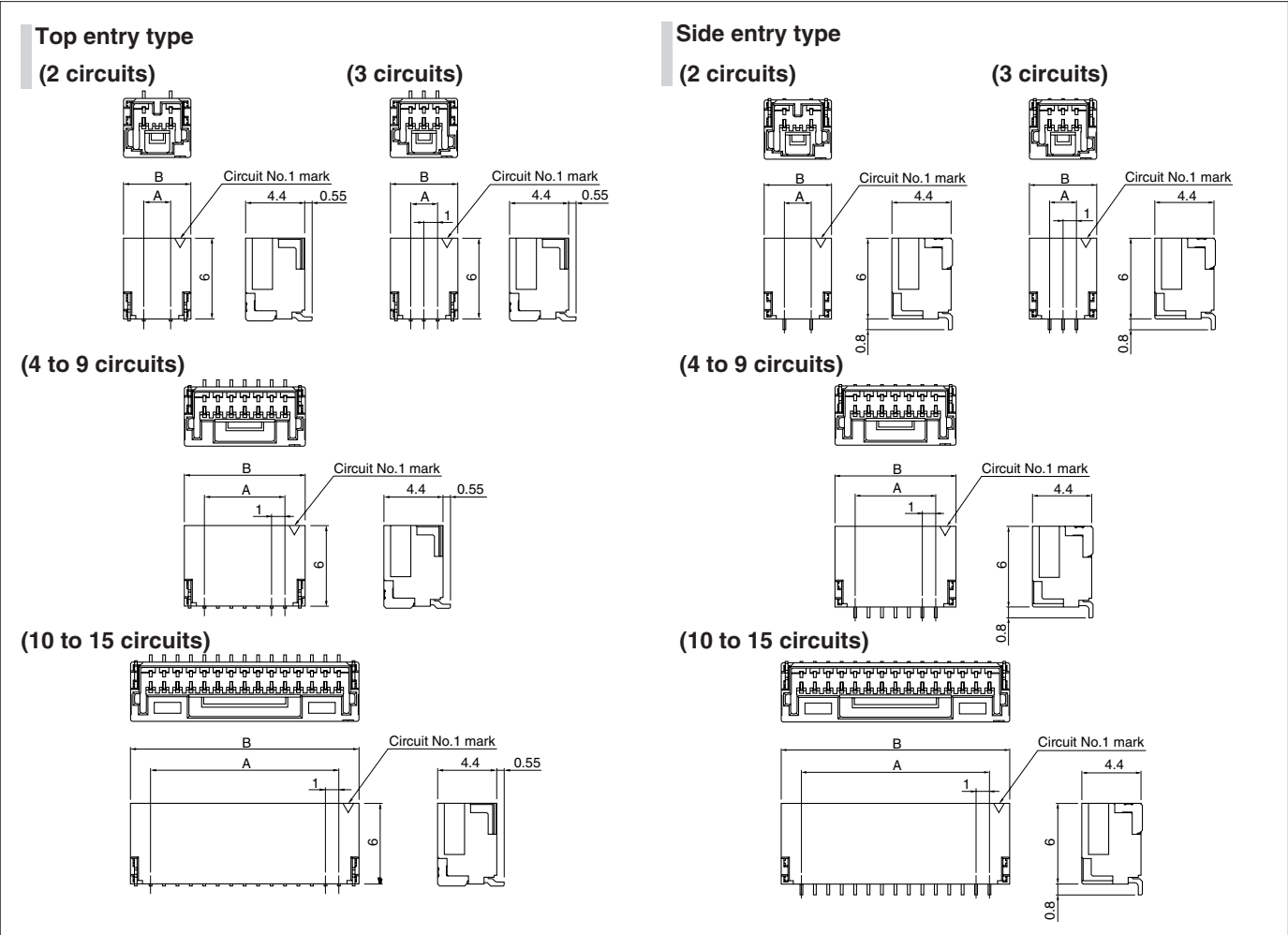
<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **NSHR-02V-S**

S...natural Z...ivory TR...tomato red E...blue MG...moss green
DH...dark gray LE...light blue K...black DPK...dark pink

NSH CONNECTOR

Shrouded header



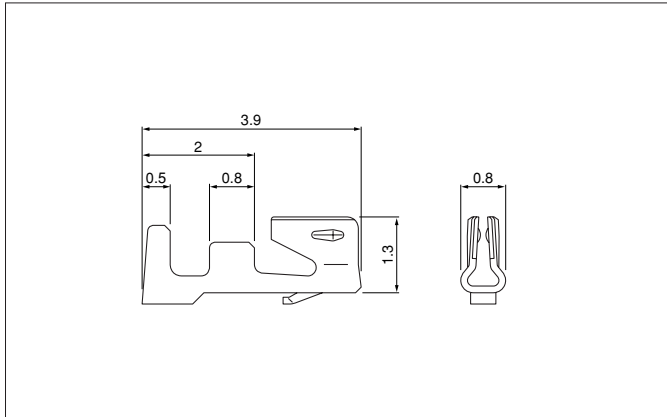


Emboss Tape



NSHD CONNECTOR

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
NSHD-003T-P0.2	0.032~0.08	32~28	0.4~0.8	23,000

Material and Finish

Copper alloy, tin-plated (reflow treatment)

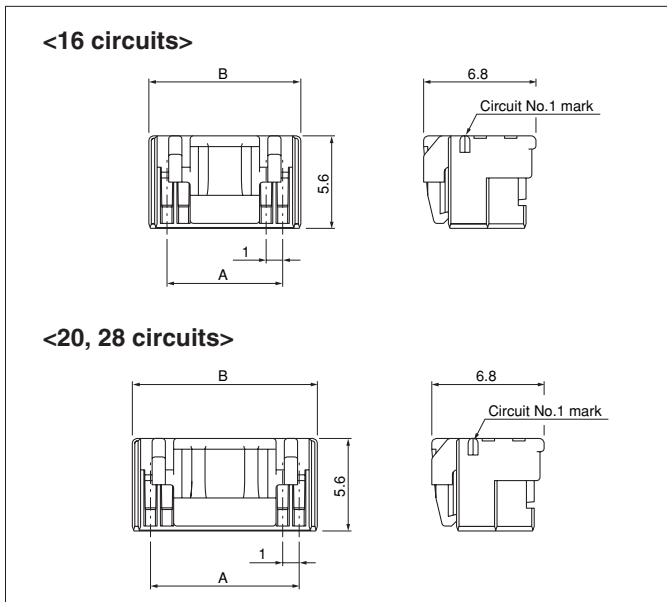
RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
NSHD-003T-P0.2	AP-K2N	MKS-L-10-3	MK/SSH/L-003-02	APLMK SSH/L003-02
		*MKS-SC	SC/SSH/L-003-02	APLSC SSH/L003-02

Note: *Strip-crimp applicator

Contact JST for applicable wires in case that it is not usable due to wire size.

Housing



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
16	NSHDR-16V-Z	7.0	9.2	2,500
20	NSHDR-20V-Z	9.0	11.2	2,000
28	NSHDR-28V-Z	13.0	15.2	1,000

Material

PBT, UL94V-0, ivory

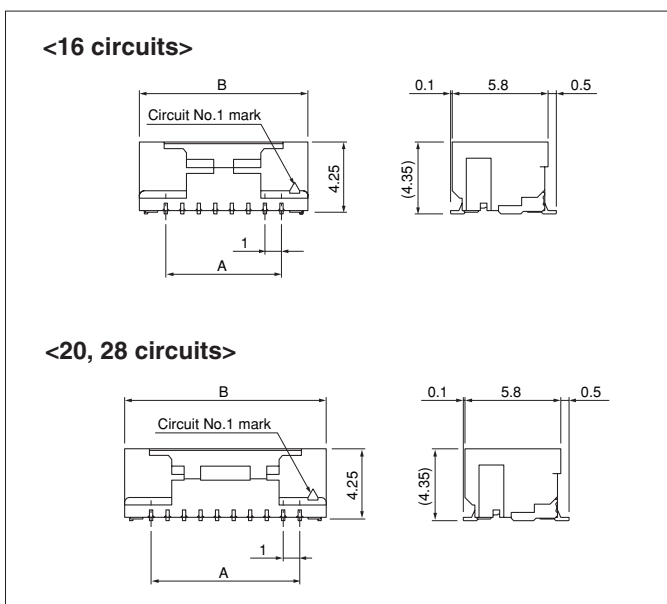
RoHS compliance

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **NSHDR-16V-Z**

Z...ivory MG...moss green TR...tomato red
DPK...dark pink E...blue

Shrouded header



Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
16	BM16B-NSHDZS-TFT	7.0	10.2	8.8	1,600
20	BM20B-NSHDZS-TFT	9.0	12.2	10.8	1,600
28	BM28B-NSHDZS-TFT	13.0	16.2	14.8	1,600

Material and Finish

Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Header: Polyamide resin, UL94V-0, ivory

Reinforcing tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

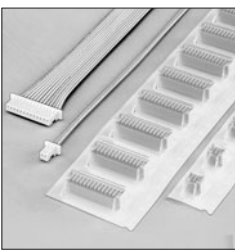
RoHS compliance

Note: The products listed above are supplied on embossed-tape.

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

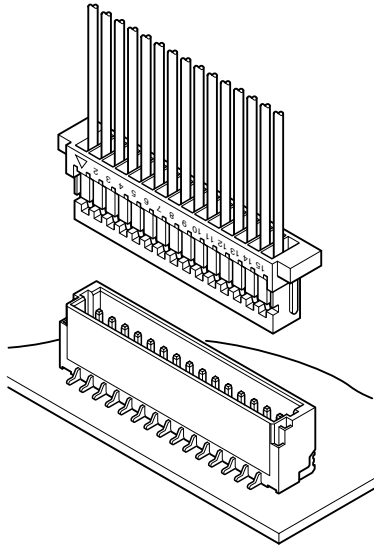
ex. **NSHDR-16V-Z**

Z...ivory MG...moss green TR...tomato red
DPK...dark pink E...blue



SH CONNECTOR

1.0mm pitch/Disconnectable Crimp style connectors



The world's first 1.0mm pitch crimp style connector.

- Compact, low profile design
- Compatible with the SR insulation displacement connectors
- Housing lances

Specifications

- Current rating: 1.0 A AC, DC (AWG #28)
- Voltage rating: 50 V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 20 mΩ max.
After environmental tests/ 40 mΩ max.
- Insulation resistance: 100 MΩ min.
- Withstanding voltage: 500 VAC/minute
- Applicable wire: Conductor size/ AWG #32 to #28
Insulation O.D./ 0.4 to 0.8 mm

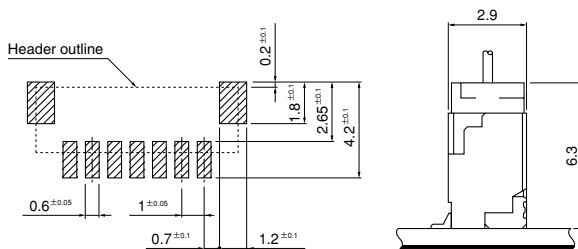
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Compliant with RoHS.

Standards

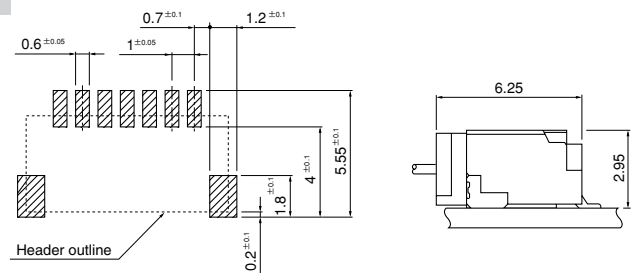
Recognized E60389

Certified LR20812

Top entry type

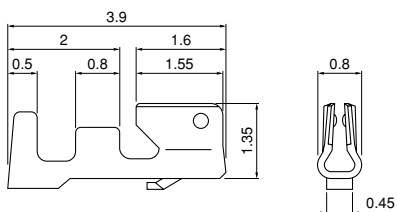


Side entry type



- Note: 1. The above figure is the figure viewed from the connector mounting side.
2. Tolerances are non-cumulative: ±0.05mm for all centers.
3. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire			Q'ty / reel
	mm ²	AWG#	Insulation O.D. (mm)	
SSH-003T-P0.2-H	0.032~0.08	32~28	0.4~0.8	23,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Note: Contact JST for gold-plated products.

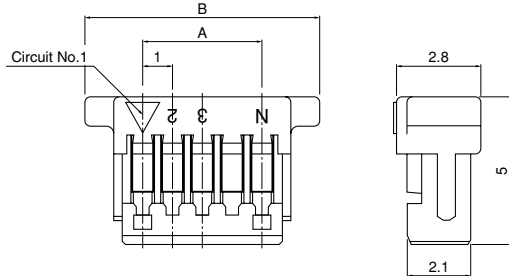
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SSH-003T-P0.2-H	AP-K2N	MKS-L-10-3	MK/SSH/L-003-02	APLMK SSH/L003-02
		*MKS-SC	SC/SSH/L-003-02	APLSC SSH/L003-02

Note: *Strip-crimp applicator

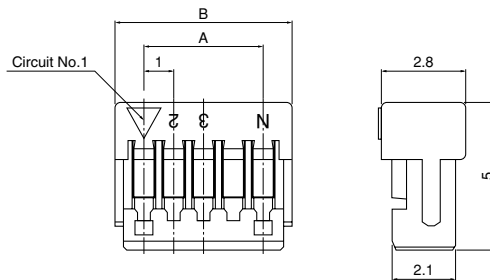
Contact JST for applicable wires in case that it is not usable due to wire size.

Housing

With protrusions



Without protrusions



Circuits	Model No.		Dimensions (mm)			Q'ty / box
	With protrusions	Without protrusions	A	With protrusions	Without protrusions	
2	SHR-02V-S-B	SHR-02V-S	1.0	5.0	3.0	2,000
3	SHR-03V-S-B	SHR-03V-S	2.0	6.0	4.0	2,000
4	SHR-04V-S-B	SHR-04V-S	3.0	7.0	5.0	2,000
5	SHR-05V-S-B	SHR-05V-S	4.0	8.0	6.0	2,000
6	SHR-06V-S-B	SHR-06V-S	5.0	9.0	7.0	2,000
7	SHR-07V-S-B	SHR-07V-S	6.0	10.0	8.0	2,000
8	SHR-08V-S-B	SHR-08V-S	7.0	11.0	9.0	2,000
9	SHR-09V-S-B	SHR-09V-S	8.0	12.0	10.0	2,000
10	SHR-10V-S-B	SHR-10V-S	9.0	13.0	11.0	2,000
11	SHR-11V-S-B	SHR-11V-S	10.0	14.0	12.0	2,000
12	SHR-12V-S-B	SHR-12V-S	11.0	15.0	13.0	2,000
13	SHR-13V-S-B	SHR-13V-S	12.0	16.0	14.0	2,000
14	SHR-14V-S-B	SHR-14V-S	13.0	17.0	15.0	2,000
15	SHR-15V-S-B	SHR-15V-S	14.0	18.0	16.0	2,000
20	SHR-20V-S-B	—	19.0	23.0	21.0	1,000

Material

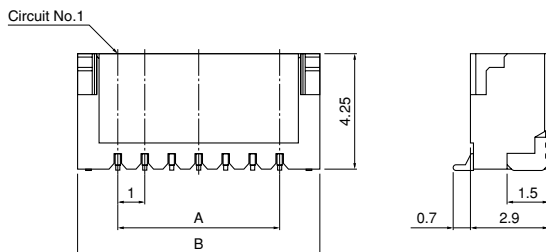
PBT, UL94V-0, natural (white)

RoHS compliance

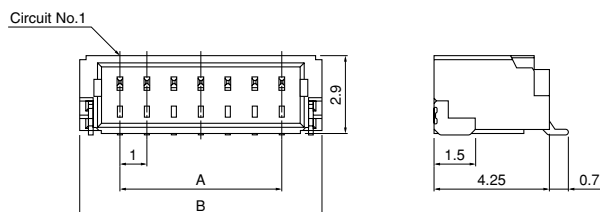
Shrouded header

The shrouded headers are interchangeable with those of the SR insulation displacement connectors.

Top entry type



Side entry type



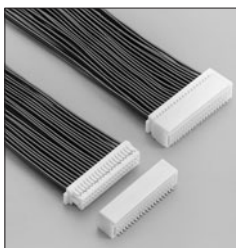
Circuits	Model No.		Dimensions (mm)		Q'ty / reel	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
2	BM02B-SRSS-TB	SM02B-SRSS-TB	1.0	4.0	1,500	3,000
3	BM03B-SRSS-TB	SM03B-SRSS-TB	2.0	5.0	1,500	3,000
4	BM04B-SRSS-TB	SM04B-SRSS-TB	3.0	6.0	1,500	3,000
5	BM05B-SRSS-TB	SM05B-SRSS-TB	4.0	7.0	1,500	3,000
6	BM06B-SRSS-TB	SM06B-SRSS-TB	5.0	8.0	1,500	3,000
7	BM07B-SRSS-TB	SM07B-SRSS-TB	6.0	9.0	1,500	3,000
8	BM08B-SRSS-TB	SM08B-SRSS-TB	7.0	10.0	1,500	3,000
9	BM09B-SRSS-TB	SM09B-SRSS-TB	8.0	11.0	1,500	3,000
10	BM10B-SRSS-TB	SM10B-SRSS-TB	9.0	12.0	1,500	3,000
11	BM11B-SRSS-TB	SM11B-SRSS-TB	10.0	13.0	1,500	3,000
12	BM12B-SRSS-TB	SM12B-SRSS-TB	11.0	14.0	1,500	3,000
13	BM13B-SRSS-TB	SM13B-SRSS-TB	12.0	15.0	1,500	3,000
14	BM14B-SRSS-TB	SM14B-SRSS-TB	13.0	16.0	1,500	3,000
15	BM15B-SRSS-TB	SM15B-SRSS-TB	14.0	17.0	1,500	3,000
20	—	SM20B-SRSS-TB	19.0	22.0	—	3,000

Material and Finish

Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Housing: PA, UL94V-0, natural (ivory)
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

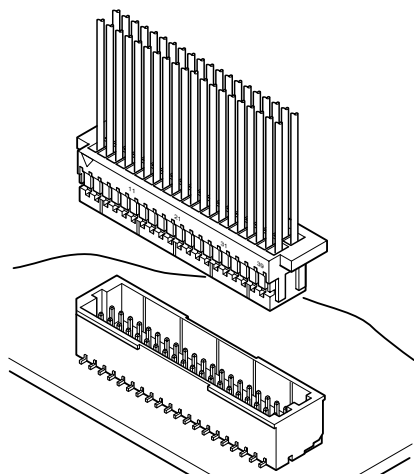
RoHS compliance

This product displays (LF)(SN) on a label.
Note: 1. The products listed above are supplied on embossed-tape.
2. Contact JST for the headers with gold-plated pins.
3. Contact JST for the top entry type headers with suction cap.



SHD CONNECTOR

1.0mm pitch/Disconnectable Crimp style connectors



The SHD connector is compact with a mounting height of 6.3mm for top entry type and 5.5mm for side entry type, and a width of 5.0mm for top entry type and 5.1mm for side entry type.

- Compact, low profile design
- Anti-misinsertion feature
- Receptacles with protrusions
- Header designed for vacuum pick and place robotics

Specifications

- Current rating: 1.0 A AC, DC (AWG #28)
- Voltage rating: 50 V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 20 mΩ max.
After environmental tests/ 40 mΩ max.
- Insulation resistance: 100 MΩ min.
- Withstanding voltage: 500 VAC/minute
- Applicable wire: Conductor size/ AWG #32 to #28
Insulation O.D./ 0.4 to 0.8 mm

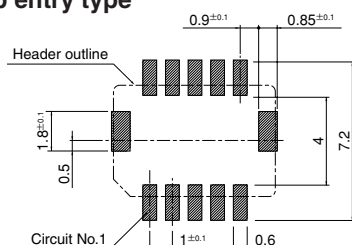
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Compliant with RoHS.

Standards

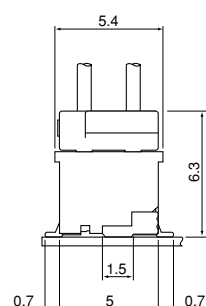
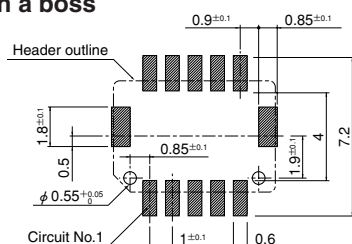
Recognized E60389

Certified LR20812

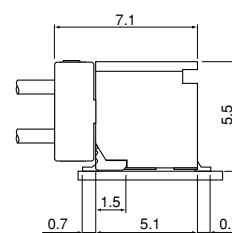
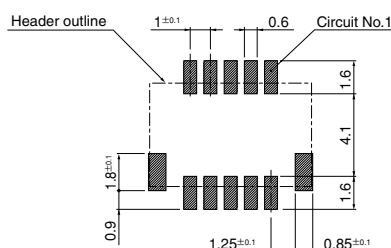
Top entry type



with a boss

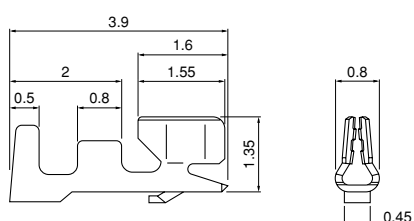


Side entry type



- Note: 1. The above figure is the figure viewed from the connector mounting side.
2. Tolerances are non-cumulative: ±0.05mm for all centers.
3. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire			Q'ty / reel
	mm ²	AWG#	Insulation O.D. (mm)	
SSH-003GA-P0.2	0.032~0.08	32~28	0.4~0.8	23,000

Material and Finish

Phosphor bronze, nickel-undercoated, Mating part; gold-plated

RoHS compliance

Note: Contact JST for tin-plated products.

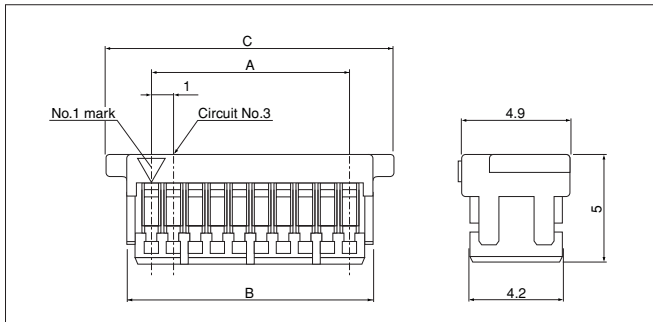
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SSH-003GA-P0.2	AP-K2N	MKS-L-10-3	MK/SSH/L-003-02	APLMK SSH/L003-02
		*MKS-SC	SC/SSH/L-003-02	APLSC SSH/L003-02

Note: *Strip-crimp applicator

Contact JST for applicable wires in case that it is not usable due to wire size.

SHD CONNECTOR

Housing



Circuits	Model No.	Dimensions (mm)			Q'ty / box
		A	B	C	
20	SHDR-20V-S-B	9.0	11.2	13.0	4,000
30	SHDR-30V-S-B	14.0	16.2	18.0	4,000
40	SHDR-40V-S-B	19.0	21.2	23.0	2,000
50	SHDR-50V-S-B	24.0	26.2	28.0	2,000

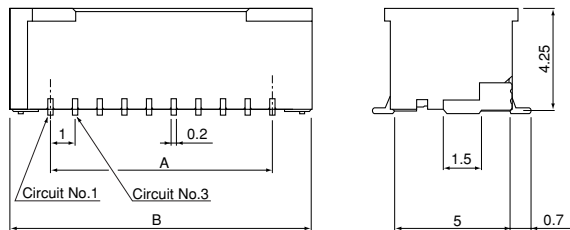
Material

PBT, UL94V-0, natural (white)

RoHS compliance

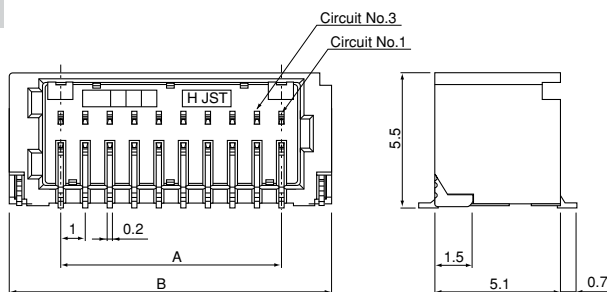
Shrouded header

Top entry type



Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
20	BM20B-SRDS-G-TF	9.0	12.3	1,500
30	BM30B-SRDS-G-TF	14.0	17.3	1,500
40	BM40B-SRDS-G-TF	19.0	22.3	1,500
50	BM50B-SRDS-G-TF	24.0	27.3	1,500

Side entry type



Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
20	SM20B-SRDS-G-TF	9.0	13.1	1,250
30	SM30B-SRDS-G-TF	14.0	18.1	1,250
40	SM40B-SRDS-G-TF	19.0	23.1	1,250
50	SM50B-SRDS-G-TF	24.0	28.1	1,250

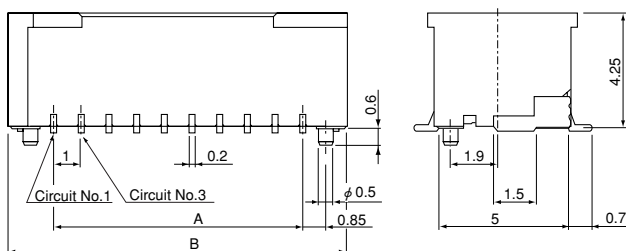
Material and Finish

Header contact: Phosphor bronze, nickel-undercoated, gold-plated
Wafer: PA, UL94V-0, natural (ivory)
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance

This product displays (LF)(SN) on a label.
Note: 1. The products listed above are supplied on embossed-tape.
2. Contact JST for the headers with tin-plated pins.
3. Contact JST for the top entry type headers with suction cap.

Top entry type with a boss



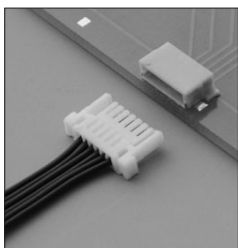
Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
20	BM20B-SRDS-A-G-TF	9.0	12.3	1,250
30	BM30B-SRDS-A-G-TF	14.0	17.3	1,250
40	BM40B-SRDS-A-G-TF	19.0	22.3	1,250
50	BM50B-SRDS-A-G-TF	24.0	27.3	1,250

Material and Finish

Header contact: Phosphor bronze, nickel-undercoated, gold-plated
Wafer: PA, UL94V-0, natural (ivory)
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

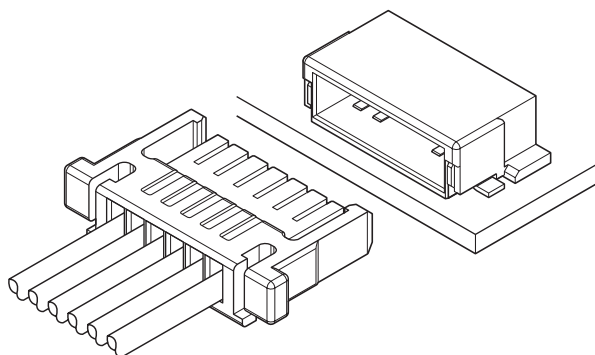
RoHS compliance

This product displays (LF)(SN) on a label.
Note: 1. The products listed above are supplied on embossed-tape.
2. Contact JST for the headers with tin-plated pins.



SHJ CONNECTOR

1.0mm pitch/Disconnectable Crimp style connectors

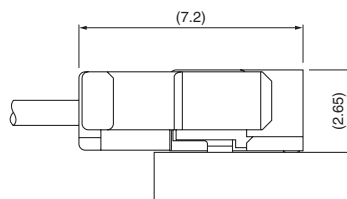
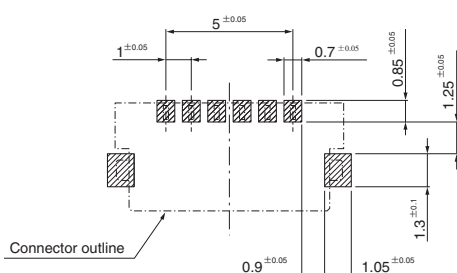


This is low profile connector suitable for the backlight connection of the LED liquid crystal display. It has the secure locking structure to prevent to come off the housing when handling the wire.

- Low profile design
- Secure locking structure
- Halogen-free

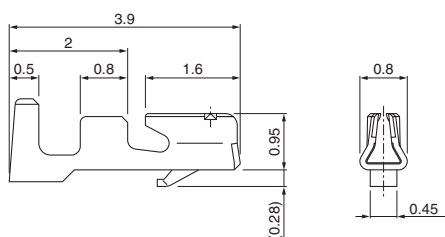
Specifications

- Current rating: 1.0 A AC, DC (AWG #28)
 - Voltage rating: 125 V AC, DC
 - Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
 - Contact resistance: Initial value/ 20 mΩ max.
After environmental tests/ 40 mΩ max.
 - Insulation resistance: 100 MΩ min.
 - Withstanding voltage: 500 VAC/minute
 - Applicable wire: Conductor size/ AWG #32 to #28
Insulation O.D./ 0.54 to 0.8 mm
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.
* Compliant with RoHS.



Note: 1. The above figure is the figure viewed from the connector mounting side.
2. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SSHJ-003T-P0.2	0.032~0.08	32~28	0.54~0.8	28,000

Material and Finish

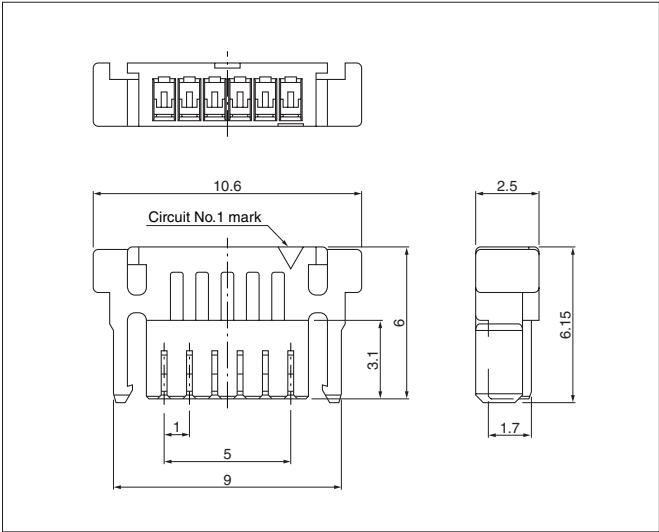
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SSHJ-003T-P0.2	AP-K2N	MKS-L-10-3	MK/SSH/L-003-02	APLMK SSH/L003-02
		—	—	—

Note: SHJ connector can be crimped by our genuine dies for the existing SH connector contact.

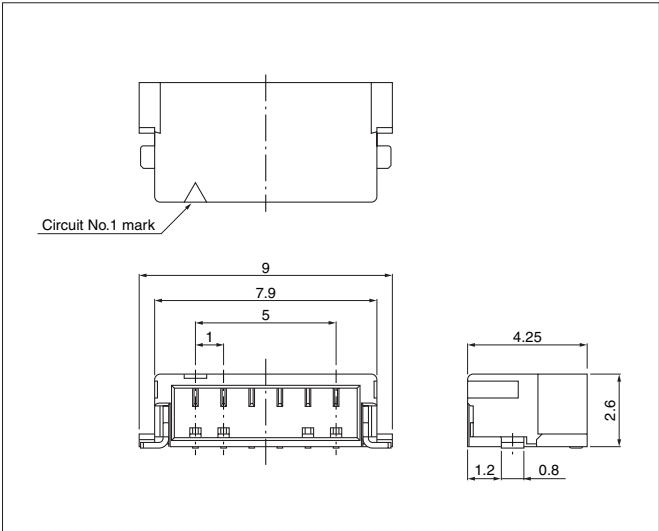
Housing



Circuits	Model No.	Q'ty / bag
6	SHJP-06V-S(HF)	1,000
Material and Finish		
PBT, UL94V-0, natural (white)		

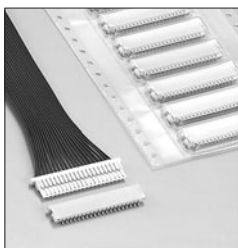
RoHS compliance This product displays (HF) on a label.

Header



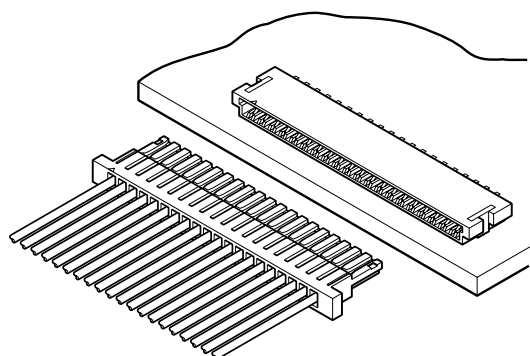
Circuits	Model No.	Q'ty / reel
6	SM06B-SHJH-TF(HF) (D)	3,500
Material and Finish		
Contact: Brass, copper-undercoated, tin-plated (reflow treatment) Housing: Polyamide, UL94V-0, gray Reinforcing tab: Brass, copper-undercoated, tin-plated (reflow treatment)		

RoHS compliance This product displays (HF) on a label.
Note: The product listed above are supplied on embossed-tape.



SHL CONNECTOR

1.0mm pitch/Disconnectable Crimp style connectors



- **Thin design**
- **Low insertion force**
- **Deformation preventive design**

Specifications

- Current rating: 1.0 A AC, DC (AWG #28)
- Voltage rating: 50 V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 20 mΩ max.
After environmental tests/ 40 mΩ max.
- Insulation resistance: 100 MΩ min.
- Withstanding voltage: 500 VAC/minute
- Applicable wire: AWG #32 to #28

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

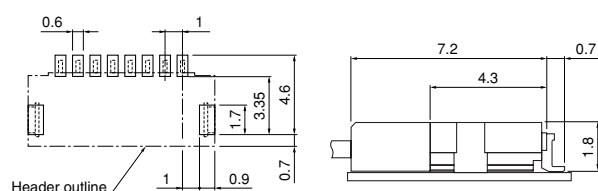
* Compliant with RoHS.

Standards

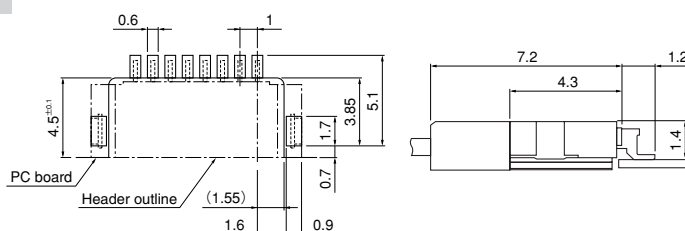
Recognized E60389

Certified LR20812

Normal type

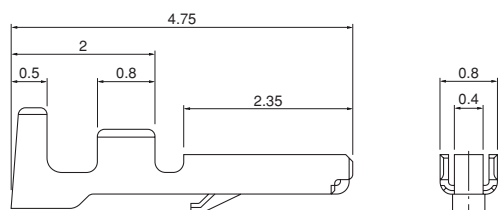


Offset type



- Note: 1. The above figure is the figure viewed from the connector mounting side.
2. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
3. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire			Q'ty / reel
	mm ²	AWG#	Insulation O.D. (mm)	
SSHL-003T-P0.2	0.032~0.08	32~28	0.4~0.8	41,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

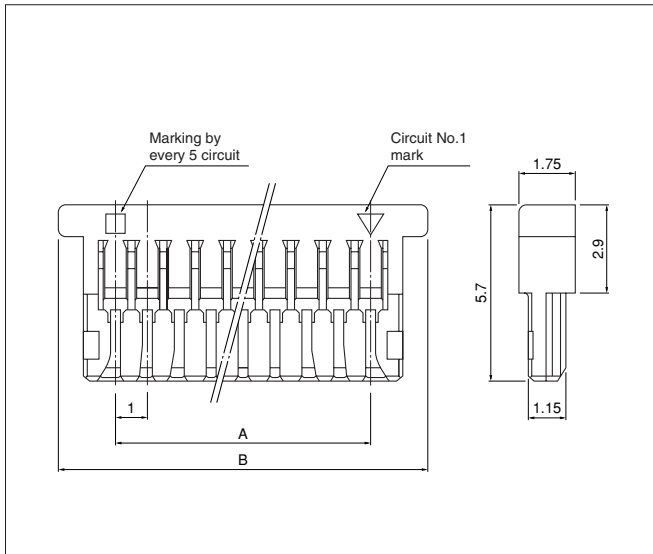
Note: Contact JST for gold-plated products.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SSHL-003T-P0.2	AP-K2N	MKS-L-10-3	MK/SSH/L-003-02	APLMK SSH/L003-02
		*MKS-SC	SC/SSH/L-003-02	APLSC SSH/L003-02

Note: *Strip-crimp applicator

Contact JST for applicable wires in case that it is not usable due to wire size.

Housing



Circuits	Model No.	Dimensions (mm)		Q'ty / box
	With protrusions	A	B	
2	SHLP-02V-S-B	1.0	4.6	6,000
5	SHLP-05V-S-B	4.0	7.6	3,000
6	SHLP-06V-S-B	5.0	8.6	3,000
7	SHLP-07V-S-B	6.0	9.6	3,000
8	SHLP-08V-S-B	7.0	10.6	3,000
10	SHLP-10V-S-B	9.0	12.6	2,000
11	SHLP-11V-S-B	10.0	13.6	2,000
12	SHLP-12V-S-B	11.0	14.6	2,000
14	SHLP-14V-S-B	13.0	16.6	2,000
16	SHLP-16V-S-B	15.0	18.6	1,000
20	SHLP-20V-S-B	19.0	22.6	1,000
22	SHLP-22V-S-B	21.0	24.6	1,000
26	SHLP-26V-S-B	25.0	28.6	1,000
30	SHLP-30V-S-B	29.0	32.6	1,000

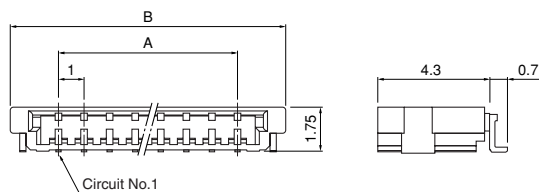
Material

PBT, UL94V-0, natural (white)

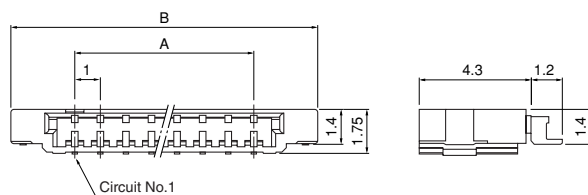
RoHS compliance

Shrouded header

Normal type



Offset type

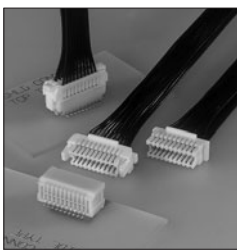


Circuits	Model No.		Insulation O.D. (mm)				Q'ty / reel
	Normal type	Offset type	Normal type		Offset type		
			A	B	A	B	
2	SM02B-SHLS-TF	—	1.0	4.8	—	—	4,500
5	SM05B-SHLS-TF	—	4.0	7.8	—	—	4,500
6	SM06B-SHLS-TF	—	5.0	8.8	—	—	4,500
7	SM07B-SHLS-TF	—	6.0	9.8	—	—	4,500
8	SM08B-SHLS-TF	SM08B-SHLS-1-TF	7.0	10.8	7.0	12.0	4,500
10	SM10B-SHLS-TF	—	9.0	12.8	—	—	4,500
11	SM11B-SHLS-TF	—	10.0	13.8	—	—	4,500
12	SM12B-SHLS-TF	—	11.0	14.8	—	—	4,500
14	SM14B-SHLS-TF	SM14B-SHLS-1-TF	13.0	16.8	13.0	18.0	4,500
16	SM16B-SHLS-TF	—	15.0	18.8	—	—	4,500
20	SM20B-SHLS-TF	SM20B-SHLS-1-TF	19.0	22.8	19.0	24.0	4,500
22	SM22B-SHLS-TF	—	21.0	24.8	—	—	4,500
26	SM26B-SHLS-TF	—	25.0	28.8	—	—	4,500
30	SM30B-SHLS-TF	—	29.0	32.8	—	—	4,500

Material and Finish

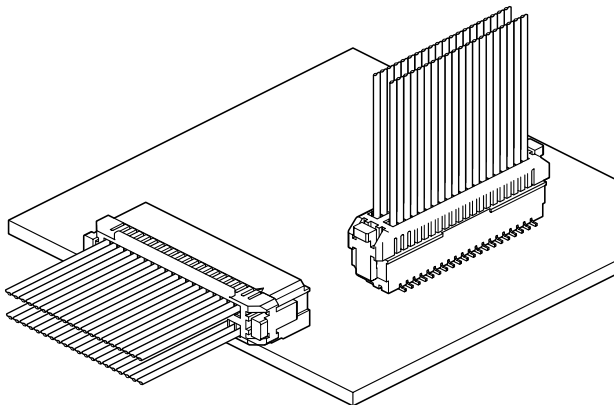
Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Housing: PA, UL94V-0, natural (ivory)
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.
Note: Contact JST for the headers with gold-plated pins.



SHLD CONNECTOR

1.0mm pitch/Disconnectable Crimp style connectors



Developed for PDP, LCD or small electronics equipment.

This is a dual-row small crimp type connector with a secure locking system or without-designed for different applications. The PC board layout is compatible with that of existing SHD connector, which allows for replacement of the above existing connector.

- Secure housing lock structure (for locking type)
- Prevent deformation of contacts
- A contact lock structure
- Strong structure against external force

Specifications

- Current rating: 1.0 A AC, DC (AWG #28)
- Voltage rating: 50 V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 30 mΩ max.
After environmental tests/ 40 mΩ max.
- Insulation resistance: 100 MΩ min.
- Withstanding voltage: 500 VAC/minute

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

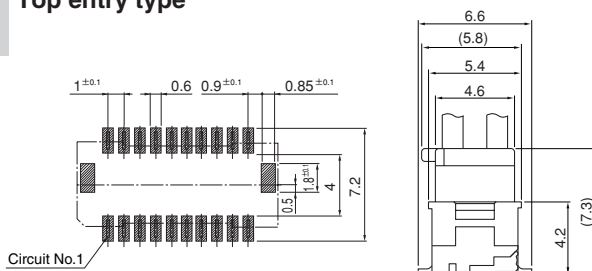
* Contact JST for details.

* Compliant with RoHS.

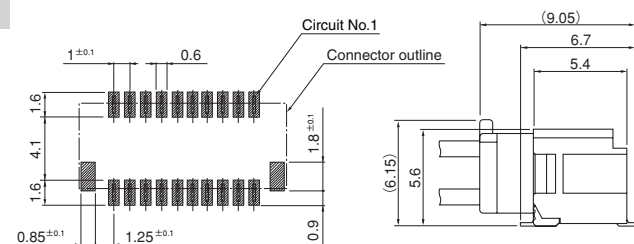
Standards

Recognized E60389

Top entry type



Side entry type

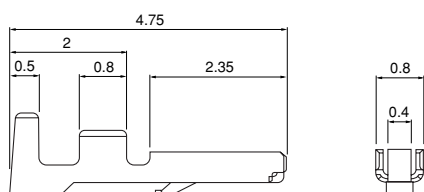


Note: 1. The above figure is the figure viewed from the connector mounting side.

2. Tolerances are non-cumulative: ±0.1mm for all centers.

The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SSHLD-003GA1-P0.2	0.032~0.08	32~28	0.4~0.8	41,000

Material and Finish

Phosphor bronze, nickel-undercoated, Mating part; gold-plated, Crimping part; gold-plated

RoHS compliance

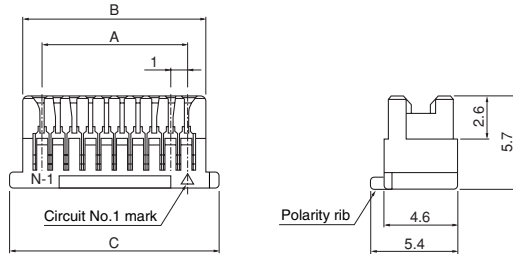
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SSHLD-003GA1-P0.2	AP-K2N	MKS-L-10-3	MK/SSH/L-003-02	APLMK SSH/L003-02
		*MKS-SC	SC/SSH/L-003-02	APLSC SSH/L003-02

Note: *Strip-crimp applicator

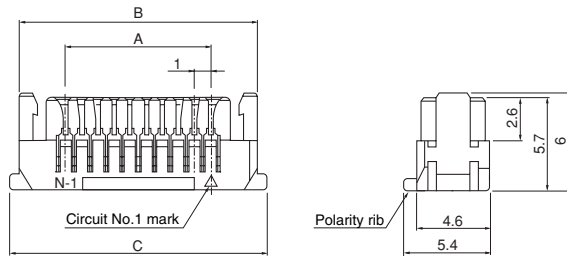
Contact JST for applicable wires in case that it is not usable due to wire size.

SHLD CONNECTOR

Housing



With secure lock type



Circuits	Model No.	Dimensions (mm)			Q'ty / bag
		A	B	C	
20	SHLDP-20V-S(B)	9.0	11.4	13.0	3,500
30	SHLDP-30V-S(B)	14.0	16.4	18.0	2,500
40	SHLDP-40V-S(B)	19.0	21.4	23.0	2,000
50	SHLDP-50V-S(B)	24.0	26.4	28.0	1,500

Material

PBT, UL94V-0, natural (white)

RoHS compliance

With secure lock type

Circuits	Model No.	Dimensions (mm)			Q'ty / bag
		A	B	C	
20	SHLDP-20V-S-1(B)	9.0	14.7	15.7	3,000
30	SHLDP-30V-S-1(B)	14.0	19.7	20.7	2,000
40	SHLDP-40V-S-1(B)	19.0	24.7	25.7	1,500
50	SHLDP-50V-S-1(B)	24.0	29.7	30.7	1,200

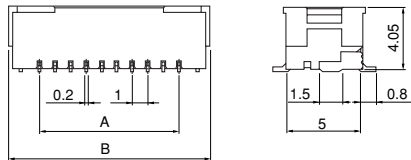
Material

PBT, UL94V-0, natural (white)

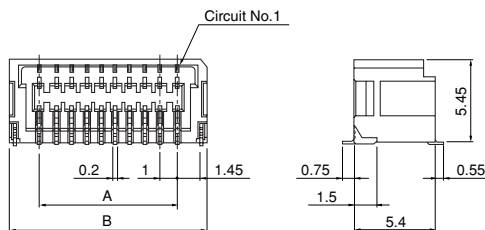
RoHS compliance

Shrouded header

Top entry type



Side entry type



Circuits	Model No.		Dimensions (mm)		Q'ty / reel	
	Top entry type	Side entry type	A	B	Top type	Side type
20	BM20B-SHLDS-G-TFT	SM20B-SHLDS-G-TF	9.0	13.0	1,400	1,000
30	BM30B-SHLDS-G-TFT	SM30B-SHLDS-G-TF	14.0	18.0	1,400	1,000
40	BM40B-SHLDS-G-TFT	SM40B-SHLDS-G-TF	19.0	23.0	1,400	1,000
50	BM50B-SHLDS-G-TFT	SM50B-SHLDS-G-TF	24.0	28.0	1,400	1,000

Material and Finish

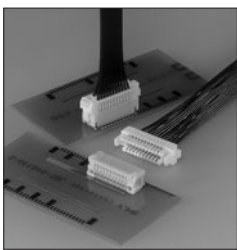
Contact: Phosphor bronze, nickel-undercoated, gold-plated

Wafer: PA, UL94V-0, natural (ivory)

Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

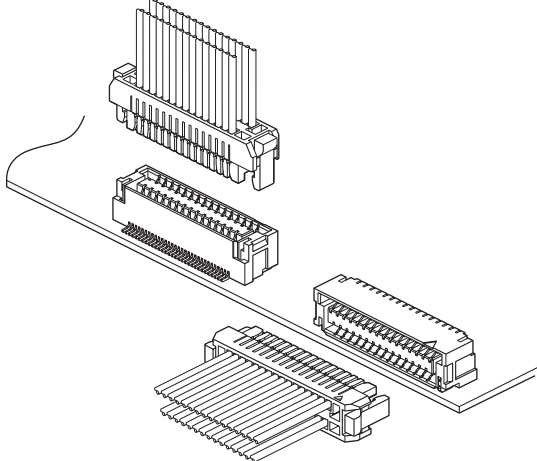
RoHS compliance

This product displays (LF)(SN) on a label.



SHLV CONNECTOR

1.0mm pitch/Disconnectable Crimp style connectors



This is the wire to board connector corresponding to the high frequency transmission (LVDS: Low Voltage Differential Signaling) with a lot of adoption for PDP, LCD - TV and so on. This connector was developed to have excellent workability, strength and cost performance. This connector is used not only for LVDS, but also for multi - circuits connector (small and space saving type) in normal circuit.

- Corresponding to LVDS (Low Voltage Differential Signaling)
- Secure locking structure
- Connector strength
- Contact locking structure

Specifications

- Current rating: 1.0 A AC, DC (AWG #28)
- Voltage rating: 30 V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 30 mΩ max.
After environmental tests/ 50 mΩ max.
- Insulation resistance: 100 MΩ min.
- Withstanding voltage: 500 VAC/minute
- Applicable wire: Conductor size/ AWG #32 to #28
Insulation O.D./ 0.4 to 0.8 mm

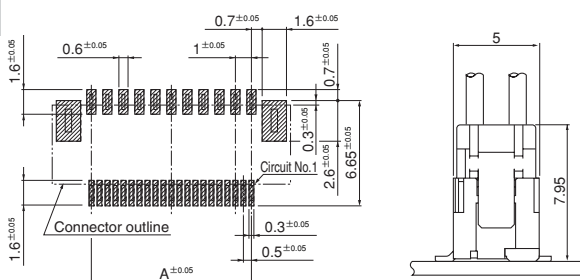
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Compliant with RoHS.

Standards

Recognized E60389

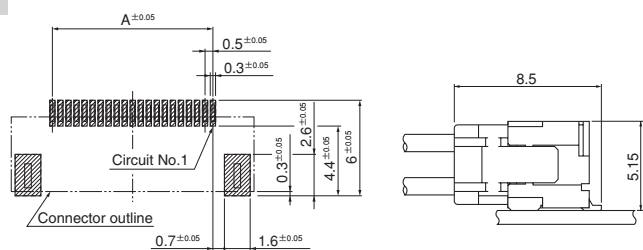
Certified LR20812

Top entry type

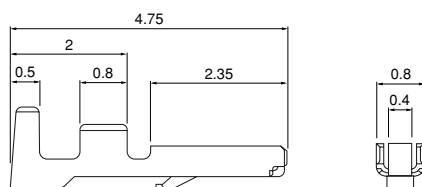


- Note: 1. The above figure is the figure viewed from the connector mounting side.
2. Tolerances are non-cumulative: ±0.05mm for all centers.
3. The dimensions above should serve as a guideline. Contact JST for details.

Side entry type



Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SSH/L-003GA1-P0.2	0.032~0.08	32~28	0.4~0.8	41,000

Material and Finish

Phosphor bronze, nickel-undercoated, Mating part; gold-plated, Crimping part; gold-plated

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SSH/L-003GA1-P0.2	AP-K2N	MKS-L-10-3	MK/SSH/L-003-02	APLMK SSH/L003-02
		*MKS-SC	SC/SSH/L-003-02	APLSC SSH/L003-02

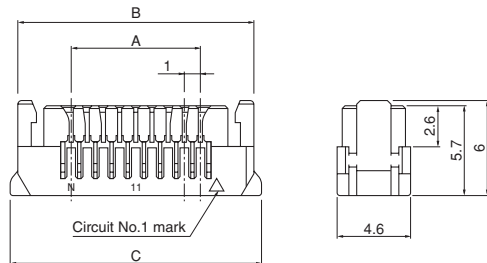
Note: *Strip-crimp applicator

Contact JST for applicable wires in case that it is not usable due to wire size.

SHLV CONNECTOR

Housing

With secure lock



Circuits	Model No.	Dimensions (mm)			Q'ty / bag
		A	B	C	
21	SHLVP-21V-S-1	10.0	16.7	17.7	3,000
31	SHLVP-31V-S-1	15.0	21.7	22.7	2,000

Material

PBT, UL94V-0, natural(white)

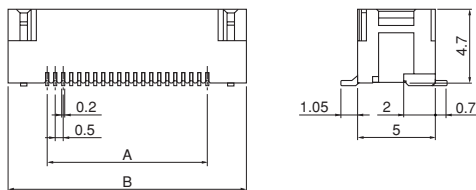
RoHS compliance

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **SHLVP-21V-S-1**
S...natural (white)
LE...light blue

Shrouded header

Top entry type



Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
21	BM21B-SHLVS-G-TBT	10.0	15.0	1,500
31	BM31B-SHLVS-G-TBT	15.0	20.0	1,500

Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
21	SM21B-SHLVS-G-TB	10.0	15.0	2,000
31	SM31B-SHLVS-G-TB	15.0	20.0	2,000

Material and Finish

Contact: Phosphor bronze, nickel-undercoated, gold-plated
Wafer: Polyamide, UL94V-0, natural (ivory)
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.
The products listed above are supplied on embossed-tape.

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

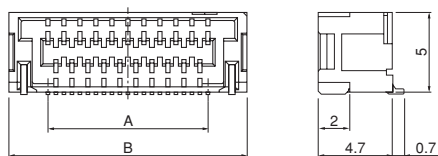
<Top entry type>

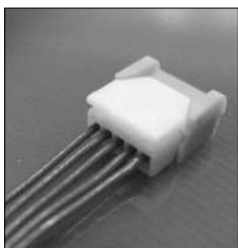
ex. **BM21B-SHLVS-G-TBT**
S...natural (ivory)
LE...light blue

<Side entry type>

ex. **SM21B-SHLVS-G-TB**
S...natural (ivory)
LE...light blue

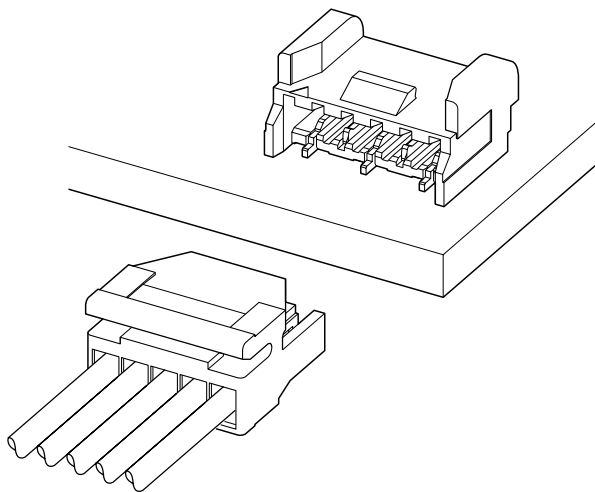
Side entry type





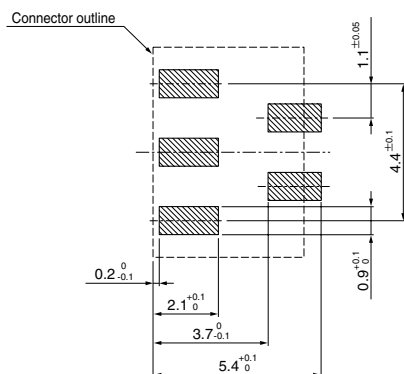
SFG CONNECTOR

1.1mm pitch/Disconnectable Crimp style connectors



This SFG connector is a wire-to-board connector compatible with small space. It is used for power supply of LED backlight in Liquid Crystal Display Television set.

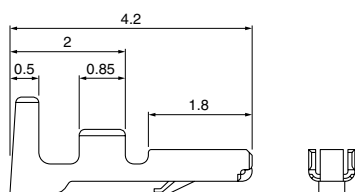
- Withstand high voltage
- Secure locking structure
- Halogen-free



Note: 1. The above figure is the figure viewed from the connector mounting side.

2. Tolerances are non-cumulative: ± 0.05 mm for all centers. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Specifications

- Current rating: 1.0 A AC, DC (AWG #28)
- Voltage rating: 200 V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 20 mΩ max.
After environmental tests/ 40 mΩ max.
- Insulation resistance: 100 MΩ min.
- Withstanding voltage: 600 VAC/minute
- Applicable wire: Conductor size/ AWG #30 to #28
Insulation O.D./ 0.72 to 0.9 mm

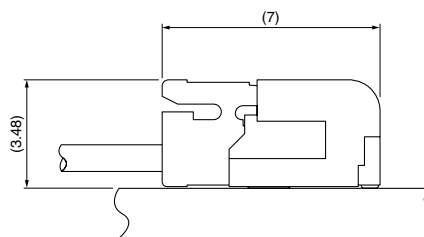
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

* Compliant with RoHS.

Standards

Recognized E60389



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SSFG-003T-P0.2	0.05~0.08	30~28	0.72~0.9	25,000

Material and Finish

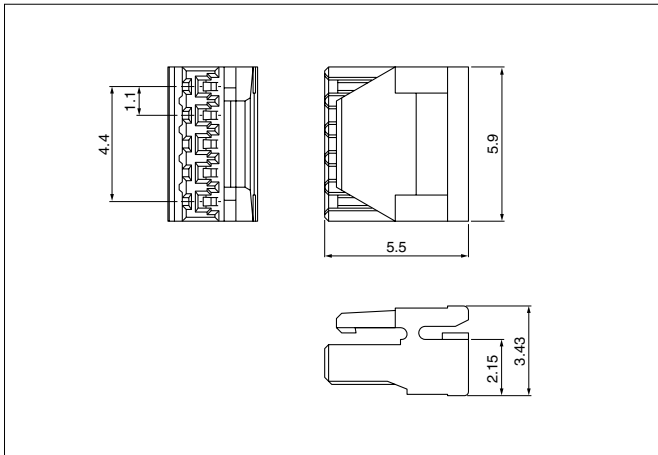
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SSFG-003T-P0.2	AP-K2N	MKS-L-10-3	MK/SSFG-003-02	APLMK SSFG003-02
		—	—	—

SFG CONNECTOR

Housing

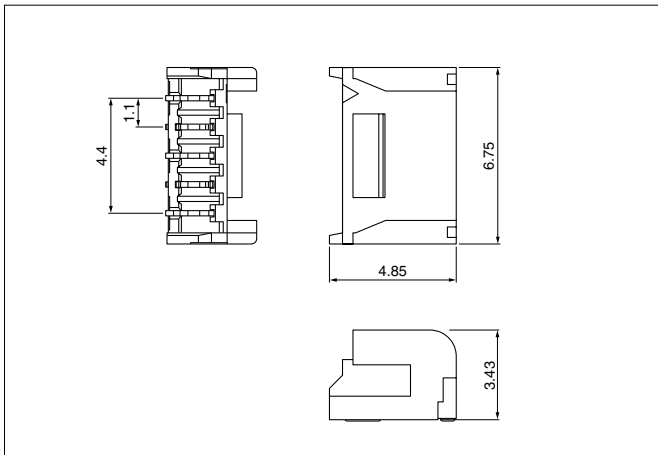


Circuits	Model No.	Q'ty / bag
5	SFGR-05V-S	1,000
Material		

PA 66, UL94V-0, natural (white)

RoHS compliance

Header

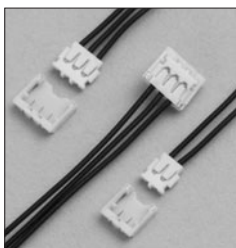


Circuits	Model No.	Q'ty / reel
5	SM05B-SFGH-TF(HF)	3,000
Material and Finish		

Contact A, B: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Base housing: Modified PA 6T, UL94V-0, gray

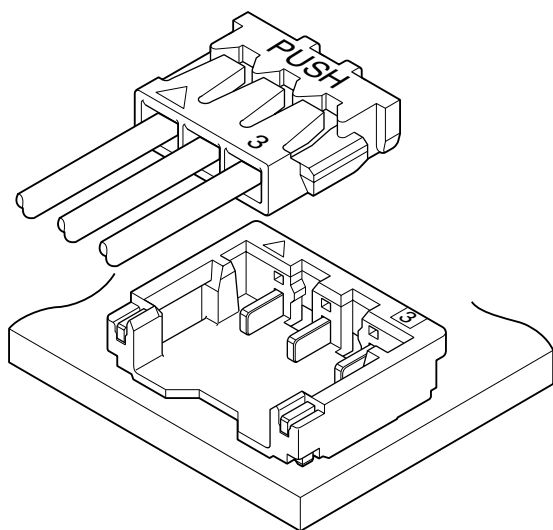
RoHS compliance

Note: The product listed above is supplied on embossed-tape.



ACH CONNECTOR

1.2mm pitch/Disconnectable Crimp style connectors



This ACH connector is compact and low profile type, height 1.4mm and width 4.3mm, 1.2mm pitch wire-to-board connector.

- Top entry but side feed type
- Connector for DC power supply
- Corresponding to sucking nozzle of pick and place machine

Specifications

- Current rating: 2 A/1 to 3 circuits AC, DC (AWG #28)
1.5 A/4, 5 circuits AC, DC (AWG #28)
- Voltage rating: 50 V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 10 mΩ max.
After environmental tests/ 20 mΩ max.
- Insulation resistance: 100 MΩ min.
- Withstanding voltage: 500 VAC/minute
- Applicable wire: Conductor size/ AWG #32 to #28
Insulation O.D./ 0.38 to 0.63 mm

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

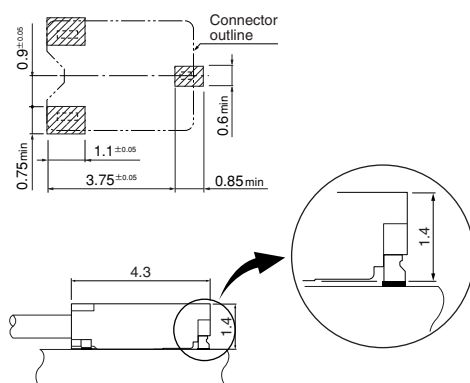
* Compliant with RoHS.

Standards

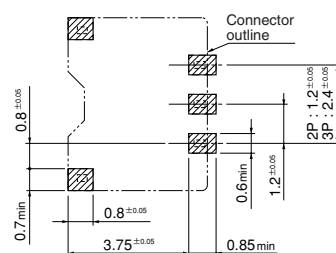
Recognized E60389

Certified LR20812

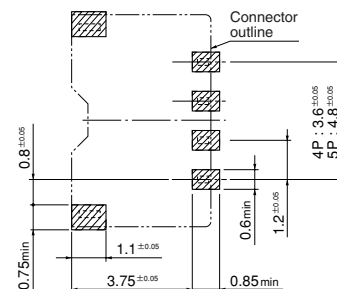
<Single circuit>



<2, 3 circuits>

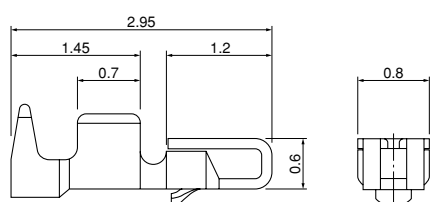


<4, 5 circuits>



Note: 1. The above figure is the figure viewed from the connector mounting side.
2. Tolerances are non-cumulative: ±0.05mm for all centers.
3. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SACH-003G-P0.2	0.05 ~ 0.08	30~28	0.5 ~ 0.63	30,000
SACH-003G-P0.2B	0.032~0.05	32~30	0.38~0.5	30,000

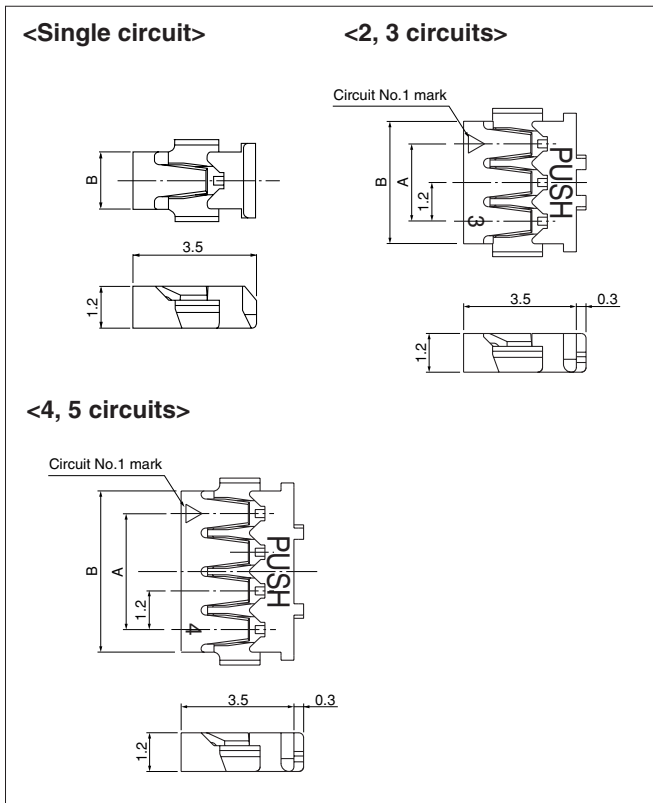
Material and Finish

Copper alloy, nickel-undercoated, gold-plated

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SACH-003G-P0.2	AP-K2N	MKS-L-10-3	MK/SACH-003-02	APLMK SACH003-02
SACH-003G-P0.2B		MKS-L-10-3	MK/SACH-003-02	APLMK SACH003-02

Housing



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
1	ACHR-01V-A-S	—	1.6	2,000
2	ACHR-02V-S	1.2	2.6	1,000
3	ACHR-03V-S	2.4	3.8	1,000
4	ACHR-04V-A-S	3.6	5.0	1,000
5	ACHR-05V-A-S	4.8	6.2	1,000

Material

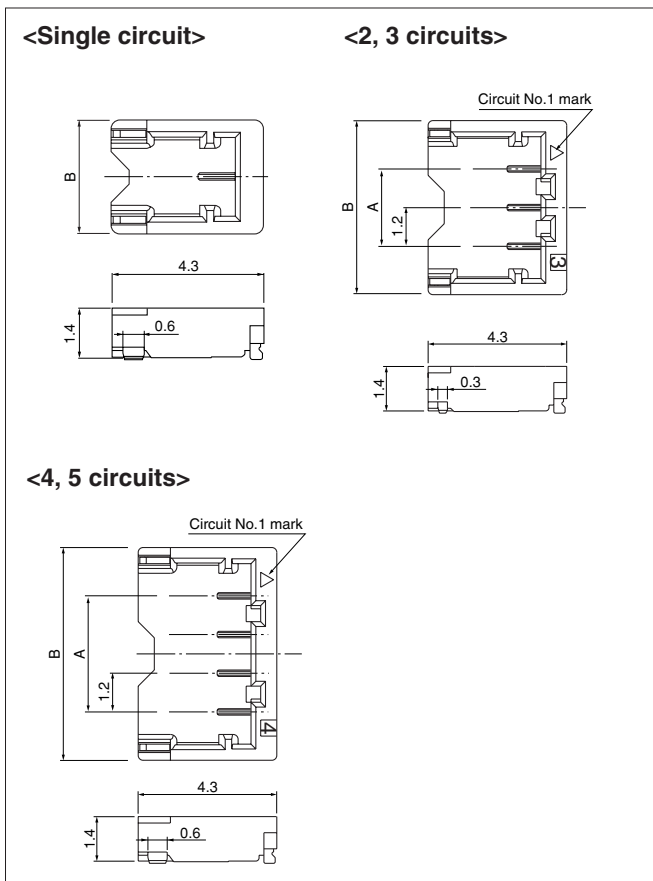
PBT, UL94V-0, natural (white)

RoHS compliance

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **ACHR-02V-00**
S...natural (white)
K...black

Shrouded header



Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
1	BM01B-ACHSS-A-GAN-ETF	—	3.2	4,500
2	BM02B-ACHSS-A-GAN-ETF	1.2	4.2	4,500
3	BM03B-ACHSS-A-GAN-ETF	2.4	5.4	4,500
4	BM04B-ACHSS-A-GAN-ETF	3.6	6.6	4,500
5	BM05B-ACHSS-A-GAN-ETF	4.8	7.8	4,500

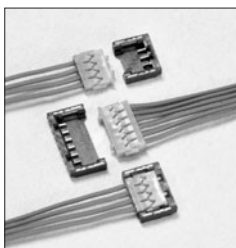
Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated (nickel-stripe)
Housing: Heat resisting resin, UL94V-0, natural (ivory)
Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance

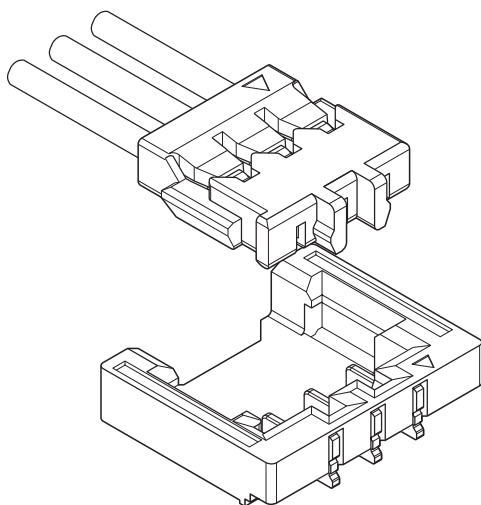
This product displays (LF)(SN) on a label.
<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **BM02B-ACHSS-A-GAN-TF**
S...natural (ivory)
K...black



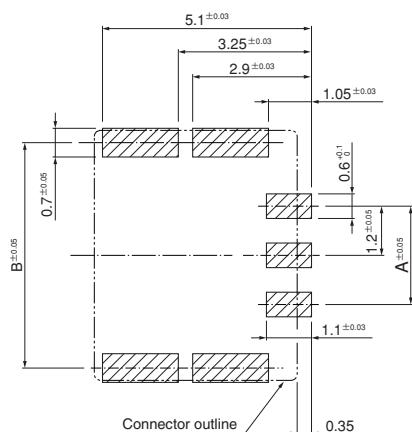
ACHF CONNECTOR

1.2mm pitch/Disconnectable Crimp style connectors

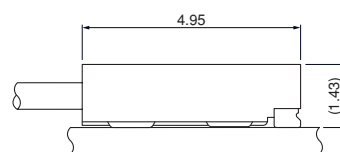


This ACHF connector is compact and low profile type, height 1.43mm and width 4.95mm, 1.2mm pitch wire-to-board connector.

- High-strength
- Top entry but side feed type
- Connector for power supply (2.5A)



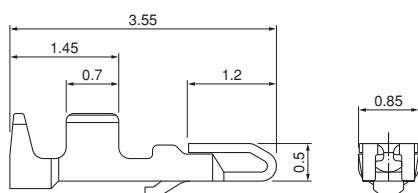
Circuits	Dimensions (mm)	
	A	B
3	2.4	5.5
4	3.6	6.7
6	6.0	9.1



Note: 1. The above figure is the figure viewed from the connector mounting side.

2. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SACHF-003GAC-P0.2	0.05~0.08	30~28	0.5~0.63	40,000

Material and Finish

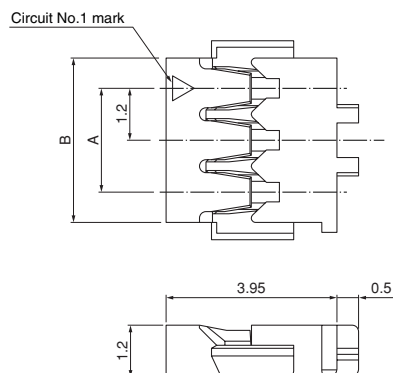
Copper alloy, nickel-undercoated, gold-plated

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SACHF-003GAC-P0.2	AP-K2N	MKS-L-10-4	MK/SACHF-003-02	APLMK SACHF003-02
		—	—	—

ACHF CONNECTOR

Housing



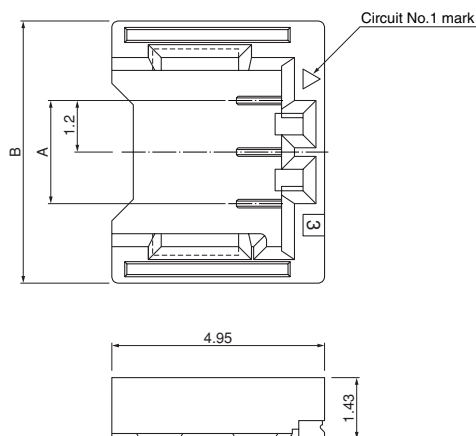
Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
3	ACHFR-03V-H	2.4	3.8	1,000
4	ACHFR-04V-H	3.6	5.0	1,000
6	ACHFR-06V-H	6.0	7.4	1,000

Material

PBT, UL94V-0, gray

RoHS compliance

Shrouded header

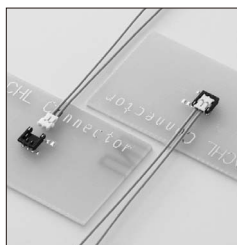


Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
3	BM03B-ACHFKS-GACN-ETF	2.4	6.1	6,000
4	BM04B-ACHFKS-GACN-ETF	3.6	7.3	6,000
6	BM06B-ACHFKS-GACN-ETF	6.0	9.7	6,000

Material and Finish

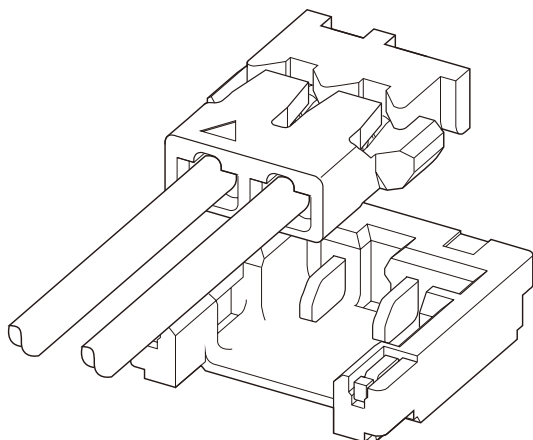
Contact: Copper alloy, nickel-undercoated, gold-plated (nickel-stripe)
Housing: Heat resisting resin, UL94V-0, black
Reinforcement: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.
Note: The products listed above are supplied on embossed-tape.



ACHL CONNECTOR

1.2mm pitch/Disconnectable Crimp style connectors



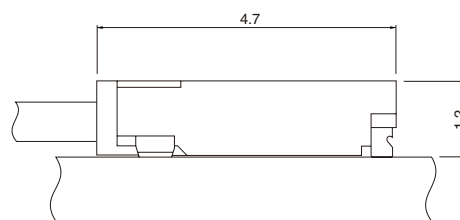
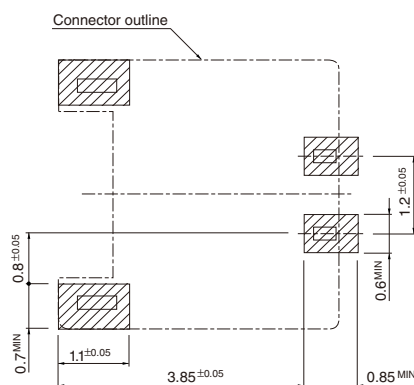
This connector is stacking height 1.2mm and 1.2mm pitch.
In addition, in spite of it, rated current is 2A with wire size AWG#28.
And about the crimping tool such as the applicator, it is possible to use that of ACH connector.

- Top entry but side feed type
- Connector for power supply
- Corresponding to sucking nozzle of pick and place machine

Specifications

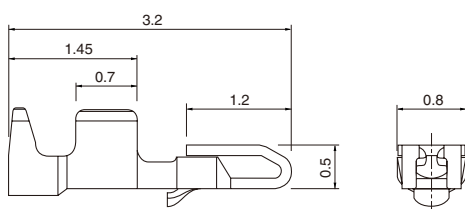
- Current rating: 2.0A AC, DC (AWG #28)
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10mΩ max.
After environmental testing/20mΩ max.
- Insulation resistance: 100MΩ min.
- Withstanding voltage: 500V AC/minute
- Applicable wire: Conductor size/AWG #30 to #28
Insulation O.D./0.50 to 0.63mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

PC board layout and Assembly layout



Note: 1. Tolerances are non-cumulative; $\pm 0.05\text{mm}$ for all centers.
 2. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SACHL-003G-P0.2	0.05~0.08	30~28	0.50~0.63	30,000

Material and Finish

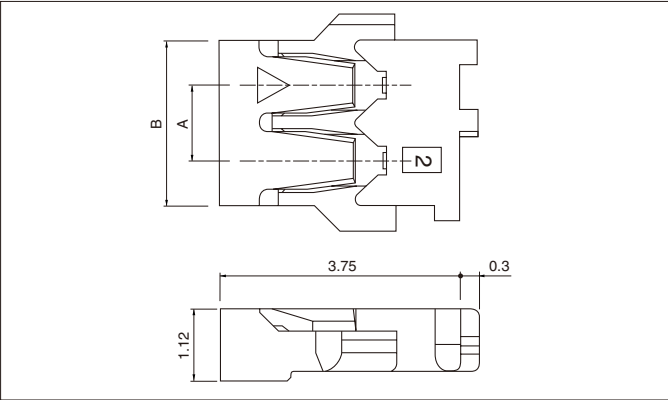
Copper alloy, nickel-undercoated, gold-plated

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SACHL-003G-P0.2	AP-K2N	MKS-L-10-3	MK/SACH-003-02	APLMK SACH003-02

ACHL CONNECTOR

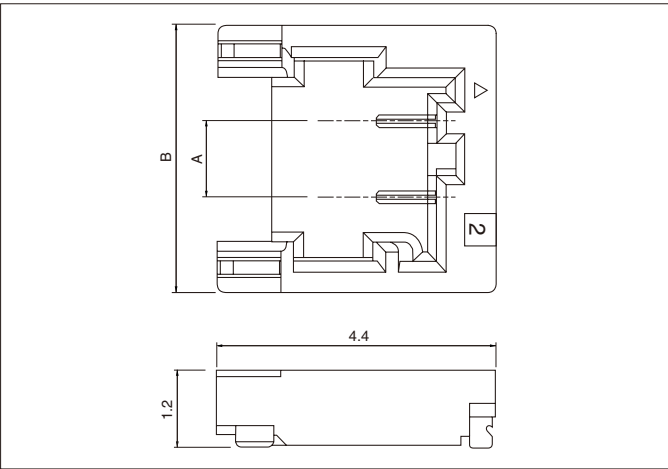
Housing



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	ACHLR-02V-S	1.2	2.6	1,000
Material				
PBT, UL94V-0, natural				

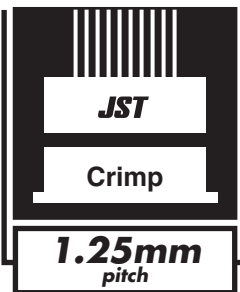
RoHS compliance

Shrouded header



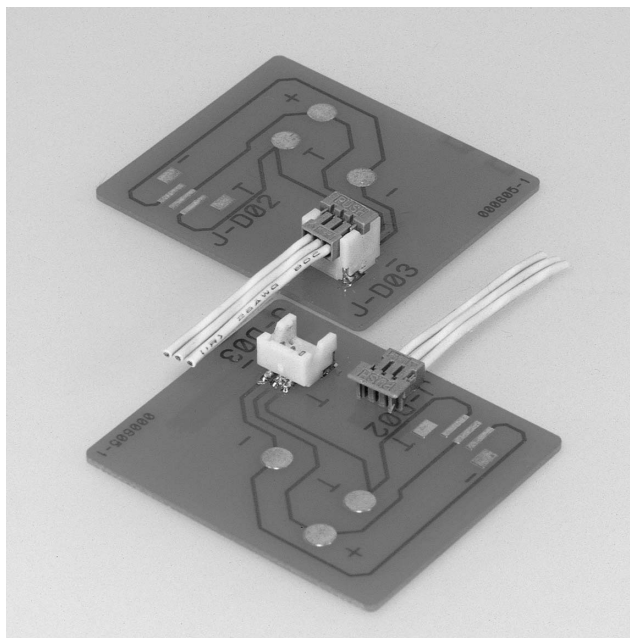
Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
2	BM02B-ACHLKS-GAN-ETF	1.2	4.2	5,000
Material and Finish				
Contact: Copper alloy, nickel-undercoated, gold-plated (nickel-stripe)				
Housing: Heat resisting resin, UL94V-0, black				
Reinforcement: Copper alloy, copper-undercoated, tin-plated (reflow treatment)				

RoHS compliance This product displays (LF)(SN) on a label.

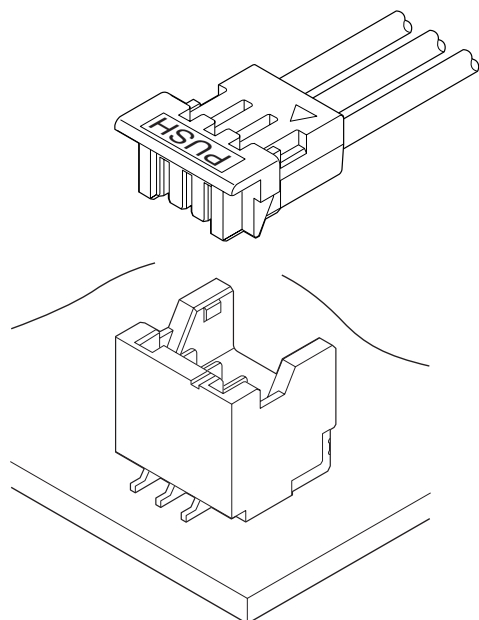


AGH CONNECTOR

Disconnectable Crimp style connectors



1.25mm pitch crimp type connector.
This connector system has excellent operational advantages due to its top entry style. In addition, with the wires on the side, it is low profile, similar to a side entry style.



Features

• Miniaturization

Developed for mobile phone battery connection. The mounting height of 6.1mm, but can be reduced to 4.4mm depending on the design at low profile header side.

• Distortion resistant construction

Because of the unique rib structure of the housing, the connector is resistant to distortion when extracting.

• Applicable to surface mounting technology

The header has a sufficient area for suction for the use of automatic surface mounting system.

Specifications

- Current rating: 1.0A AC, DC (AWG #26)
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
 (including temperature rise in applying electrical current)
- Contact resistance: Initial value/20m Ω max.
 After environmental testing/30m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable wire: AWG #30 to #26
 Insulation O.D./0.8 to 1.0mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

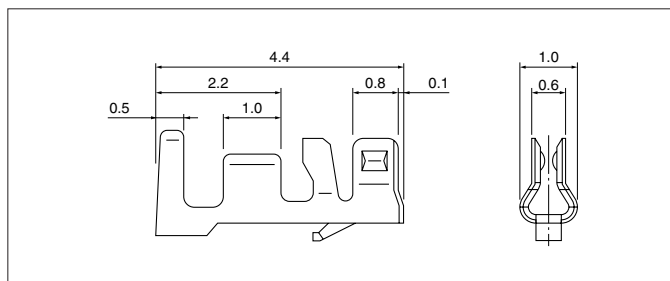
Standards

Recognized E60389

J50014042

AGH CONNECTOR

Contact



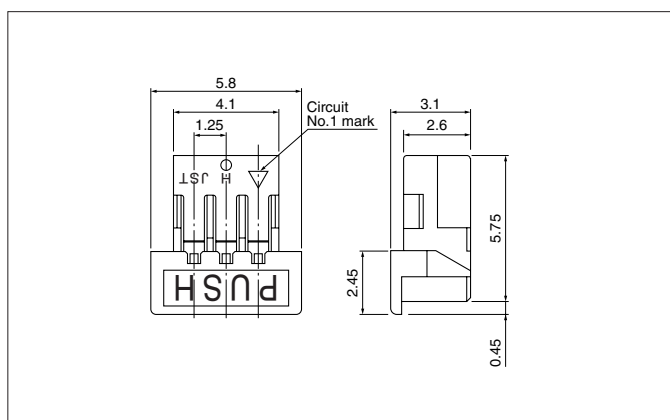
Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SAGH-002GU-P0.3	0.05 to 0.13	30 to 26	0.8 to 1.0	20,000

Material and Finish

Phosphor bronze, nickel-undercoated, gold-plated

RoHS compliance

Housing



Circuits	Model No.	Q'ty / bag
3	AGHR-03V-1-H	5,000

Material

PBT, UL94V-0, gray

RoHS compliance

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

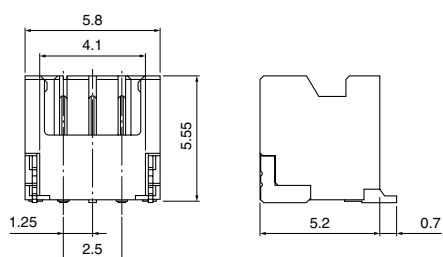
ex. **AGHR-03V-1-00**

H...gray

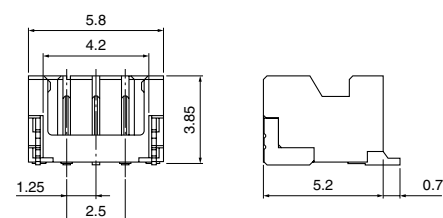
(blank)...natural

Shrouded header

<5.6mm type>



<3.9mm type>



● 5.6mm type

Circuits	Model No.	Q'ty / reel
3	BM03B5.6-AGHS-GG-TF	1,000

Material and Finish

Contact: Phosphor bronze, nickel-undercoated,
Mating part: gold-plated
Solder tail: tin-plated (reflow treatment)
Housing: PA 9T, UL94V-0, natural
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

● 3.9mm type

Circuits	Model No.	Q'ty / reel
3	BM03B3.9-AGHS-GH-TF	1,250

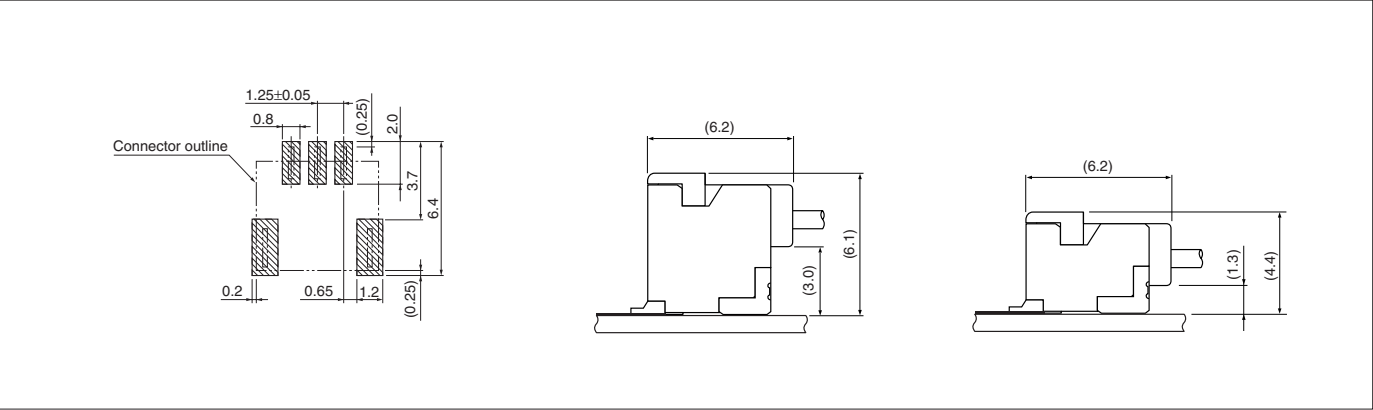
Material and Finish

Contact: Phosphor bronze, nickel-undercoated,
Mating part: gold-plated 0.4μm
Solder tail: gold-plated flash
Housing: PA9T, UL94V-0, natural
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

AGH CONNECTOR

PC board layout (viewed from component side) and Assembly layout

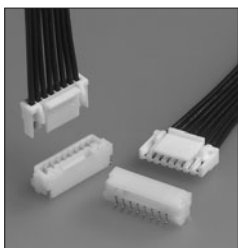


Note:
1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Crimping machine, Applicator

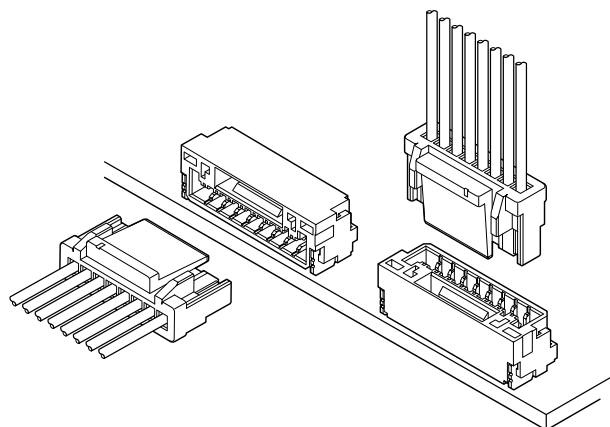
Contact	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies
SAGH-002GU-P0.3	AP-K2N	MKS-L-10-3	MK/SAGH-002-03	APLMK SAGH002-03
		*MKS-SC	SC/SAGH-002-03	APLSC SAGH002-03

Note: *Strip-crimp applicator



GH CONNECTOR

1.25mm pitch/Disconnectable Crimp style connectors



Developed for PDP, LCD or small electronics equipment.
This low insertion force type connector realizes easier mating operation. The basic concept of the contact part of this connector is equivalent to the performance proven SHL connector.

- Secure locking structure
- Contact lock structure
- Prevent deformation of contacts

Specifications

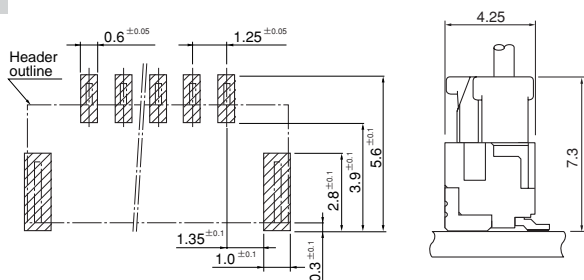
- Current rating: 1.0A AC, DC (AWG #26)
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/30m Ω max.
After environmental testing/50m Ω max.
- Insulation resistance: 100M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable wire: Conductor size/AWG #30 to #26
Insulation O.D./0.8 to 1.0mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

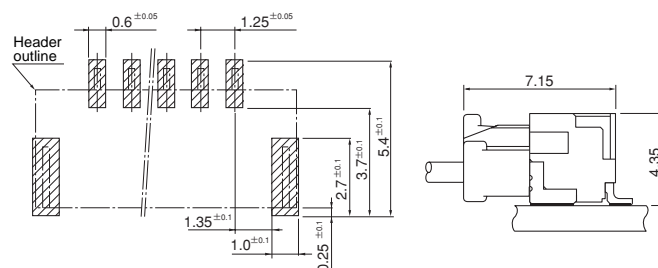
Recognized E60389

PC board layout (viewed from component side) and Assembly layout

Top entry type

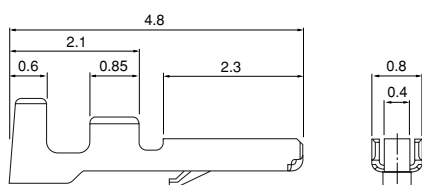


Side entry type



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
 2. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SSHL-002T-P0.2	0.05~0.13	30~26	0.8~1.0	23,000

Material and Finish

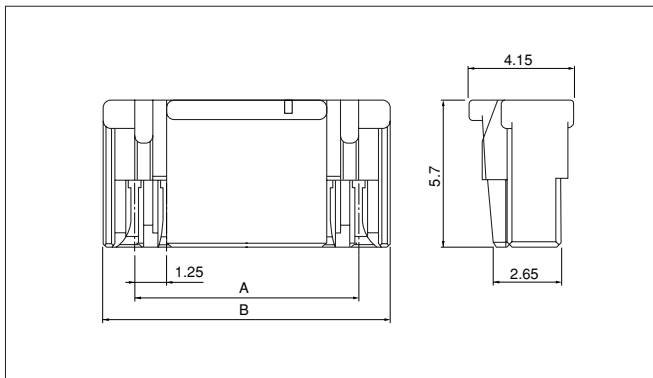
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Note: 1. Contact JST for gold-plated products.
 2. This contact can be applied only for GH connector.
 SSLH-003()-P0.2 cannot be applied for GH connector.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SSHL-002T-P0.2	AP-K2N	MKS-L-10-3	MK/SSLH-002-02	APLMK SSLH002-02
		—	—	—

Housing



Circuits	Model No	Dimensions (mm)		Q'ty / box
		A	B	
2	GHR-02V-S	1.25	3.75	4,000
3	GHR-03V-S	2.50	5.00	3,000
4	GHR-04V-S	3.75	6.25	2,500
5	GHR-05V-S	5.00	7.50	2,000
6	GHR-06V-S	6.25	8.75	1,500
7	GHR-07V-S	7.50	10.00	1,500
8	GHR-08V-S	8.75	11.25	1,000
9	GHR-09V-S	10.00	12.50	1,000
10	GHR-10V-S	11.25	13.75	1,000
11	GHR-11V-S	12.50	15.00	1,000
12	GHR-12V-S	13.75	16.25	1,000
13	GHR-13V-S	15.00	17.50	1,000
14	GHR-14V-S	16.25	18.75	500
15	GHR-15V-S	17.50	20.00	500

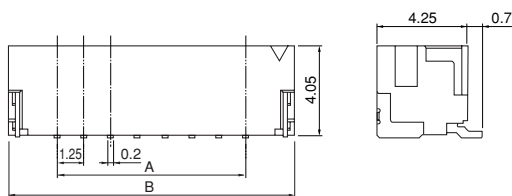
Material

PBT, UL94V-0, natural (white)

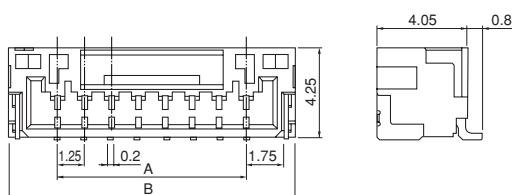
RoHS compliance

Shrouded header

Top entry type



Side entry type



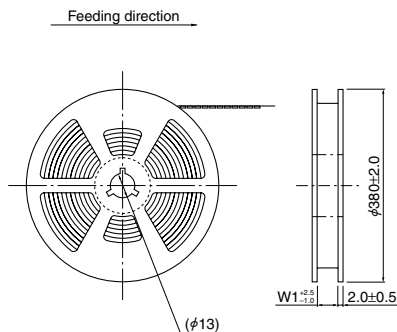
Circuits	Model No.		Dimensions (mm)		Q'ty / reel
	Top entry type	Side entry type	A	B	
2	BM02B-GHS-TBT	SM02B-GHS-TB	1.25	5.75	2,500
3	BM03B-GHS-TBT	SM03B-GHS-TB	2.50	7.00	2,500
4	BM04B-GHS-TBT	SM04B-GHS-TB	3.75	8.25	2,500
5	BM05B-GHS-TBT	SM05B-GHS-TB	5.00	9.50	2,500
6	BM06B-GHS-TBT	SM06B-GHS-TB	6.25	10.75	2,500
7	BM07B-GHS-TBT	SM07B-GHS-TB	7.50	12.00	2,500
8	BM08B-GHS-TBT	SM08B-GHS-TB	8.75	13.25	2,500
9	BM09B-GHS-TBT	SM09B-GHS-TB	10.00	14.50	2,500
10	BM10B-GHS-TBT	SM10B-GHS-TB	11.25	15.75	2,500
11	BM11B-GHS-TBT	SM11B-GHS-TB	12.50	17.00	2,500
12	BM12B-GHS-TBT	SM12B-GHS-TB	13.75	18.25	2,500
13	BM13B-GHS-TBT	SM13B-GHS-TB	15.00	19.50	2,500
14	BM14B-GHS-TBT	SM14B-GHS-TB	16.25	20.75	2,500
15	BM15B-GHS-TBT	SM15B-GHS-TB	17.50	22.00	2,500

Material and Finish

Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Housing: PA9T, UL94V-0, natural (ivory)
Solder tab: Brass, copper-undercoated, tin-plated

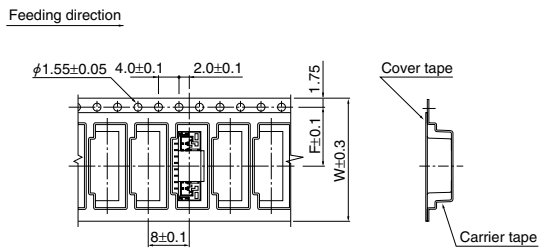
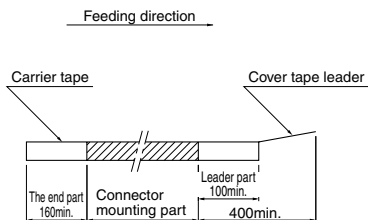
RoHS compliance This product displays (LF)(SN) on a label.
Note: Contact JST for gold-plated products.

Taping specifications



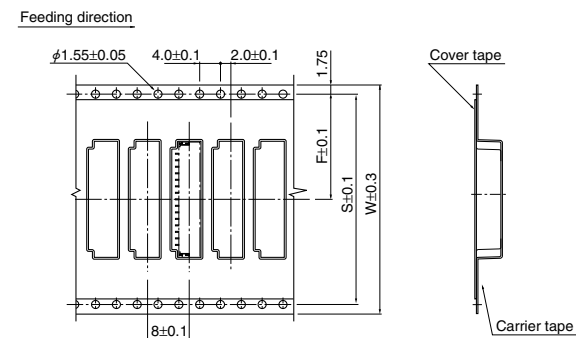
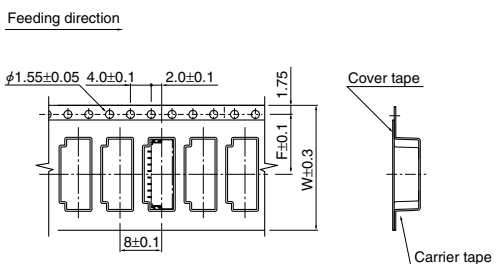
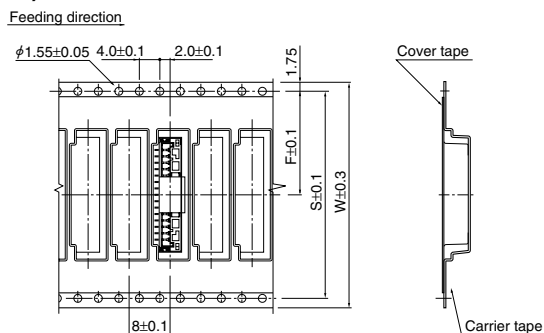
Top entry type
(2 to 9 circuits)

(10 to 15 circuits)



Side entry type
(2 to 11 circuits)

(12 to 15 circuits)



Top entry type

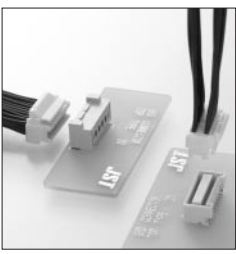
Circuits	Dimensions (mm)			Reel dimensions (mm)	Q'ty / reel
	F	S	W	W1	
2	7.5	—	16.0	17.5	2,500
3 to 9	11.5	—	24.0	25.5	2,500
10 to 12	14.2	28.4	32.0	33.5	2,500
13 to 15	20.2	40.4	44.0	45.5	2,500

Side entry type

Circuits	Dimensions (mm)			Reel dimensions (mm)	Q'ty / reel
	F	S	W	W1	
2 to 5	7.5	—	16.0	17.5	2,500
6 to 11	11.5	—	24.0	25.5	2,500
12 to 15	14.2	28.4	32.0	33.5	2,500

Note:

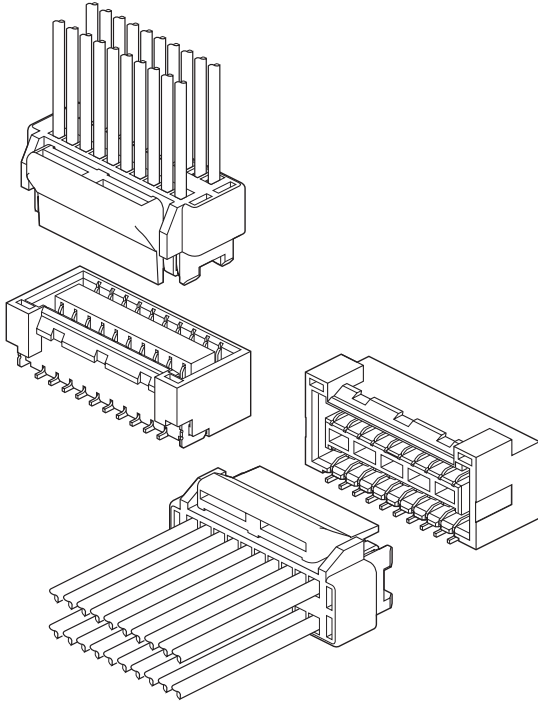
- Specifications conform to JIS C 0806. The tape width, connector loading recess square hole dimensions, etc. are determined by the number of circuits and external shape of the connector to be loaded.
- Specifications are subject to change without prior notice.



GHD CONNECTOR



1.25mm pitch/Disconnectable Crimp style connectors



To meet the requirement of the high density mounting on PC board of flat panel TV, AV equipments etc., this connector is designed to the double-row type of 1.25mm pitch. Its operability is very well, in spite of the small size.

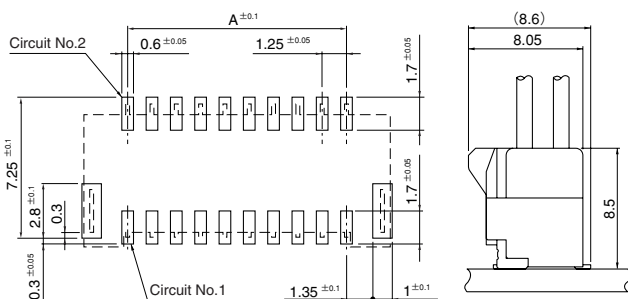
- **Secure locking structure**
- **Low insertion force**
- **Prevention of contact deformation**
- **Suction area for picking up**

Specifications

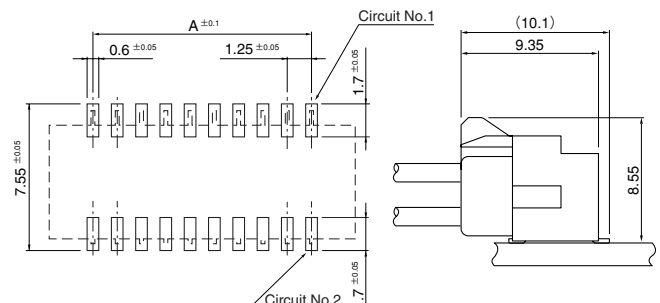
- Current rating: 1.0A AC, DC (AWG #26)
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance:
 - Initial value/Top entry type: 30m Ω max.
 - Side entry type: 50m Ω max
 - After environmental testing/Top entry type: 50m Ω max.
 - Side entry type: 70m Ω max
- Insulation resistance: 100M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable wire: Conductor size/AWG #30 to #26
Insulation O.D./0.8 to 1.0mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

PC board layout and Assembly layout

Top entry type



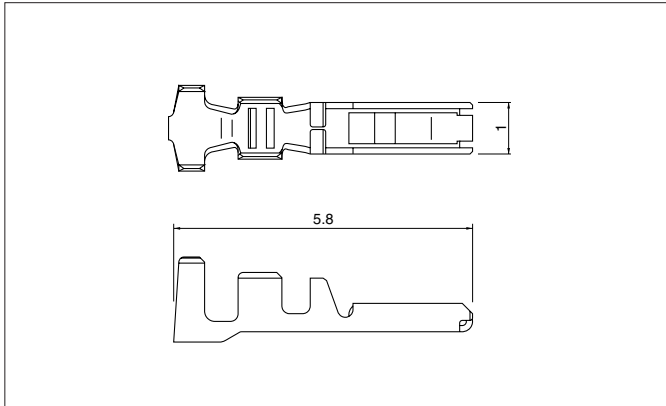
Side entry type



Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

GHD CONNECTOR

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty/ reel
	mm ²	AWG#		
SGHD-002GA-P0.2	0.05~0.13	30~26	0.8~1.0	20,000

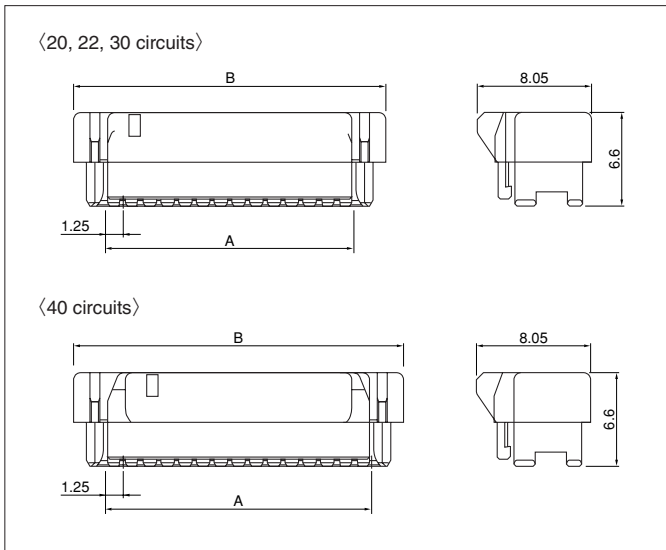
Material and Finish

Phosphor bronze, nickel-undercoated, selective gold-plated

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SGHD-002GA-P0.2	AP-K2N	MKS-L-10-3	MK/SSHL-002-02	APLMK SSSL002-02
		—	—	—

Housing



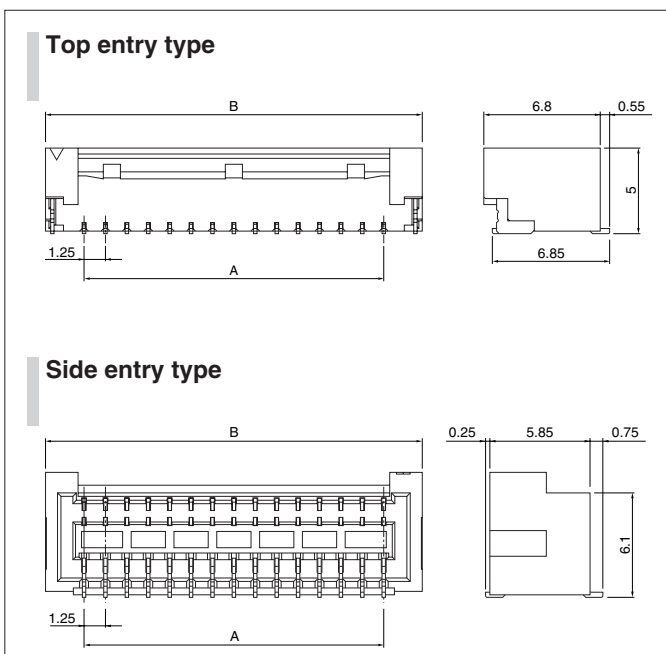
Circuits	Model No.	Dimensions (mm)		Q'ty/ box
		A	B	
20	GHDR-20V-S (F)	11.25	15.75	1,000
22	GHDR-22V-S (F)	12.50	17.00	1,000
30	GHDR-30V-S (F)	17.50	22.00	1,000
40	GHDR-40V-S (F)	23.75	28.25	1,000

Material

PBT, UL94V-0, natural (white)

RoHS compliance

Shrouded header



Circuits	Model No.	Dimensions (mm)		Q'ty/ reel
		A	B	
20	BM20B-GHDS-G-TF	11.25	15.75	1,250
22	BM22B-GHDS-G-TF	12.50	17.00	1,250
30	BM30B-GHDS-G-TF	17.50	22.00	1,250
40	BM40B-GHDS-G-TF	23.75	28.25	1,250

Material and Finish

Contact: Phosphor bronze, nickel-undercoated, selective gold-plated
Housing: PA 9T, UL94V-0, natural (ivory)
Reinforcement: Brass, copper-undercoated, tin-plated

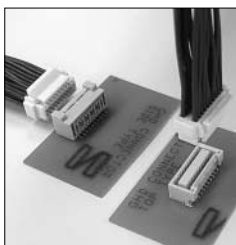
RoHS compliance This product displays (LF)(SN) on a label.

Circuits	Model No.	Dimensions (mm)		Q'ty/ reel
		A	B	
20	SM20B-GHDS-GAN-TF	11.25	15.75	900
30	SM30B-GHDS-GAN-TF	17.50	22.00	900

Material and Finish

Contact: Phosphor bronze, nickel-undercoated, selective gold-plated
Housing: LCP, UL94V-0, natural (ivory)

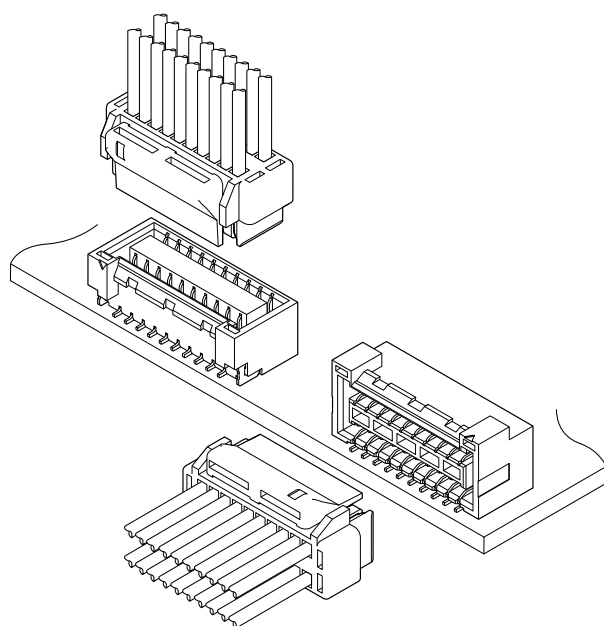
RoHS compliance



GHD CONNECTOR/TIN-PLATED PRODUCT



1.25mm pitch/Disconnectable Crimp style connectors



In order to correspond to the various high-density PC board designing, this GHD connector is designed as 1.25mm pitch double row type connector. Provide a full lineup of 10 to 40 circuits for top and side entry types. (8 circuits is currently planned.) Its operability is very well, in spite of the small size with tin-plated.

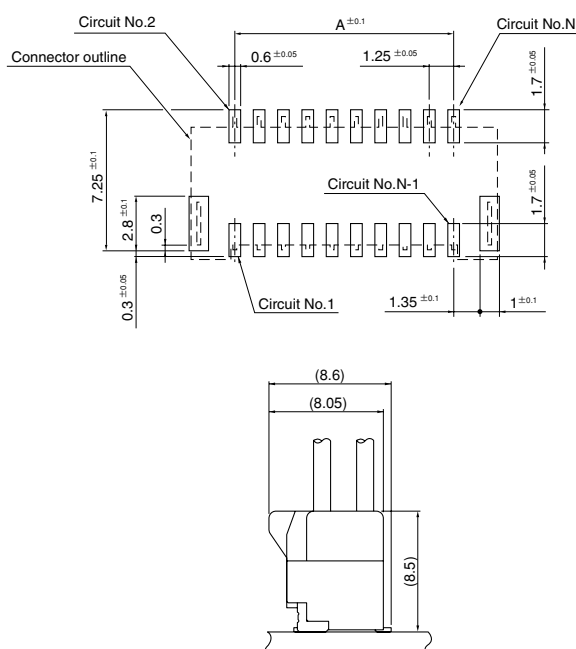
- **Secure locking structure**
- **Low insertion force**
- **Prevention of contact deformation**
- **Suction area for picking up**

Specifications

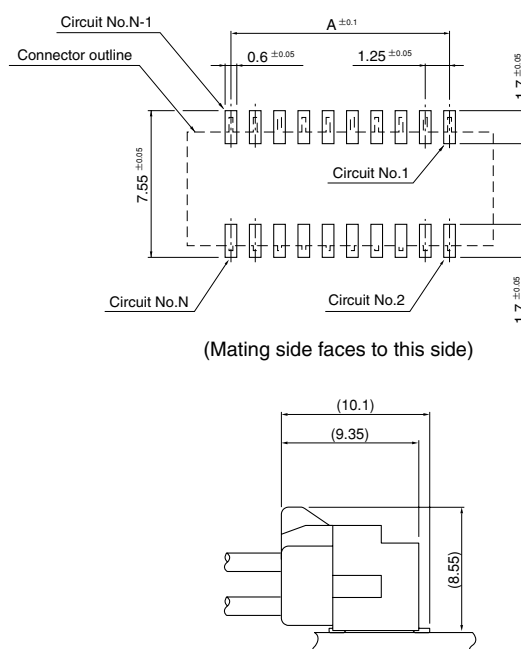
- Current rating: 1.25 A AC, DC (AWG #26)
1.0 A AC, DC (AWG #28)
0.8 A AC, DC (AWG #30)
- Voltage rating: 50 V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance:
 - Initial value/ Top entry type: 30 mΩ max.
 - Side entry type: 50 mΩ max
 - After environmental tests/ Top entry type: 50 mΩ max.
 - Side entry type: 70 mΩ max
- Insulation resistance: 100 MΩ min.
- Withstanding voltage: 500 VAC/minute
- Applicable wire: Conductor size/ AWG #32 to #26
Insulation O.D./ 0.4 to 1.0 mm

- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Compliant with RoHS.

Top entry type



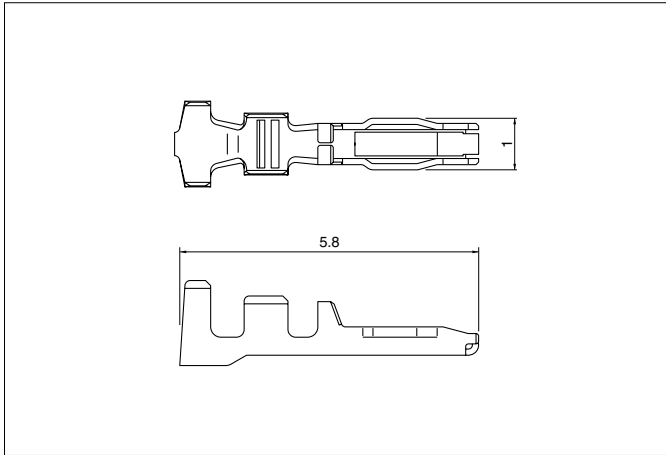
Side entry type



Note: 1. The above figure is the figure viewed from the connector mounting side
2. Tolerance for the centers of pattern on PCB is ±0.05, and shall be not cumulative more than ±0.1.
The dimensions above should serve as a guideline. Contact JST for details.

GHD CONNECTOR/TIN-PLATED PRODUCT

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SGHD-002T-C0.2A	0.05 ~ 0.13	30~26	0.76~1.0	25,000
SGHD-003T-C0.2A	0.032~0.08	32~28	0.4 ~0.8	25,000

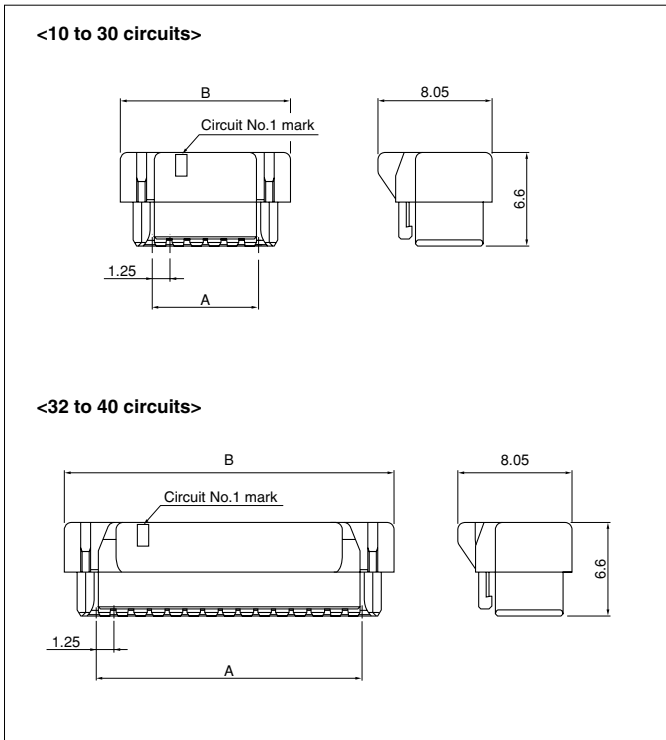
Material and Finish

Copper alloy, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SGHD-002T-C0.2A	AP-K2N	MKS-L-10-3	MK/SSHL-002-02	APLMK SSSL002-02
		—	—	—
SGHD-003T-C0.2A		MKS-L-10-3	MK/SGHD-003-02	APLMK SGHD003-02
		—	—	—

Housing



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
10	GHDR-10V-S-1 (F)	5.00	9.50	1,000
12	GHDR-12V-S-1 (F)	6.25	10.75	1,000
14	GHDR-14V-S-1 (F)	7.50	12.00	1,000
16	GHDR-16V-S-1 (F)	8.75	13.25	1,000
18	GHDR-18V-S-1 (F)	10.00	14.50	1,000
20	GHDR-20V-S-1 (F)	11.25	15.75	1,000
22	GHDR-22V-S-1 (F)	12.50	17.00	1,000
24	GHDR-24V-S-1 (F)	13.75	18.25	1,000
26	GHDR-26V-S-1 (F)	15.00	19.50	1,000
28	GHDR-28V-S-1 (F)	16.25	20.75	1,000
30	GHDR-30V-S-1 (F)	17.50	22.00	1,000
32	GHDR-32V-S-1 (F)	18.75	23.25	1,000
34	GHDR-34V-S-1 (F)	20.00	24.50	1,000
36	GHDR-36V-S-1 (F)	21.25	25.75	1,000
38	GHDR-38V-S-1 (F)	22.50	27.00	1,000
40	GHDR-40V-S-1 (F)	23.75	28.25	1,000

Material

PBT, UL94V-0, natural (white)

RoHS compliance

Note: 8 circuits is currently planned.

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **GHDR-20V-S-1 (F)**

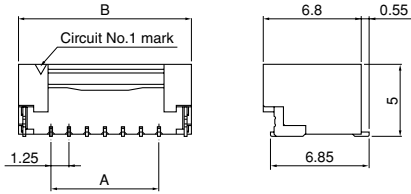
S...natural (white) K...black E...blue TR...tomato red

GHD CONNECTOR/TIN-PLATED PRODUCT

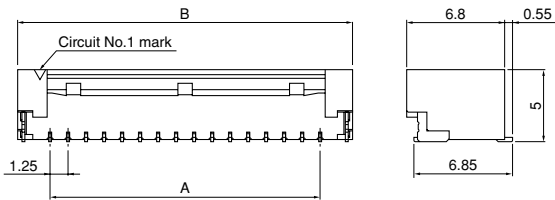
Header

Top entry type

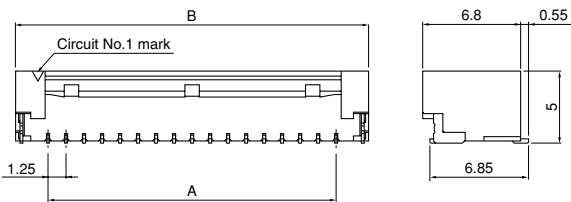
<10 to 14 circuits>



<16 to 32 circuits>

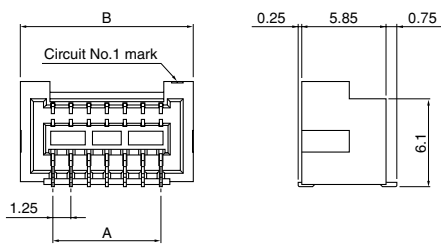


<34 to 40 circuits>

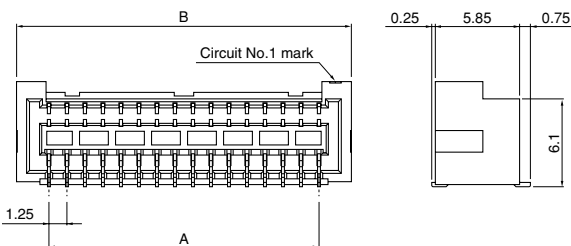


Side entry type

<10 to 14 circuits>



<16 to 40 circuits>



Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
10	BM10B-GHDS-TF	5.00	9.50	1,250
12	BM12B-GHDS-TF	6.25	10.75	1,250
14	BM14B-GHDS-TF	7.50	12.00	1,250
16	BM16B-GHDS-TF	8.75	13.25	1,250
18	BM18B-GHDS-TF	10.00	14.50	1,250
20	BM20B-GHDS-TF	11.25	15.75	1,250
22	BM22B-GHDS-TF	12.50	17.00	1,250
24	BM24B-GHDS-TF	13.75	18.25	1,250
26	BM26B-GHDS-TF	15.00	19.50	1,250
28	BM28B-GHDS-TF	16.25	20.75	1,250
30	BM30B-GHDS-TF	17.50	22.00	1,250
32	BM32B-GHDS-TF	18.75	23.25	1,250
34	BM34B-GHDS-TF	20.00	24.50	1,250
36	BM36B-GHDS-TF	21.25	25.75	1,250
38	BM38B-GHDS-TF	22.50	27.00	1,250
40	BM40B-GHDS-TF	23.75	28.25	1,250

Material

Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)

Housing: PA 9T, UL94V-0, natural (ivory)

Reinforcement: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Note: 8 circuits is currently planned.

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **BM20B-GHDS-TF**

S...natural (ivory) K...black E...blue TR...tomato red

Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
10	SM10B-GHDS-A-TF	5.00	9.50	900
12	SM12B-GHDS-A-TF	6.25	10.75	900
14	SM14B-GHDS-A-TF	7.50	12.00	900
16	SM16B-GHDS-A-TF	8.75	13.25	900
18	SM18B-GHDS-A-TF	10.00	14.50	900
20	SM20B-GHDS-A-TF	11.25	15.75	900
22	SM22B-GHDS-A-TF	12.50	17.00	900
24	SM24B-GHDS-A-TF	13.75	18.25	900
26	SM26B-GHDS-A-TF	15.00	19.50	900
28	SM28B-GHDS-A-TF	16.25	20.75	900
30	SM30B-GHDS-A-TF	17.50	22.00	900
32	SM32B-GHDS-A-TF	18.75	23.25	900
34	SM34B-GHDS-A-TF	20.00	24.50	900
36	SM36B-GHDS-A-TF	21.25	25.75	900
38	SM38B-GHDS-A-TF	22.50	27.00	900
40	SM40B-GHDS-A-TF	23.75	28.25	900

Material and Finish

Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)

Housing: PA 9T, UL94V-0, natural (ivory)

RoHS compliance This product displays (LF)(SN) on a label.

Note: 8 circuits is currently planned.

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **SM20B-GHDS-A-TF**

S...natural (ivory) K...black E...blue TR...tomato red

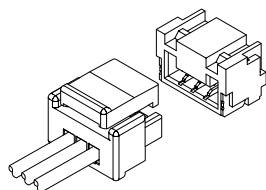


GVH CONNECTOR

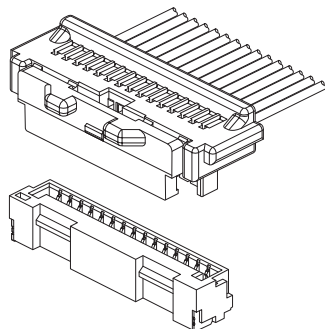
1.25mm pitch/Disconnectable Crimp style connectors



Side entry type



Side feed type



This connector can be mounted on the same PC board layout as GH connector, and has the sucking area on the top of connector without suction tape. The side feed type for drawing out the wire laterally that considers the workability of mating and normal side entry type has been developed.

- Secure locking structure
- Prevention of contact deformation
- Sucking area

Specifications

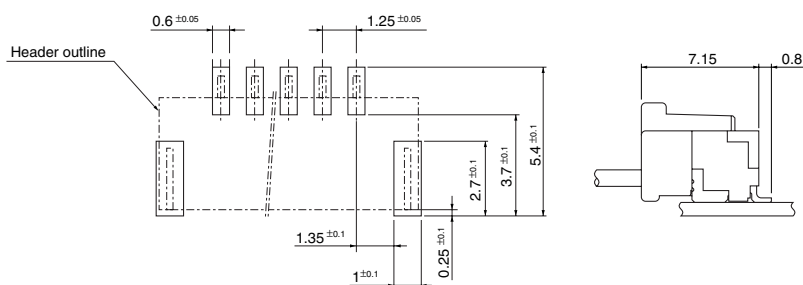
- Current rating: 1.0A AC, DC (AWG #26)
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 30mΩ max.
After environmental testing/ 50mΩ max.
- Insulation resistance: 100MΩ min.
- Withstanding voltage: 500V AC/minute
- Applicable wire: Conductor size/ AWG #30 to #26
Insulation O.D./ 0.8 to 1.0mm

- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

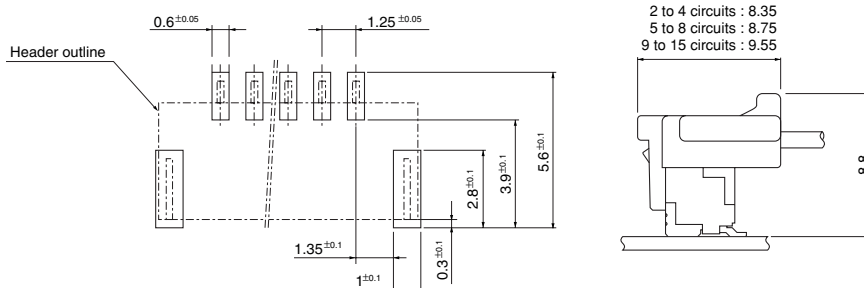
Standards

Recognized E 60389

Side entry type



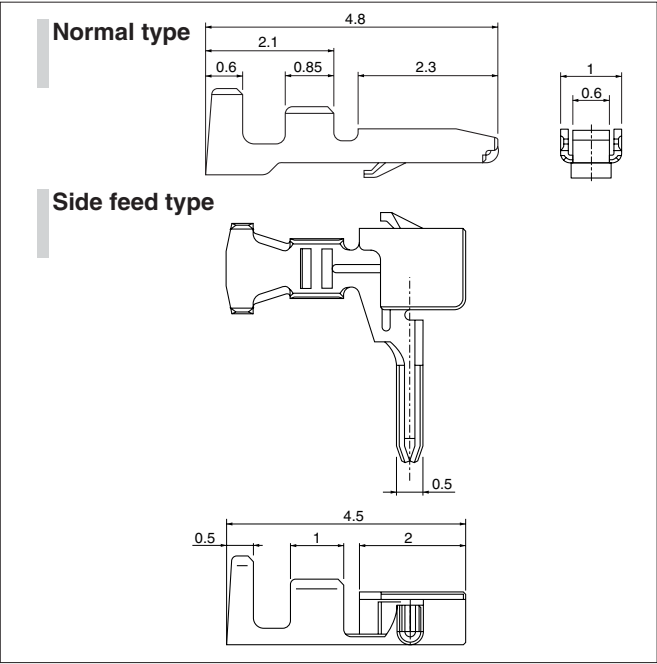
Side feed type



Note: 1. The above figure is the figure viewed from the connector mounting side.
2. Tolerances are non-cumulative: ±0.05mm for all centers.
3. The dimensions above should serve as a guideline. Contact JST for details.

GVH CONNECTOR

Contact



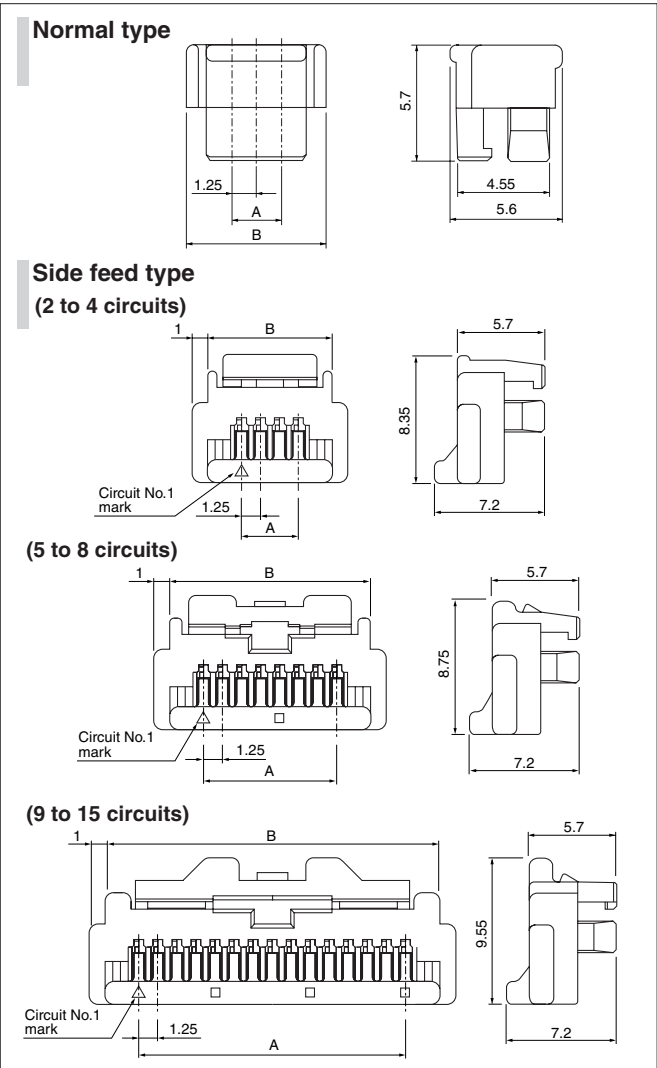
Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SGVH-002T-P0.2	0.05~0.13	30~26	0.8~1.0	23,000
SGVHSF-002T-0.2	0.05~0.13	30~26	0.8~1.0	13,000

Material and Finish				
Side entry type: Phosphor bronze, tin-plated (reflow treatment)				
Side feed type: Brass, tin-plated (reflow treatment)				

RoHS compliance
Note: 1. Contact JST for gold-plated products.
2. Contact JST when it is used for the equipment for outdoor use and the part required high reliability, because the side feed type can correspond with phosphor bronze products.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SGVH-002T-P0.2	AP-K2N	MKS-L-10-3	MK/SSHL-002-02	APLMK SSSL002-02
		—	—	—
SGVHSF-002T-0.2	AP-K2N	MKS-L-10-3	MK/SGVHSF-002-02	APLMK SGVHSF002-02
		—	—	—

Housing



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
3	GVHR-03V-S	2.50	7.00	5,000

Material				
PBT, UL94V-0, natural				

RoHS compliance

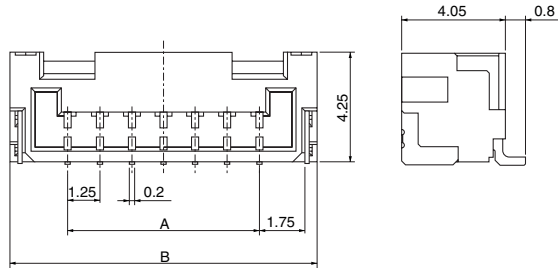
Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	GVHRSF-02V-S	1.25	5.75	4,000
3	GVHRSF-03V-S	2.50	7.00	4,000
4	GVHRSF-04V-S	3.75	8.25	2,500
5	GVHRSF-05V-S	5.00	9.50	2,500
6	GVHRSF-06V-S	6.25	10.75	2,500
7	GVHRSF-07V-S	7.50	12.00	2,000
8	GVHRSF-08V-S	8.75	13.25	2,000
9	GVHRSF-09V-S	10.00	14.50	1,500
10	GVHRSF-10V-S	11.25	15.75	1,500
11	GVHRSF-11V-S	12.50	17.00	1,500
12	GVHRSF-12V-S	13.75	18.25	1,000
13	GVHRSF-13V-S	15.00	19.50	1,000
14	GVHRSF-14V-S	16.25	20.75	1,000
15	GVHRSF-15V-S	17.50	22.00	1,000

Material				
PBT, UL94V-0, natural				

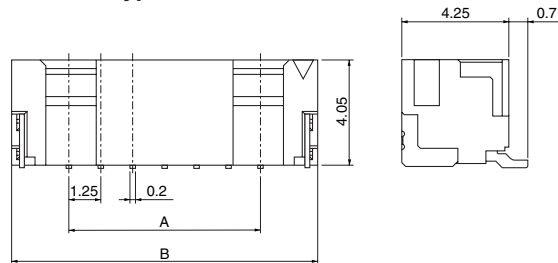
RoHS compliance

Shrouded header

Side entry type



Side feed type



Circuits	Model No.		Dimensions (mm)		Q'ty / reel
	Side feed type	Side entry type	A	B	
2	BM02B-GVHS-TB	–	1.25	5.75	2,500
3	BM03B-GVHS-TB	SM03B-GVHS-TB	2.50	7.00	2,500
4	BM04B-GVHS-TB	–	3.75	8.25	2,500
5	BM05B-GVHS-TB	–	5.00	9.50	2,500
6	BM06B-GVHS-TB	–	6.25	10.75	2,500
7	BM07B-GVHS-TB	–	7.50	12.00	2,500
8	BM08B-GVHS-TB	–	8.75	13.25	2,500
9	BM09B-GVHS-TB	–	10.00	14.50	2,500
10	BM10B-GVHS-TB	–	11.25	15.75	2,500
11	BM11B-GVHS-TB	–	12.50	17.00	2,500
12	BM12B-GVHS-TB	–	13.75	18.25	2,500
13	BM13B-GVHS-TB	–	15.00	19.50	2,500
14	BM14B-GVHS-TB	–	16.25	20.75	2,500
15	BM15B-GVHS-TB	–	17.50	22.00	2,500

Material and Finish

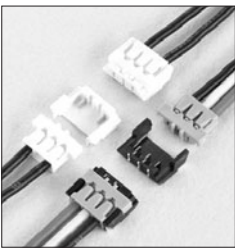
Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)

Housing: PA 6T, UL94V-0, natural

Reinforcement: Brass, copper-undercoated, tin-plated (reflow treatment)

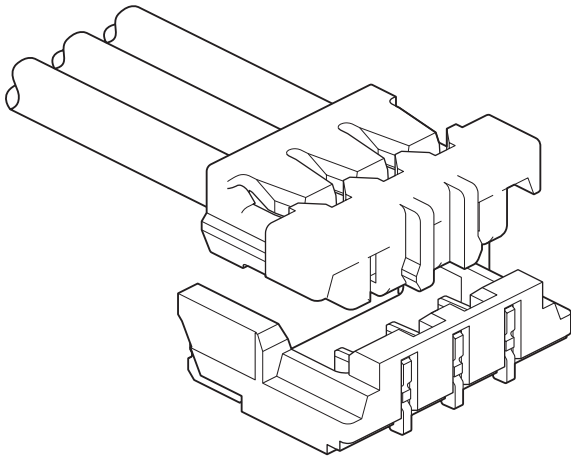
RoHS compliance This product displays (LF)(SN) on a label.

Note: Contact JST for gold-plated products.



ADH CONNECTOR

1.3mm pitch/Disconnectable Crimp style connectors



This ADH connector is compact and low profile type, height 1.9mm and width 4.3mm, 1.3mm pitch wire-to-board connector.

- Space saving
- Top entry but side feed type
- Connector for power supply (3A)

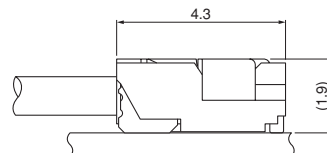
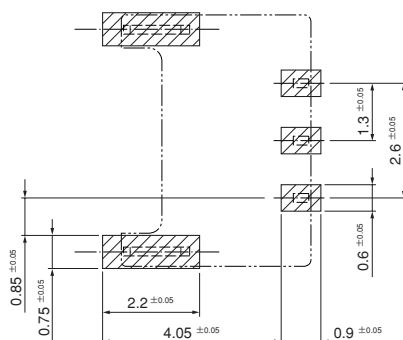
Specifications

- Current rating: 3 A AC, DC (AWG #26)
- Voltage rating: 30 V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 20 mΩ max.
After environmental tests/ 30 mΩ max.
- Insulation resistance: 100 MΩ min.
- Withstanding voltage: 500 VAC/minute
- Applicable wire: Conductor size/ AWG #28 to #26
Insulation O.D./ 0.63 mm, 0.98 mm

- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Compliant with RoHS.

Standards

Ⓜ Recognized E60389

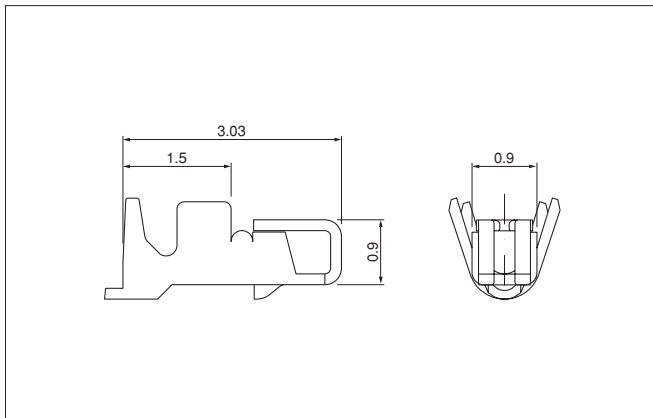


Note: 1. The above figure is the figure viewed from the connector mounting side.

2. Tolerances are non-cumulative: ±0.05mm for all centers. The dimensions above should serve as a guideline. Contact JST for details.

ADH CONNECTOR

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SADH-002G-P0.2	0.14	26	0.98	25,000
SADH-003G-P0.2	0.08	28	0.63	25,000

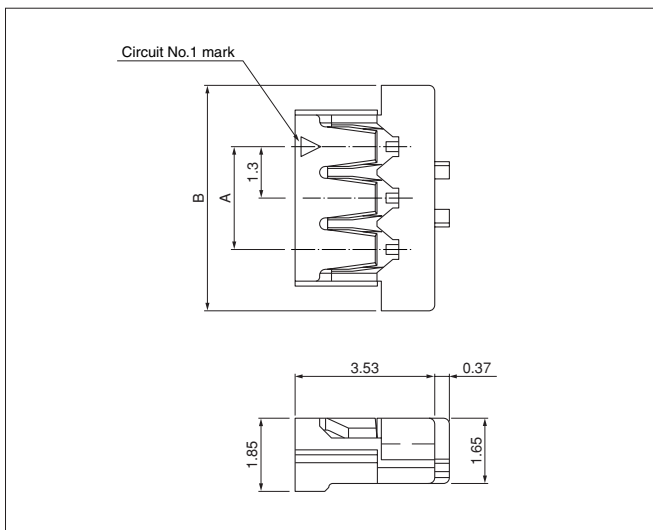
Material and Finish

Copper alloy, nickel-undercoated, gold-plated

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SADH-002G-P0.2	AP-K2N	MKS-L-10-3	MK/SADH-002-02	APLMK SADH002-02
		—	—	—
SADH-003G-P0.2		MKS-L-10-3	MK/SADH-003-02	APLMK SADH003-02
		—	—	—

Housing



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
3	ADHR-03V-H	2.6	5.7	1,000

Material

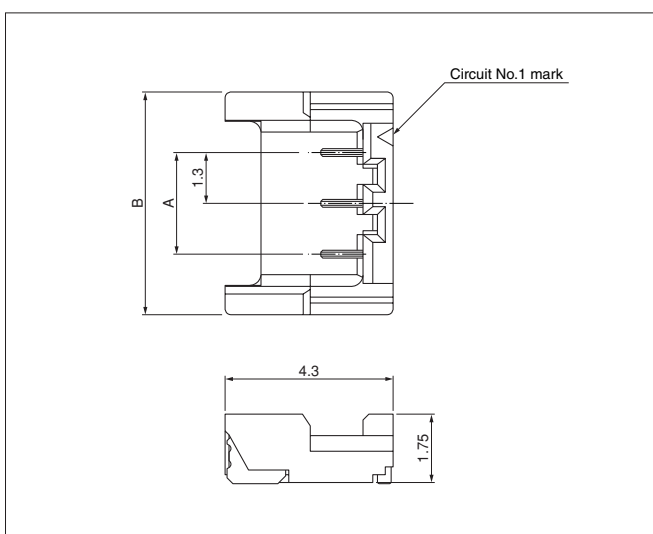
PBT, UL94V-0

RoHS compliance

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **ADHR-03V-H**
H...gray S...natural

Shrouded header



Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
*2	BM02(3)B-ADHSS-GAN-ETB	2.6	5.7	5,000
3	BM03B-ADHKS-GAN-ETB	2.6	5.7	5,000

Material and Finish

Contact: Copper alloy, copper-undercoated, tin-plated (nickel-stripe)

Housing: heat resisting resin, UL94V-0

Reinforcement: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance

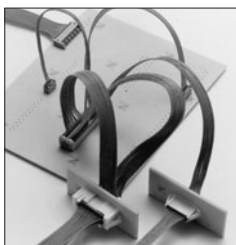
This product displays (LF)(SN) on a label.

Note: 1. The products listed above are supplied on embossed-tape.

2. *2-circuit product: Removing center pin from 3-circuit product.

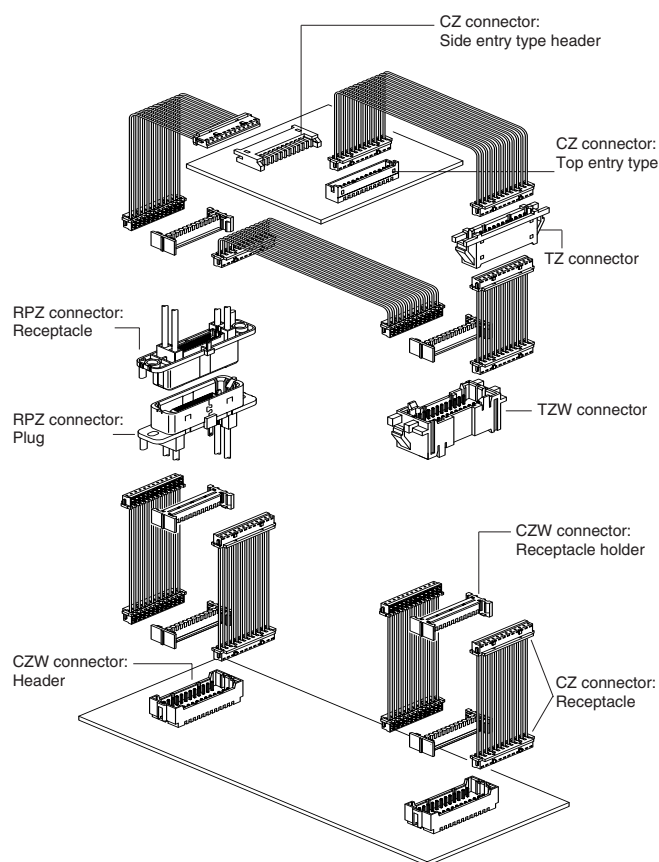
<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **BM03B-ADHKS-GAN-ETB**
K...black S...white



CZ FAMILY SERIES/CZ·CZW·CZH·CZHW·TZ·TZW

1.5mm pitch/Disconnectable Insulation displacement connectors



※ CZ connector used for the harness shown in the above-mentioned figure can be replaced to CZH connector.

Based upon the 1.5mm pitch CZ connectors, the CZ family connectors have been expanded to meet the requirements of high density packaging. The CZW connector holder allows dual-row wire-to-board connection using the CZ receptacles, while the TZ (single-row) or TZW (dual-row) allows wire-to-wire connection, also using the CZ receptacles.

CZ connector

- Distortion resistant construction
- Compact and low profile

CZW connector

- Low insertion force
- Locking construction

CZH connector

- Housing lance
- Interchangeability

TZ/TZW connector

- The TZ connector is applicable to single-row connection, while the TZW connector is for dual-row connection.
- Applicable to wide range of panel thickness
- The design of the panel lock part does not allow the wires to be caught there before mounting on the panel.

Standards

Recognized E60389

Certified LR20812

Specifications

Item	Series	CZ·CZW connector	CZH·CZHW connector	TZ·TZW connector
Current rating		2A	AC, DC (AWG #26)	
Voltage rating		100V	AC, DC	
Temperature rise		-25°C to +85°C (including temperature rise)		
Contact resistance		Initial value / 10m Ω max. After environmental testing / 20m Ω max.		Initial value / 20m Ω max. After environmental testing / 40m Ω max.
Insulation resistance		500M Ω min		
Withstanding voltage		500V AC/minute		
Applicable wire		UL10272 (Contact JST for other UL style wires.) AWG#28, #26 Conductor / 7-strands, tincoated annealed copper Insulation O.D. / 0.7 to 0.83mm	AWG#28 to #26	—
Applicable PC board thickness		1.6mm		—
Applicable panel thickness		—		0.5 to 2mm

* Compliant with RoHS.

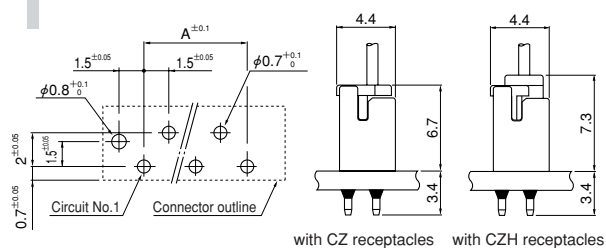
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

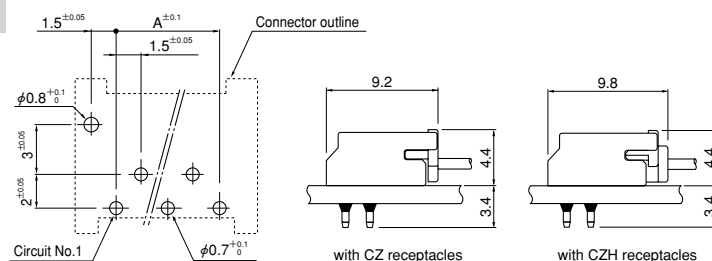
PC board layout (viewed from component side) and Assembly layout

<CZ connector through-hole type>

Top entry type



Side entry type

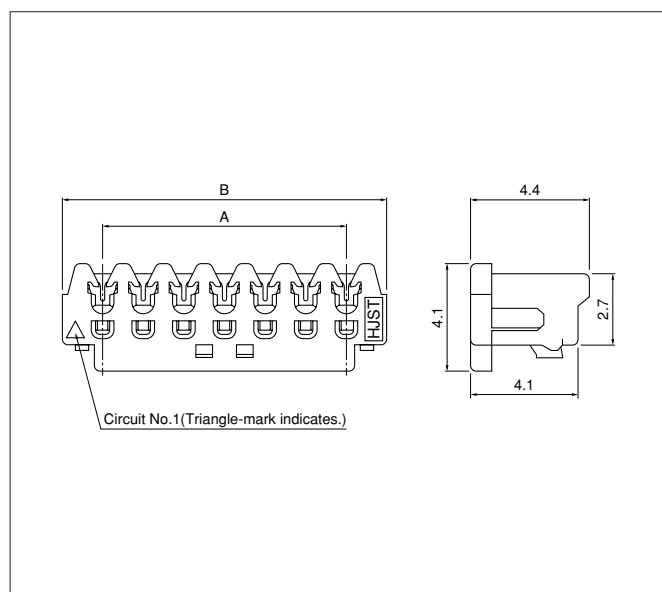


Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

CZ FAMILY SERIES / CZ · CZW · CZH · CZHW · TZ · TZW

CZ connector receptacle



Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Gray	Yellow	A	B	
2	02CZ-6H	02CZ-6Y	1.5	4.5	2,000
3	03CZ-6H	03CZ-6Y	3.0	6.0	2,000
4	04CZ-6H	04CZ-6Y	4.5	7.5	2,000
5	05CZ-6H	05CZ-6Y	6.0	9.0	2,000
6	06CZ-6H	06CZ-6Y	7.5	10.5	2,000
7	07CZ-6H	07CZ-6Y	9.0	12.0	2,000
8	08CZ-6H	08CZ-6Y	10.5	13.5	2,000
9	09CZ-6H	09CZ-6Y	12.0	15.0	1,000
10	10CZ-6H	10CZ-6Y	13.5	16.5	1,000
11	11CZ-6H	11CZ-6Y	15.0	18.0	1,000
12	12CZ-6H	12CZ-6Y	16.5	19.5	1,000
13	13CZ-6H	13CZ-6Y	18.0	21.0	1,000
14	14CZ-6H	14CZ-6Y	19.5	22.5	1,000
15	15CZ-6H	15CZ-6Y	21.0	24.0	1,000
16	16CZ-6H	16CZ-6Y	22.5	25.5	1,000
17	17CZ-6H	17CZ-6Y	24.0	27.0	1,000
18	18CZ-6H	18CZ-6Y	25.5	28.5	1,000
19	19CZ-6H	19CZ-6Y	27.0	30.0	1,000
20	20CZ-6H	20CZ-6Y	28.5	31.5	1,000

Material and Finish

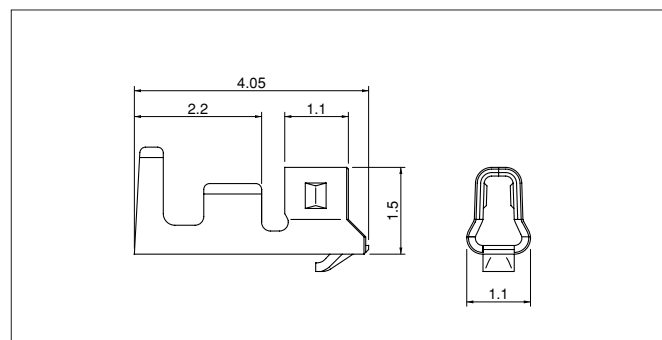
Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: Glass-filled PA 66, UL94V-0

RoHS compliance

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **02CZ-6H**
Y...yellow H...natural (grayish color)

CZH connector contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SCZH-002T-P0.5	0.08~0.13	28~26	0.8~1.1	13,000

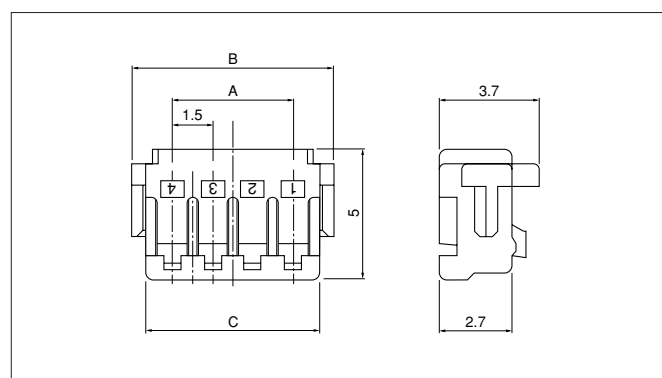
Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SCZH-002T-P0.5	AP-K2N	MKS-L	MK/SCZH-002-05	APLMK SCZH002-05
		—	—	—

CZH connector housing



RoHS compliance

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **CZHR-02V-S**
S...natural (white)
K...black H...gray Y...yellow

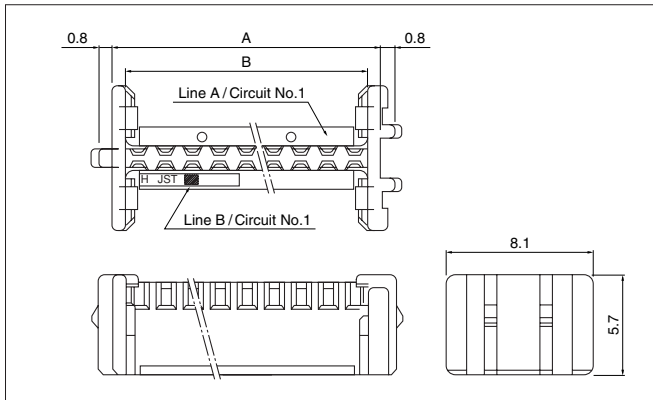
Circuits	Model No.	Dimensions (mm)			Q'ty / box
		A	B	C	
2	CZHR-02V-S	1.5	4.5	3.5	1,000
3	CZHR-03V-S	3.0	6.0	5.0	1,000
4	CZHR-04V-S	4.5	7.5	6.5	1,000
5	CZHR-05V-S	6.0	9.0	8.0	1,000
6	CZHR-06V-S	7.5	10.5	9.5	1,000
7	CZHR-07V-S	9.0	12.0	11.0	1,000
8	CZHR-08V-S	10.5	13.5	12.5	1,000
9	CZHR-09V-S	12.0	15.0	14.0	1,000
10	CZHR-10V-S	13.5	16.5	15.5	1,000
11	CZHR-11V-S	15.0	18.0	17.0	1,000
12	CZHR-12V-S	16.5	19.5	18.5	1,000
13	CZHR-13V-S	18.0	21.0	20.0	1,000
14	CZHR-14V-S	19.5	22.5	21.5	1,000
15	CZHR-15V-S	21.0	24.0	23.0	1,000
16	CZHR-16V-S	22.5	25.5	24.5	1,000
17	CZHR-17V-S	24.0	27.0	26.0	1,000
19	CZHR-19V-S	27.0	30.0	29.0	1,000
20	CZHR-20V-S	28.5	31.5	30.5	1,000

Material

PBT, UL94V-0, natural (white)

CZ FAMILY SERIES / CZ · CZW · CZH · CZHW · TZ · TZW

CZW connector holder



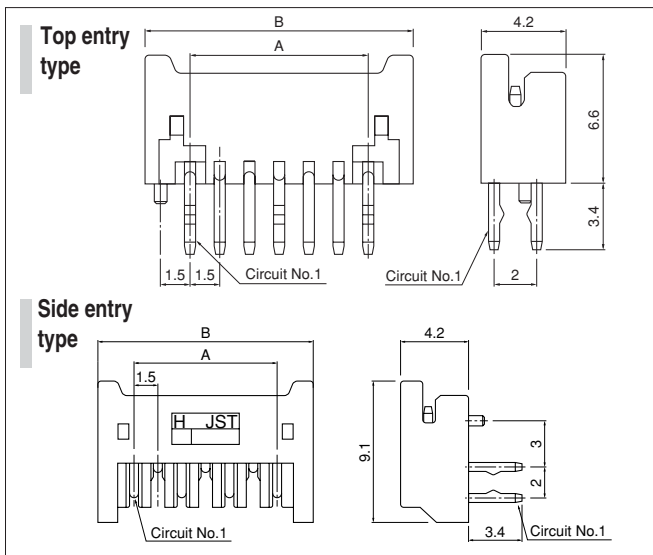
Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
16	CZWH-16-S	14.9	13.5	1,000
18	CZWH-18-S	16.4	15.0	1,000
20	CZWH-20-S	17.9	16.5	1,000
22	CZWH-22-S	19.4	18.0	1,000
24	CZWH-24-S	20.9	19.5	1,000
26	CZWH-26-S	22.4	21.0	1,000
28	CZWH-28-S	23.9	22.5	1,000
30	CZWH-30-S	25.4	24.0	1,000
32	CZWH-32-S	26.9	25.5	1,000
34	CZWH-34-S	28.4	27.0	1,000
36	CZWH-36-S	29.9	28.5	1,000
38	CZWH-38-S	31.4	30.0	1,000
40	CZWH-40-S	32.9	31.5	1,000

Material

PBT, UL94V-0, natural (white)

RoHS compliance

CZ connector through-hole type shrouded header



<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **B02B-CZHK-B-1** H...natural (grayish color) Y...yellow K...black

Circuits	Model No.		Dimensions (mm)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
2	B02B-CZHK-B-1	S02B-CZHK-B-1	1.5	6.0	2,072	1,480
3	B03B-CZHK-B-1	S03B-CZHK-B-1	3.0	7.5	1,624	1,160
4	B04B-CZHK-B-1	S04B-CZHK-B-1	4.5	9.0	1,344	960
5	B05B-CZHK-B-1	S05B-CZHK-B-1	6.0	10.5	1,176	840
6	B06B-CZHK-B-1	S06B-CZHK-B-1	7.5	12.0	1,008	720
7	B07B-CZHK-B-1	S07B-CZHK-B-1	9.0	13.5	896	640
8	B08B-CZHK-B-1	S08B-CZHK-B-1	10.5	15.0	784	560
9	B09B-CZHK-B-1	S09B-CZHK-B-1	12.0	16.5	728	520
10	B10B-CZHK-B-1	S10B-CZHK-B-1	13.5	18.0	672	480
11	B11B-CZHK-B-1	S11B-CZHK-B-1	15.0	19.5	616	440
12	B12B-CZHK-B-1	S12B-CZHK-B-1	16.5	21.0	560	400
13	B13B-CZHK-B-1	S13B-CZHK-B-1	18.0	22.5	504	360
14	B14B-CZHK-B-1	S14B-CZHK-B-1	19.5	24.0	504	360
15	B15B-CZHK-B-1	S15B-CZHK-B-1	21.0	25.5	448	320
16	B16B-CZHK-B-1	S16B-CZHK-B-1	22.5	27.0	448	320
17	B17B-CZHK-B-1	S17B-CZHK-B-1	24.0	28.5	392	280
18	B18B-CZHK-B-1	S18B-CZHK-B-1	25.5	30.0	392	280
19	B19B-CZHK-B-1	S19B-CZHK-B-1	27.0	31.5	392	280
20	B20B-CZHK-B-1	S20B-CZHK-B-1	28.5	33.0	336	240

Material and Finish

Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

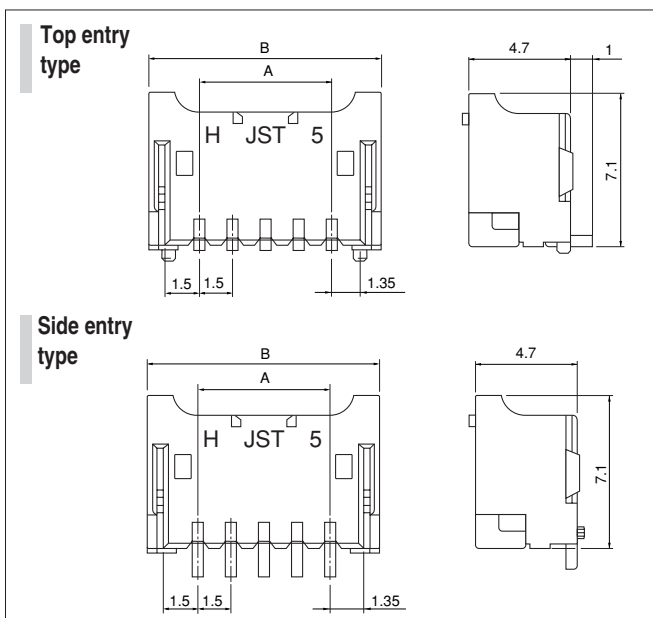
Wafer: Glass-filled PA 66, UL94V-0, natural (grayish color)

Note: Models B()B-CZHK-B are the headers without the boss.

Note: Models S()B-CZHK-B are the headers without the boss.

RoHS compliance This product displays (LF)(SN) on a label.

CZ connector SMT type shrouded header



Circuits	Model No.		Dimensions (mm)		Q'ty / reel	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
2	BM02B-CZSS-1-TF	SM02B-CZSS-1-TB	1.5	6.0	800	1,250
4	BM04B-CZSS-1-TF	SM04B-CZSS-1-TB	4.5	9.0	800	1,250
5	BM05B-CZSS-1-TF	SM05B-CZSS-1-TB	6.0	10.5	800	1,250
6	BM06B-CZSS-1-TF	—	7.5	12.0	800	—
8	BM08B-CZSS-1-TF	—	10.5	15.0	800	—
10	BM10B-CZSS-1-TF	SM10B-CZSS-1-TB	13.5	18.0	800	1,250
13	BM13B-CZSS-1-TF	SM13B-CZSS-1-TB	18.0	22.5	800	1,250
14	BM14B-CZSS-1-TF	—	19.5	24.0	800	—
15	BM15B-CZSS-1-TF	—	21.0	25.5	800	—
16	BM16B-CZSS-1-TF	SM16B-CZSS-1-TB	22.5	27.0	800	1,250
17	BM17B-CZSS-1-TF	—	24.0	28.5	800	—
20	BM20B-CZSS-1-TF	—	28.5	33.0	800	—

Material and Finish

Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Wafer: PA, UL94V-0, natural (ivory)

Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Note: Models BM()B-CZSS-TF are the headers without the boss.

Note: Models SM()B-CZSS-TB are the headers without the boss.

RoHS compliance This product displays (LF)(SN) on a label.

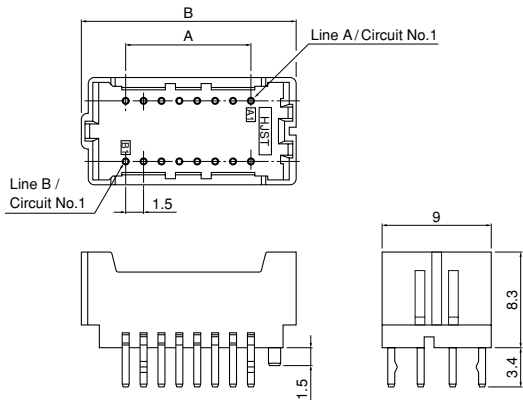
<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **B02B-CZSS-1-TF** S...natural (ivory) H...gray

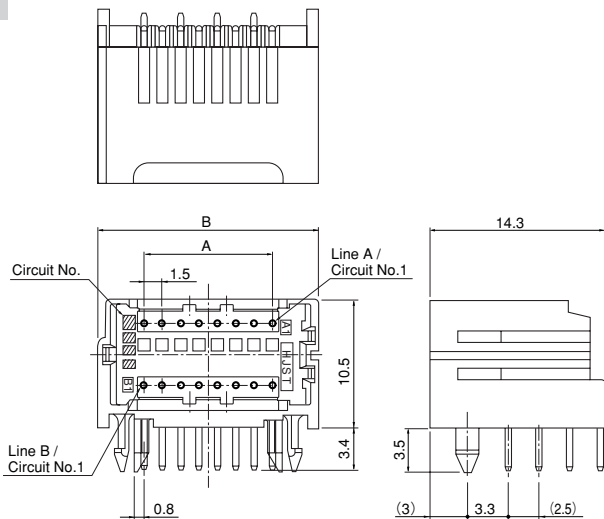
CZ FAMILY SERIES / CZ・CZW・CZH・CZHW・TZ・TZW

CZW connector through-hole type shrouded header

Top entry type



Side entry type



Circuits	Model No.		Dimensions (mm)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
16	B16B-CZWHK-B-1	—	10.5	18.0	420	—
18	B18B-CZWHK-B-1	—	12.0	19.5	385	—
20	B20B-CZWHK-B-1	S20B-CZWHS-B-1	13.5	21.0	350	280
22	B22B-CZWHK-B-1	—	15.0	22.5	315	—
24	B24B-CZWHK-B-1	—	16.5	24.0	315	—
26	B26B-CZWHK-B-1	S26B-CZWHS-B-1	18.0	25.5	280	224
28	B28B-CZWHK-B-1	—	19.5	27.0	280	—
30	B30B-CZWHK-B-1	—	21.0	28.5	245	—
32	B32B-CZWHK-B-1	—	22.5	30.0	245	—
34	B34B-CZWHK-B-1	—	24.0	31.5	245	—
36	B36B-CZWHK-B-1	—	25.5	33.0	210	—
38	B38B-CZWHK-B-1	—	27.0	34.5	210	—
40	B40B-CZWHK-B-1	S40B-CZWHS-B-1	28.5	36.0	210	168

Material and Finish

Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PA 66, UL94V-0, natural (grayish color)
Note: Models B()B-CZW~~H~~K-B are the headers without the boss.

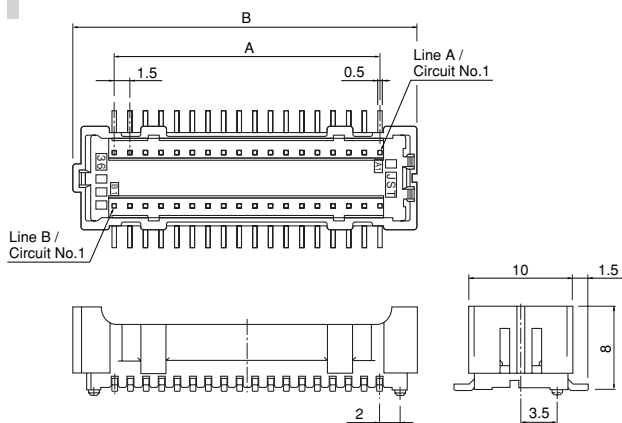
RoHS compliance This product displays (LF)(SN) on a label.

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **B16B-CZW~~H~~K-B-1**
H...natural (grayish color)
Y...yellow

CZW connector SMT type shrouded header

Top entry type



Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
36	BM36B-CZWSSS-1-TF	25.5	33.0	300
40	BM40B-CZWSSS-1-TF	28.5	36.0	300

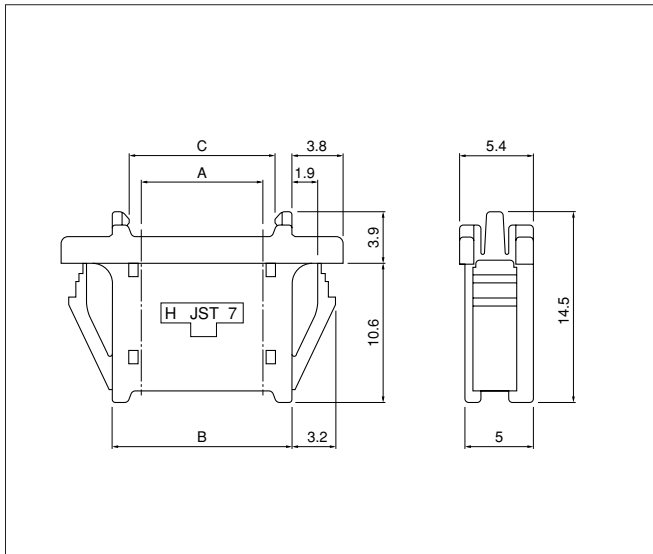
Material and Finish

Press pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA, UL94V-0, natural (ivory)
Note: Models BM()B-CZW~~S~~SS-TF are the headers without the boss.

RoHS compliance This product displays (LF)(SN) on a label.

CZ FAMILY SERIES / CZ • CZW • CZH • CZHW • TZ • TZW

TZ connector (Unit for wire-to-wire connection)



Circuits	Model No.	Dimensions (mm)					Qty / box
		A	B	C	D	E	
2	BU02P-TZ-S	1.5	5.9	3.5	6.3	9.9	500
3	BU03P-TZ-S	3.0	7.4	5.0	7.8	11.4	500
4	BU04P-TZ-S	4.5	8.9	6.5	9.3	12.9	500
5	BU05P-TZ-S	6.0	10.4	8.0	10.8	14.4	500
6	BU06P-TZ-S	7.5	11.9	9.5	12.3	15.9	250
7	BU07P-TZ-S	9.0	13.4	11.0	13.8	17.4	250
8	BU08P-TZ-S	10.5	14.9	12.5	15.3	18.9	250
9	BU09P-TZ-S	12.0	16.4	14.0	16.8	20.4	250
10	BU10P-TZ-S	13.5	17.9	15.5	18.3	21.9	250
11	BU11P-TZ-S	15.0	19.4	17.0	19.8	23.4	250
12	BU12P-TZ-S	16.5	20.9	18.5	21.3	24.9	250
13	BU13P-TZ-S	18.0	22.4	20.0	22.8	26.4	250
14	BU14P-TZ-S	19.5	23.9	21.5	24.3	27.9	250
15	BU15P-TZ-S	21.0	25.4	23.0	25.8	29.4	250
16	BU16P-TZ-S	22.5	26.9	24.5	27.3	30.9	250
17	BU17P-TZ-S	24.0	28.4	26.0	28.8	32.4	250
18	BU18P-TZ-S	25.5	29.9	27.5	30.3	33.9	150
19	BU19P-TZ-S	27.0	31.4	29.0	31.8	35.4	150
20	BU20P-TZ-S	28.5	32.9	30.5	33.3	36.9	100

Material and Finish

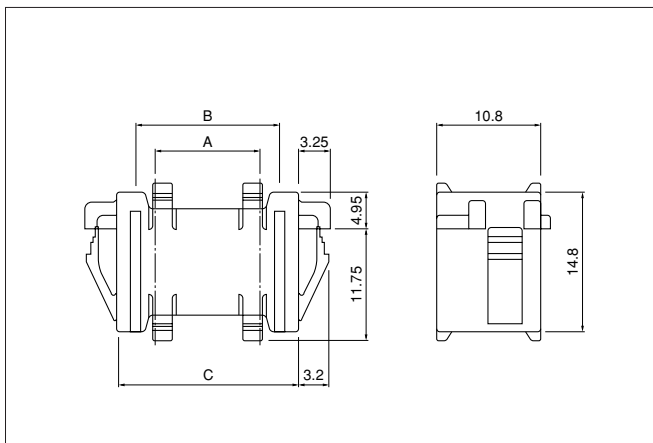
Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Housing: PA 66, UL94V-0, natural (white)

RoHS compliance This product displays (LF)(SN) on a label.

Note: D and E dimensions; Refer to the panel layout of TZ connector (P2).

TZW connector (Dual-row unit for wire-to-wire connection)



Circuits	Model No.	Dimensions (mm)					Qty / box
		A	B	C	D	E	
16	BU16P-TZW-S	10.5	15.0	19.0	19.4	23.0	160
18	BU18P-TZW-S	12.0	16.5	20.5	20.9	24.5	140
20	BU20P-TZW-S	13.5	18.0	22.0	22.4	26.0	140
22	BU22P-TZW-S	15.0	19.5	23.5	23.9	27.5	140
24	BU24P-TZW-S	16.5	21.0	25.0	25.4	29.0	120
26	BU26P-TZW-S	18.0	22.5	26.5	26.9	30.5	120
28	BU28P-TZW-S	19.5	24.0	28.0	28.4	32.0	120
30	BU30P-TZW-S	21.0	25.5	29.5	29.9	33.5	100
32	BU32P-TZW-S	22.5	27.0	31.0	31.4	35.0	100
34	BU34P-TZW-S	24.0	28.5	32.5	32.9	36.5	100
36	BU36P-TZW-S	25.5	30.0	34.0	34.4	38.0	100
38	BU38P-TZW-S	27.0	31.5	35.5	35.9	39.5	100
40	BU40P-TZW-S	28.5	33.0	37.0	37.4	41.0	80

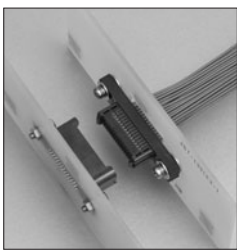
Material and Finish

Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Housing: PA 66, UL94V-0, natural (white)

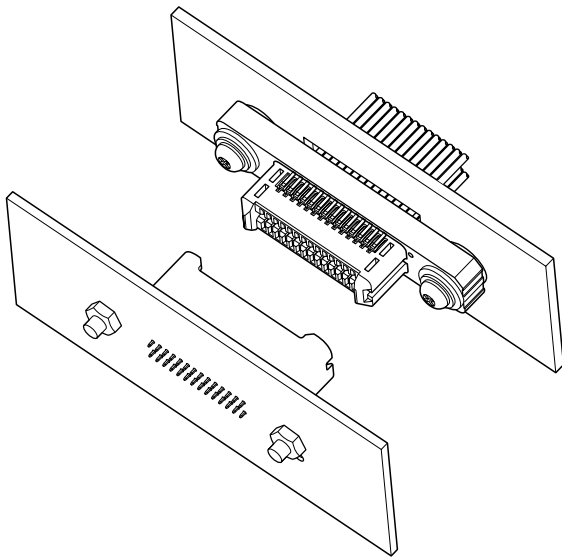
RoHS compliance This product displays (LF)(SN) on a label.

Note: D and E dimensions; Refer to the panel layout of TZW connector (P2).



RTZ CONNECTOR

1.5mm pitch/Disconnectable Crimp style connectors



The RTZ connector is a drawer connector with floating mechanism which makes design of equipment easy. Correspond to the miniaturization of equipment by realizing the downsizing and the space saving with 1.5mm pitch and the distance of 19.9mm at the minimum between board and panel.

- **Floating mechanism**
(Rate of movement: $\pm 1.1\text{mm}$)
- **Space saving design**
- **High reliability contact**
- **Secure the versatility and reliability of the installation by the application of the standard M3 screw.**

Specifications

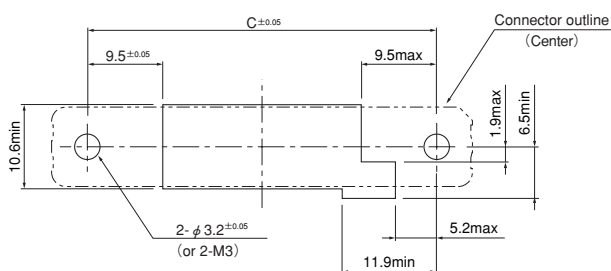
- Current rating: 2 A AC, DC (AWG #24)
- Voltage rating: 50 V AC, DC
- Temperature range: -25°C to $+85^{\circ}\text{C}$
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 30 m Ω max.
After environmental tests/ 50 m Ω max.
- Insulation resistance: 1,000 M Ω min.
- Withstanding voltage: 500 VAC/minute
- Applicable wire: Conductor size/ AWG #28 to #24
Insulation O.D./ 0.8 to 1.2 mm
- Applicable PC board thickness: 1.6 mm

* Compliant with RoHS.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

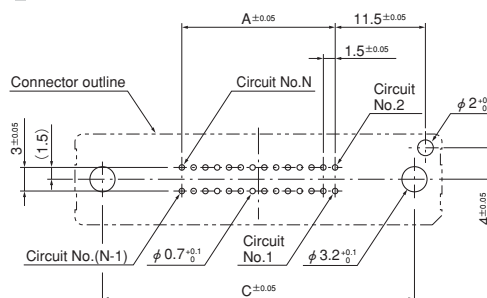
* Contact JST for details.

Panel layout for receptacle



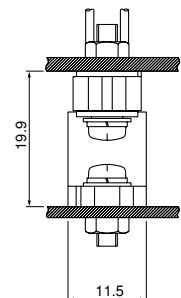
- Note: 1. The above figure is the figure viewed from the connector mounting side.
2. Punch holes in the panel according to the figures shown above. Burrs must be removed.
3. The strength of the panel must be considered when punching two or more holes.

PC board layout for plug / in-line type



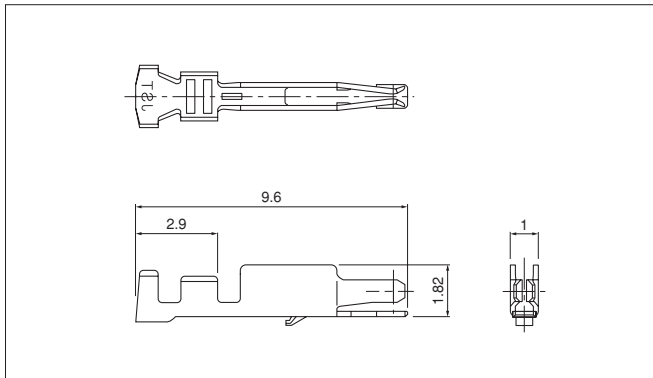
- Note: 1. The above figure is the figure viewed from the connector mounting side.
2. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
3. Hole dimensions differ according to the type of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.
4. Contact JST as for the product with the staggered type arrangement of lead (4 rows).

Assembly layout



RTZ CONNECTOR

Receptacle contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SRTZ-002GSA-P0.3	0.08~0.21	28~24	0.8~1.2	15,000

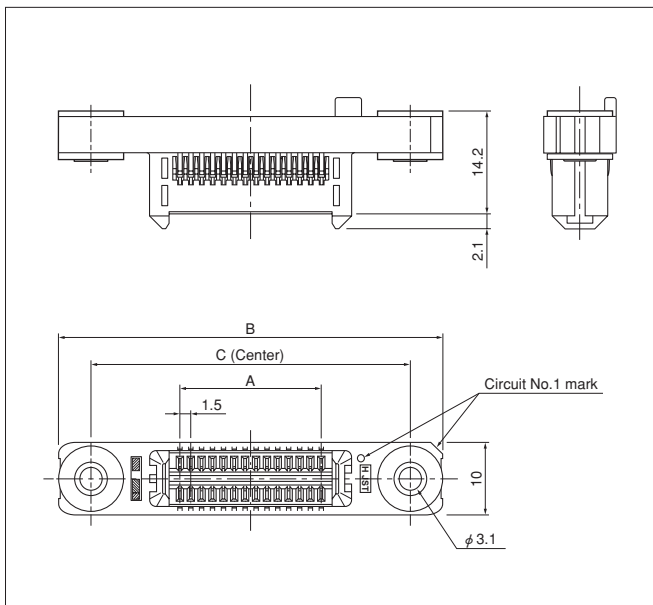
Material and Finish

Copper alloy, nickel-undercoated, Mating part; gold-plated
Crimping part; tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SRTZ-002GSA-P0.3	AP-K2N	MKS-L	MK/SRTZ-002-03	APLMK/SRTZ002-03

Receptacle



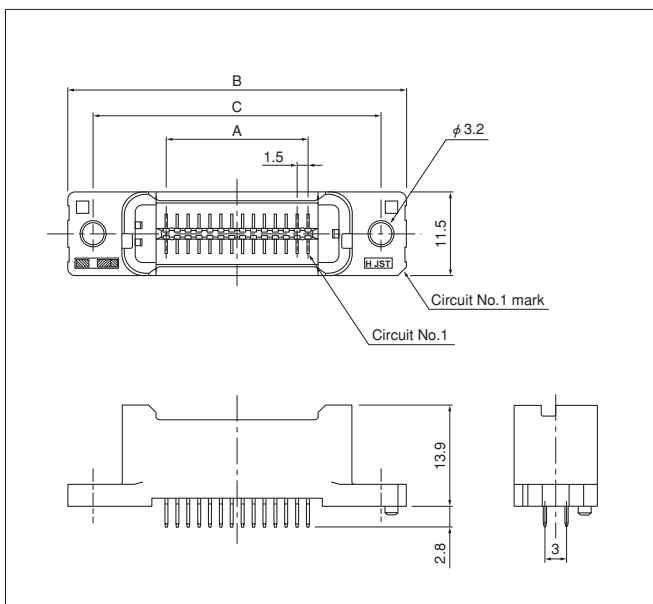
Circuits	Model No.	Dimensions (mm)			Q'ty / box
		A	B	C	
4	RTZR-04V-K-FB	—	35.0	26.0	1,512
16	RTZR-16V-K-FB	10.5	44.0	35.0	1,296
20	RTZR-20V-K-FB	13.5	47.0	38.0	1,080
22	RTZR-22V-K-FB	15.0	48.5	39.5	1,080
28	RTZR-28V-K-FB	19.5	53.0	44.0	1,080

Material and Finish

Washer, Floating rivet: Copper alloy, nickel-plated
Housing: Glass-filled PBT, UL94V-0, black

RoHS compliance

Plug

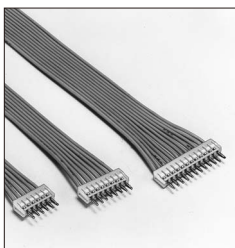


Circuits	Model No.	Dimensions (mm)			Q'ty / box
		A	B	C	
4	RTZP-04V-K1GSA	—	28.7	21.7	2,016
16	RTZP-16V-K1GSA	10.5	37.7	30.7	1,568
20	RTZP-20V-K1GSA	13.5	40.7	33.7	1,344
22	RTZP-22V-K1GSA	15.0	42.2	35.2	1,344
28	RTZP-28V-K1GSA	19.5	46.7	39.7	1,344

Material and Finish

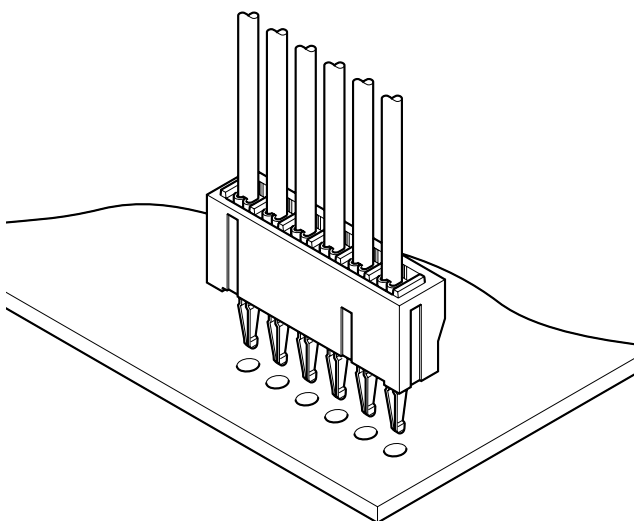
Contact: Copper alloy, nickel-undercoated, Mating part; gold-plated
Solder tail; tin-plated (reflow treatment)
Housing: Glass-filled PBT, UL94V-0, black

RoHS compliance



SZN CONNECTOR

1.5mm pitch/Board-in crimp style connectors



This low-profile, board-in connector, with a mounting height of only 4.25mm and a thickness of 2.4mm, is soldered directly onto printed circuit boards. The solder tail of the contact is resilient for easy assembly. The housing lances facilitate insertion of contacts.

- Slim, low-profile design
- Housing lances
- Easy mounting onto printed circuit boards
- Rugged contact construction

Specifications

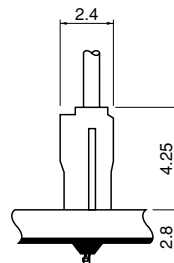
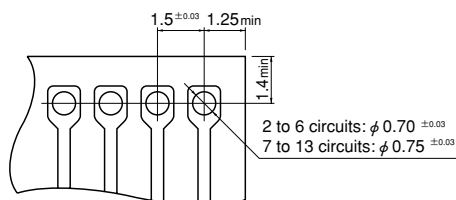
- Current rating: 0.7A AC, DC (AWG #26)
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable wire: AWG #30 to #26
- Applicable PC board thickness: 0.6 to 1.2mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

Ⓜ Recognized E60389

Ⓢ Certified LR20812

PC board layout (viewed from soldering side) and Assembly layout

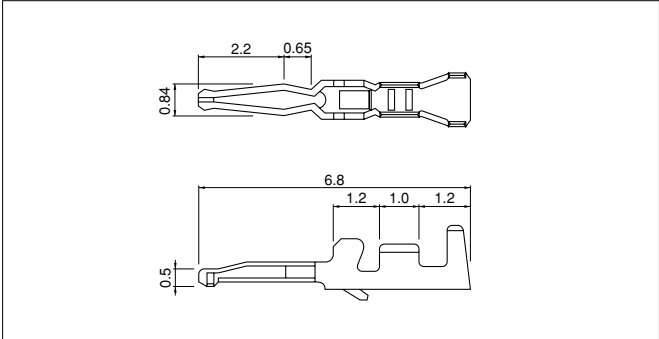


Note: 1. Tolerances are non-cumulative: ± 0.03 mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

SZN CONNECTOR

Contact



Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SZN-002T-P0.7K	AP-K2N	MKS-L	MK/SZN-002-07	APLMK SZN002-07
		—	—	—

Note: *Strip-crimp applicator

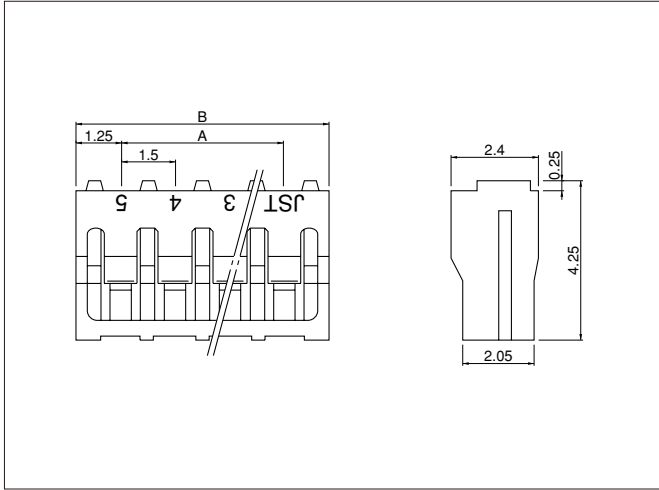
Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty/reel
	mm²	AWG#		
SZN-002T-P0.7K	0.08~0.13	28~26	0.8~1.1	14,000
SZN-003T-P0.7K	0.05~0.08	30~28	0.7~0.9	15,000

Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance
Note: Contact JST for brass products.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SZN-003T-P0.7K	AP-K2N	MKS-L	MK/SZN-003-07	APLMK SZN003-07
		*MKS-SC	SC/SZN-003-07	APLSC SZN003-07

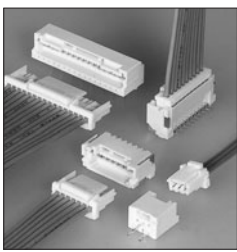
Housing



Circuits	Model No.	Dimensions (mm)		Q'ty/bag
		A	B	
2	2P-SZN	1.5	4.0	1,000
3	3P-SZN	3.0	5.5	1,000
4	4P-SZN	4.5	7.0	1,000
5	5P-SZN	6.0	8.5	1,000
6	6P-SZN	7.5	10.0	1,000
7	7P-SZN	9.0	11.5	1,000
8	8P-SZN	10.5	13.0	1,000
9	9P-SZN	12.0	14.5	1,000
10	10P-SZN	13.5	16.0	1,000
11	11P-SZN	15.0	17.5	1,000
12	12P-SZN	16.5	19.0	1,000
13	13P-SZN	18.0	20.5	1,000

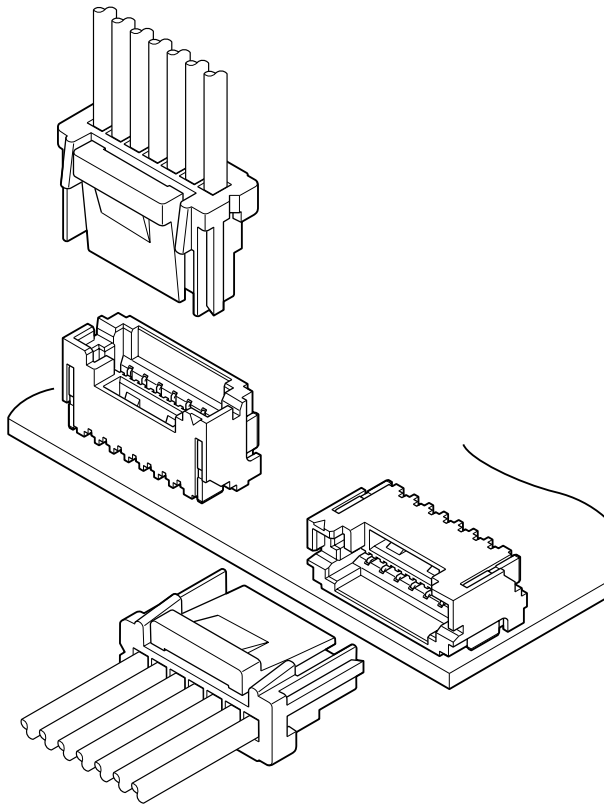
Material
PA 66, UL94V-0, natural (white)

RoHS compliance



ZE CONNECTOR

1.5mm pitch/Disconnectable Crimp style connectors



1.5mm pitch secure lock type connector.
Fork-shaped header contact provides the good mating feeling and secure mating operation.

- Secure locking structure
- Contact locking structure

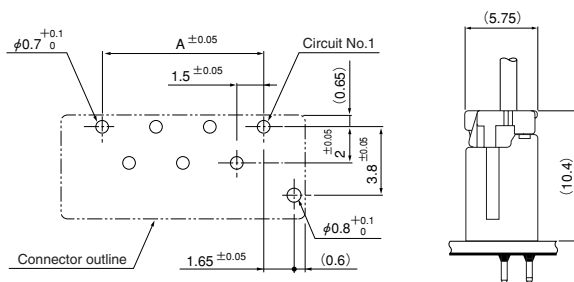
Specifications

- Current rating: 2 A AC, DC (AWG #24)
 - Voltage rating: 100 V AC, DC
 - Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
 - Contact resistance: Initial value/ 20 mΩ max.
After environmental tests/ 40 mΩ max.
 - Insulation resistance: 500 MΩ min.
 - Withstanding voltage: 500 VAC/minute
 - Applicable wire: Conductor size/ AWG #30 to #24
Insulation O.D./ 0.8 to 1.2 mm
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Compliant with RoHS.

Standards

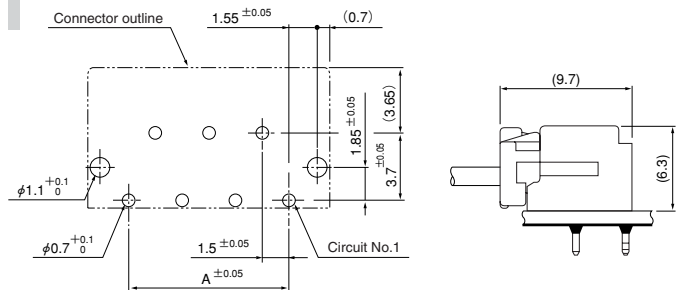
Recognized E60389

Top entry type



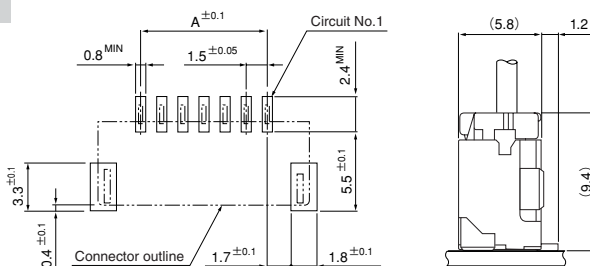
Note: 1. The above figure is the figure viewed from the connector mounting side (see 2. Tolerances are non-cumulative: ±0.05mm for all centers.
3. Hole dimensions differ according to the type of PC board and piercing method.
The dimensions above should serve as a guideline. Contact JST for details.

Side entry type



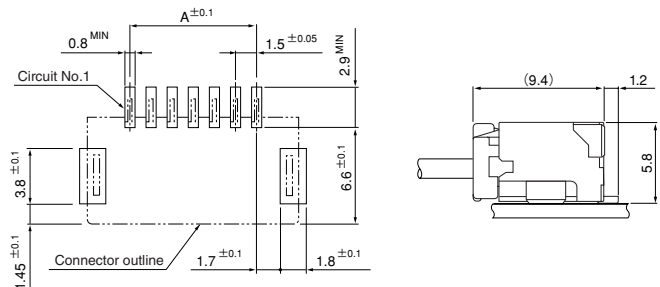
<SMT type>

Top entry type

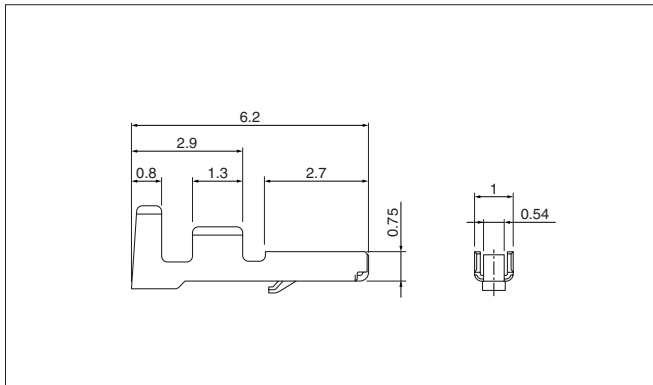


Note: 1. The above figure is the figure viewed from the connector mounting side.
2. Tolerances are non-cumulative: ±0.1mm for all centers.
The dimensions above should serve as a guideline. Contact JST for details.

Side entry type



Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SZE-002T-P0.3	0.08~0.21	28~24	0.8~1.2	16,000
SZE-003T-P0.3	0.05~0.13	30~26	0.8~1.0	16,000

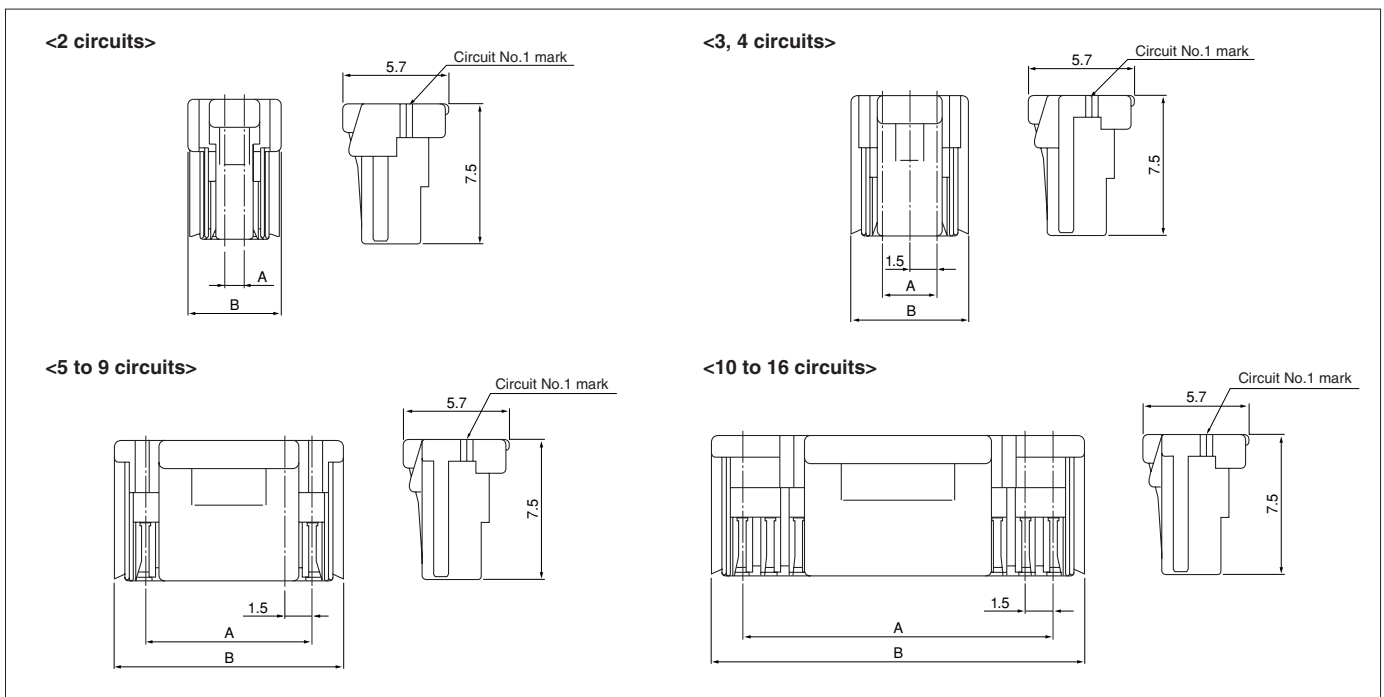
Material and Finish

Copper alloy, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SZE-002T-P0.3	AP-K2N	MKS-L	MK/SZE-002-03	APLMK SZE002-03
		—	—	—
SZE-003T-P0.3	AP-K2N	MKS-L	MK/SZE-003-03	APLMK SZE003-03
		—	—	—

Housing



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	ZER-02V-S	1.5	5.0	6,000
3	ZER-03V-S	3.0	6.3	6,000
4	ZER-04V-S	4.5	7.8	5,000
5	ZER-05V-S	6.0	9.3	3,000
6	ZER-06V-S	7.5	10.8	3,000
7	ZER-07V-S	9.0	12.3	2,000
8	ZER-08V-S	10.5	13.8	2,000
9	ZER-09V-S	12.0	15.3	2,000
10	ZER-10V-S	13.5	16.8	2,000
11	ZER-11V-S	15.0	18.3	2,000
12	ZER-12V-S	16.5	19.8	2,000
13	ZER-13V-S	18.0	21.3	2,000
14	ZER-14V-S	19.5	22.8	2,000
15	ZER-15V-S	21.0	24.3	1,500
16	ZER-16V-S	22.5	25.8	1,500

Material

PBT, UL94V-0, natural

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **ZER-02V-S**

S...natural Z...ivory E...blue TR...tomato red MG...moss green
DH...dark gray DPK...dark pink L...lemon yellow LE...light blue
DO...dark orange DP...dark purple K...black R...red M...green
Y...yellow N...brown P...purple FY...vivid yellow PK...pink
O...orange

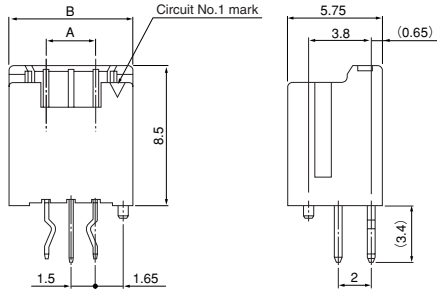
RoHS compliance

ZE CONNECTOR

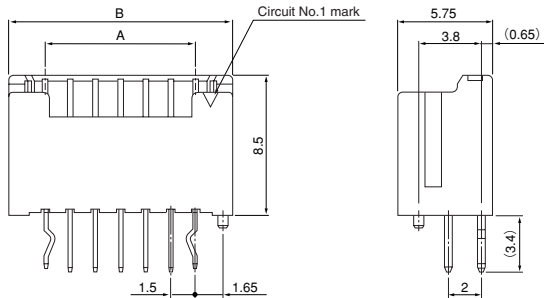
Through-hole type shrouded header

Top entry type

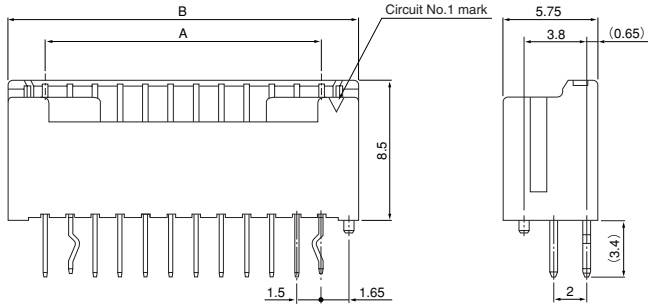
<2 to 5 circuits>



<6 to 9 circuits>

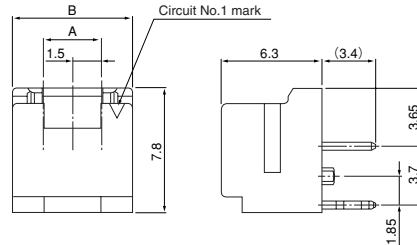


<10 to 16 circuits>

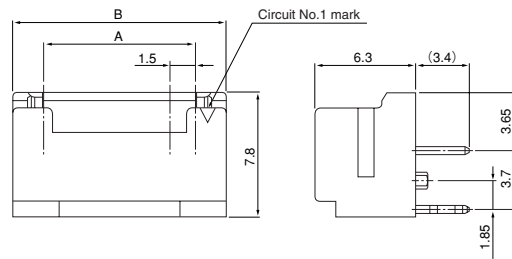


Side entry type

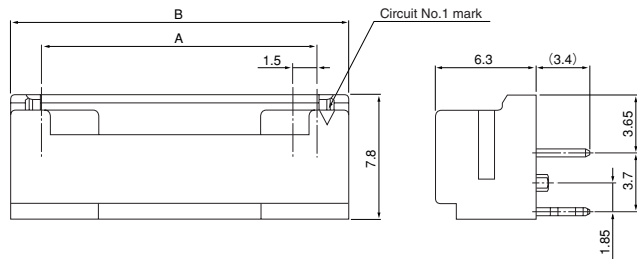
<2 to 5 circuits>



<6 to 9 circuits>



<10 to 16 circuits>



Top entry type

Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Without boss	With boss	A	B	
2	—	B02B-ZESK-1D	1.5	6.0	2,496
3	B03B-ZESK-D	B03B-ZESK-1D	3.0	7.5	1,984
4	B04B-ZESK-D	B04B-ZESK-1D	4.5	9.0	1,664
5	B05B-ZESK-D	B05B-ZESK-1D	6.0	10.5	1,408
6	B06B-ZESK-D	B06B-ZESK-1D	7.5	12.0	1,216
7	B07B-ZESK-D	B07B-ZESK-1D	9.0	13.5	1,088
8	B08B-ZESK-D	B08B-ZESK-1D	10.5	15.0	960
9	B09B-ZESK-D	B09B-ZESK-1D	12.0	16.5	896
10	B10B-ZESK-D	B10B-ZESK-1D	13.5	18.0	832
11	B11B-ZESK-D	B11B-ZESK-1D	15.0	19.5	768
12	B12B-ZESK-D	B12B-ZESK-1D	16.5	21.0	704
13	B13B-ZESK-D	B13B-ZESK-1D	18.0	22.5	640
14	B14B-ZESK-D	B14B-ZESK-1D	19.5	24.0	576
15	B15B-ZESK-D	B15B-ZESK-1D	21.0	25.5	576
16	B16B-ZESK-D	B16B-ZESK-1D	22.5	27.0	512

Material and Finish

Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PA 66, UL94V-0, natural

RoHS compliance This product displays (LF)(SN) on a label.

Note: Top entry type 2 circuits is only header with boss.

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **B02B-ZESK-1D, S02B-ZESK-2D** S...natural Z...ivory E...blue TR...tomato red MG...moss green DH...dark gray DPK...dark pink

L...lemon yellow LE...light blue DO...dark orange K...black R...red M...green Y...yellow N...brown P...purple FY...vivid yellow PK...pink O...orange

Side entry type

Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	S02B-ZESK-2D	1.5	6.0	1,872
3	S03B-ZESK-2D	3.0	7.5	1,488
4	S04B-ZESK-2D	4.5	9.0	1,248
5	S05B-ZESK-2D	6.0	10.5	1,056
6	S06B-ZESK-2D	7.5	12.0	912
7	S07B-ZESK-2D	9.0	13.5	816
8	S08B-ZESK-2D	10.5	15.0	720
9	S09B-ZESK-2D	12.0	16.5	672
10	S10B-ZESK-2D	13.5	18.0	624
11	S11B-ZESK-2D	15.0	19.5	576
12	S12B-ZESK-2D	16.5	21.0	528
13	S13B-ZESK-2D	18.0	22.5	480
14	S14B-ZESK-2D	19.5	24.0	432
15	S15B-ZESK-2D	21.0	25.5	432
16	S16B-ZESK-2D	22.5	27.0	384

Material and Finish

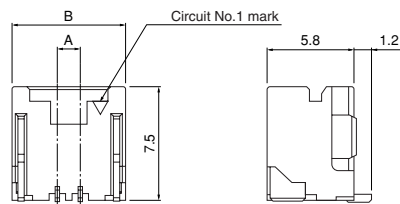
Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PA 66, UL94V-0, natural

RoHS compliance This product displays (LF)(SN) on a label.

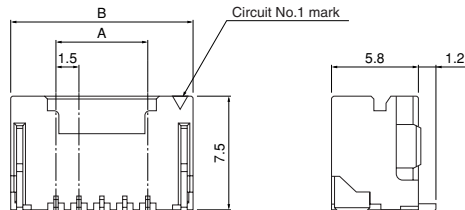
SMT type shrouded header

Top entry type

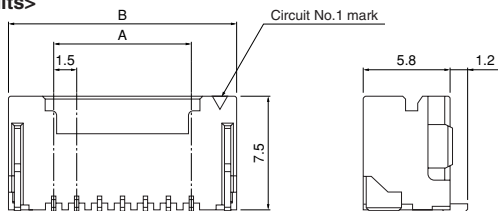
<2 circuits>



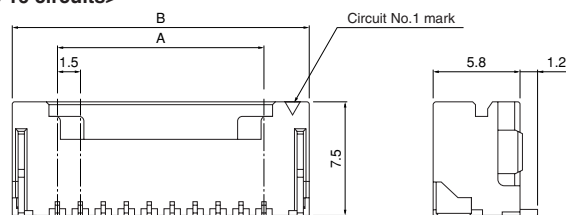
<3 to 5 circuits>



<6 to 9 circuits>

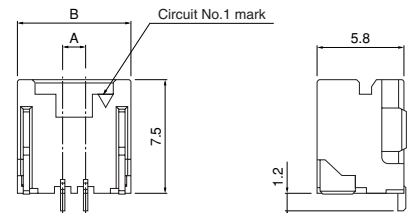


<10 to 16 circuits>

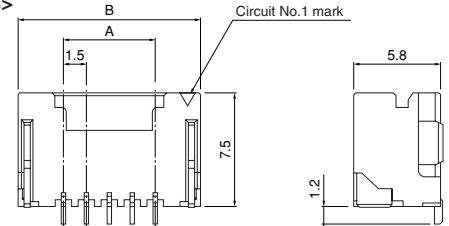


Side entry type

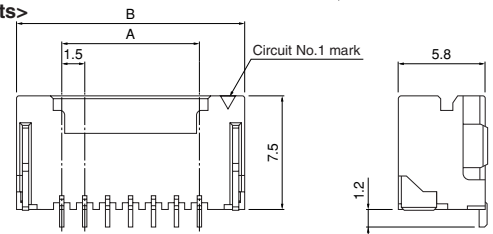
<2 circuits>



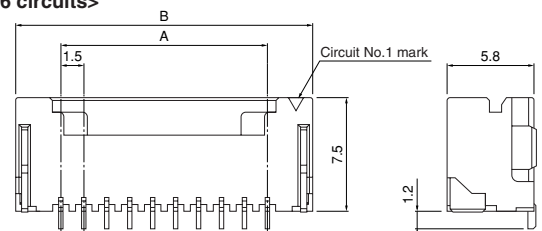
<3 to 5 circuits>



<6 to 9 circuits>



<10 to 16 circuits>



Top entry type

Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
2	BM02B-ZESS-TBT	1.5	7.5	800
3	BM03B-ZESS-TBT	3.0	9.0	800
4	BM04B-ZESS-TBT	4.5	10.5	800
5	BM05B-ZESS-TBT	6.0	12.0	800
6	BM06B-ZESS-TBT	7.5	13.5	800
7	BM07B-ZESS-TBT	9.0	15.0	800
8	BM08B-ZESS-TBT	10.5	16.5	800
9	BM09B-ZESS-TBT	12.0	18.0	800
10	BM10B-ZESS-TBT	13.5	19.5	800
11	BM11B-ZESS-TBT	15.0	21.0	800
12	BM12B-ZESS-TBT	16.5	22.5	800
13	BM13B-ZESS-TBT	18.0	24.0	800
14	BM14B-ZESS-TBT	19.5	25.5	800
15	BM15B-ZESS-TBT	21.0	27.0	800
16	BM16B-ZESS-TBT	22.5	28.5	800

Material and Finish

Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Polyamide, UL94V-0, natural
Reinforcement: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.
Note: The products listed above are supplied on embossed-tape/with suction tape.

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **BM02B-ZESS-TBT, SM02B-ZESS-TB** S...natural Z...ivory E...blue TR...tomato red MG...moss green DH...dark gray DPK...dark pink
L...lemon yellow LE...light blue DO...dark orange DP...dark purple

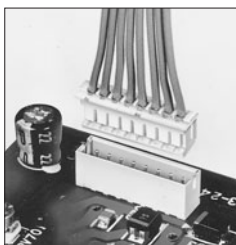
Side entry type

Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
2	SM02B-ZESS-TB	1.5	7.5	1,000
3	SM03B-ZESS-TB	3.0	9.0	1,000
4	SM04B-ZESS-TB	4.5	10.5	1,000
5	SM05B-ZESS-TB	6.0	12.0	1,000
6	SM06B-ZESS-TB	7.5	13.5	1,000
7	SM07B-ZESS-TB	9.0	15.0	1,000
8	SM08B-ZESS-TB	10.5	16.5	1,000
9	SM09B-ZESS-TB	12.0	18.0	1,000
10	SM10B-ZESS-TB	13.5	19.5	1,000
11	SM11B-ZESS-TB	15.0	21.0	1,000
12	SM12B-ZESS-TB	16.5	22.5	1,000
13	SM13B-ZESS-TB	18.0	24.0	1,000
14	SM14B-ZESS-TB	19.5	25.5	1,000
15	SM15B-ZESS-TB	21.0	27.0	1,000
16	SM16B-ZESS-TB	22.5	28.5	1,000

Material and Finish

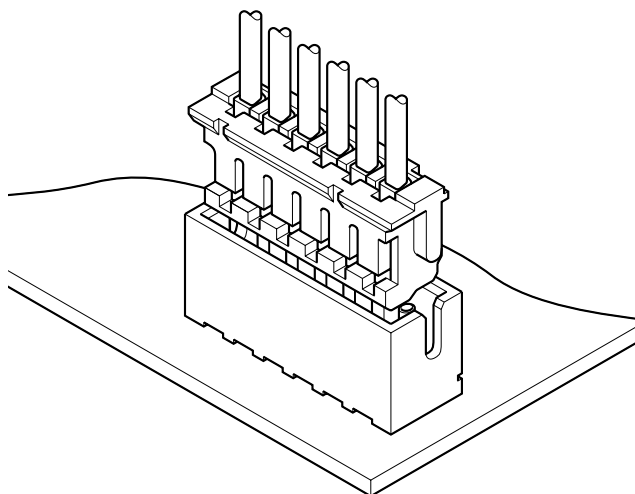
Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Polyamide, UL94V-0, natural
Reinforcement: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.
Note: The products listed above are supplied on embossed-tape/without suction tape.



ZH CONNECTOR

1.5mm pitch/Disconnectable Crimp style connectors



The ZH connector is very small with a mounting height of 5.6mm and a thickness of only 3.5mm. Contact retention lances on the housing make insertion easier, while the dimple at the center of the contact ensures reliable contact with the post.

- Compact, low profile design
- Housing lances
- Reliable contact construction
- Distortion resistant construction
- Compatible with the ZR insulation displacement connectors

Specifications

- Current rating: 1.0 A AC, DC (AWG #26)
- Voltage rating: 50 V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 20 mΩ max.
After environmental tests/ 30 mΩ max.
- Insulation resistance: 500 MΩ min.
- Withstanding voltage: 500 VAC/minute
- Applicable wire: AWG #32 to #26
- Applicable PC board thickness: 0.6 to 1.2 mm, 1.6 mm
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Compliant with RoHS.

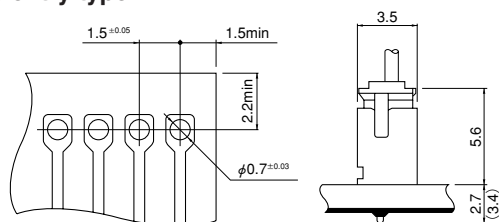
Standards

Recognized E60389

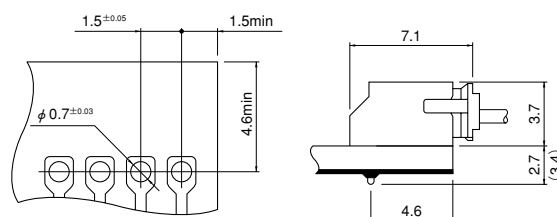
Certified LR20812

〈Through-hole type (viewed from soldering side)〉

Top entry type



Side entry type



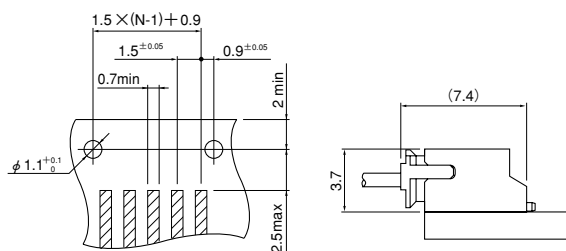
Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.

2. Hole dimension differ according to the type of PC board and piercing method. If PC boards made of hard material are used, the hole dimensions should be larger. The dimensions above should serve as a guideline. Contact JST for details.

〈SMT type (viewed from component side)〉

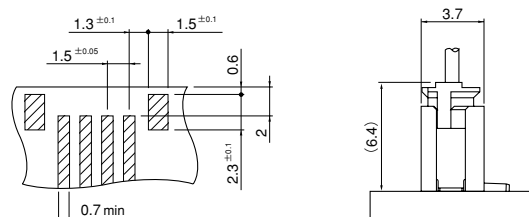
SM2 type

Side entry type

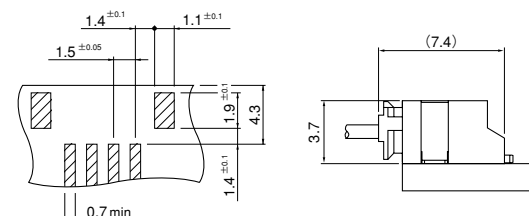


SM4 type

Top entry type



Side entry type

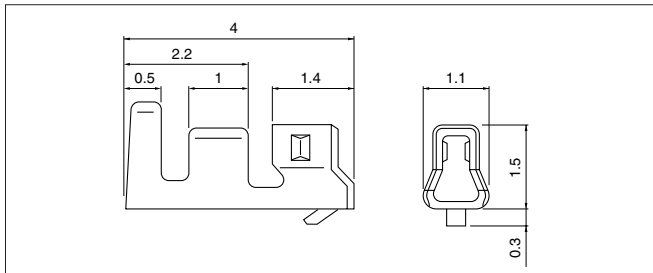


Note: 1. N...Number of circuits

2. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.

3. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SZH-002T-P0.5	AP-K2N	MKS-L	MK/SZH-002-05	APLMK SZH002-05

Note: *Strip-crimp applicator.

Model No.	Applicable wire			Q'ty / reel
	mm²	AWG#	Insulation O.D. (mm)	
SZH-002T-P0.5	0.08 ~0.13	28~26	0.8~1.1	13,000
SZH-003T-P0.5	0.032~0.08	32~28	0.5~0.9	16,000

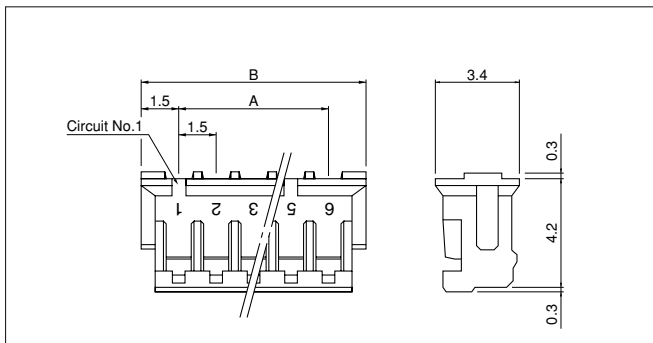
Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SZH-003T-P0.5	AP-K2N	MKS-L	MK/SZH-003-05	APLMK SZH003-05
		*MKS-SC	SC/SZH-003-05	APLSC SZH003-05

Housing



<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **ZHR-2-oo**

(blank)...natural (white)

K...black R...red E...blue M...green L...lemon yellow

LE...light blue DO...dark orange H...gray

Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	ZHR-2	1.5	4.5	1,000
3	ZHR-3	3.0	6.0	1,000
4	ZHR-4	4.5	7.5	1,000
5	ZHR-5	6.0	9.0	1,000
6	ZHR-6	7.5	10.5	1,000
6	ZHR-6(3.0)	15.0	18.0	1,000
7	ZHR-7	9.0	12.0	1,000
8	ZHR-8	10.5	13.5	1,000
9	ZHR-9	12.0	15.0	1,000
10	ZHR-10	13.5	16.5	1,000
11	ZHR-11	15.0	18.0	1,000
12	ZHR-12	16.5	19.5	1,000
13	ZHR-13	18.0	21.0	1,000

Material

PA 66, UL94V-0, natural (white)

RoHS compliance

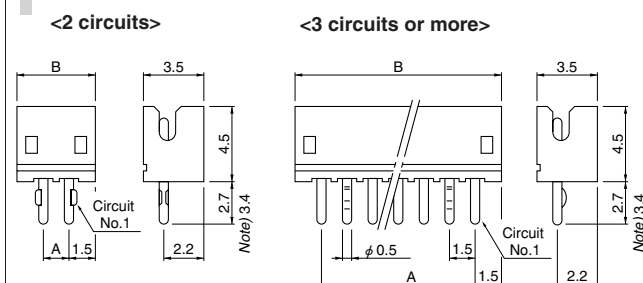
Note: 1. ZHR-6(3.0) is 6 circuits 3.0mm pitch plugged up.

As for this housing, only circuit No.1 is marked.

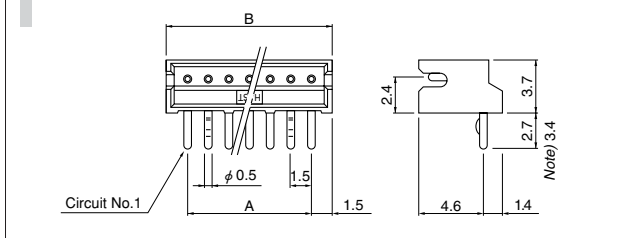
2. ZHR-6(3.0) is not UL/CSA approved.

Through-hole type shrouded header

Top entry type



Side entry type



Circuits	Model No.				Dimensions (mm)		Q'ty / box		
	Top entry type	Side entry type	Note) Top entry type	Note) Side entry type	A	B	Top entry type	Side entry type	Side entry type-3.4
2	B2B-ZR	S2B-ZR	B2B-ZR-3.4	S2B-ZR-3.4	1.5	4.5	2,000	2,000	2,000
3	B3B-ZR	S3B-ZR	B3B-ZR-3.4	S3B-ZR-3.4	3.0	6.0	2,000	2,000	1,000
4	B4B-ZR	S4B-ZR	B4B-ZR-3.4	S4B-ZR-3.4	4.5	7.5	2,000	2,000	2,000
5	B5B-ZR	S5B-ZR	B5B-ZR-3.4	S5B-ZR-3.4	6.0	9.0	2,000	1,000	1,000
6	B6B-ZR	S6B-ZR	B6B-ZR-3.4	S6B-ZR-3.4	7.5	10.5	2,000	1,000	1,000
7	B7B-ZR	S7B-ZR	B7B-ZR-3.4	S7B-ZR-3.4	9.0	12.0	1,000	1,000	1,000
8	B8B-ZR	S8B-ZR	B8B-ZR-3.4	S8B-ZR-3.4	10.5	13.5	1,000	1,000	1,000
9	B9B-ZR	S9B-ZR	B9B-ZR-3.4	S9B-ZR-3.4	12.0	15.0	1,000	1,000	1,000
10	B10B-ZR	S10B-ZR	B10B-ZR-3.4	S10B-ZR-3.4	13.5	16.5	1,000	1,000	1,000
11	B11B-ZR	S11B-ZR	B11B-ZR-3.4	S11B-ZR-3.4	15.0	18.0	1,000	500	500
12	B12B-ZR	S12B-ZR	B12B-ZR-3.4	S12B-ZR-3.4	16.5	19.5	1,000	500	500
13	B13B-ZR	S13B-ZR	B13B-ZR-3.4	S13B-ZR-3.4	18.0	21.0	500	500	500

Material and Finish

Pin: Brass, copper-undercoated, tin-plated (reflow treatment)

Wafer: Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance

This product displays (LF)(SN) on a label.

Note: Headers with 3.4mm long solder tails, suited for the 1.6mm thick PC board.

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **B2B-ZR-3.4-oo**

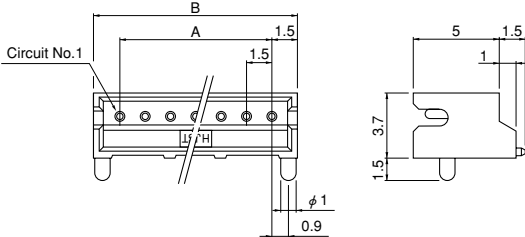
(blank)...natural (ivory)

K...black R...red E...blue M...green Y...Yellow

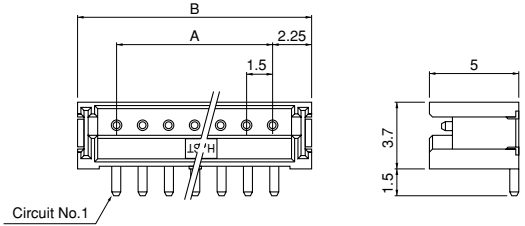
ZH CONNECTOR

SMT type shrouded header

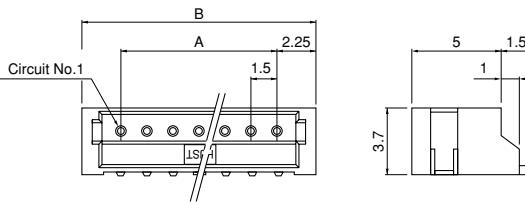
SM2 type
Side entry type



SM4 type (with solder tabs)
Top entry type



Side entry type



SM2 type

Circuits	Model No.	Dimensions (mm)		Q'ty / reel
	Side entry type	A	B	
2	S2B-ZR-SM2-TF	1.5	4.5	1,000
3	S3B-ZR-SM2-TF	3.0	6.0	1,000
4	S4B-ZR-SM2-TF	4.5	7.5	1,000
5	S5B-ZR-SM2-TF	6.0	9.0	1,000
6	S6B-ZR-SM2-TF	7.5	10.5	1,000
7	S7B-ZR-SM2-TF	9.0	12.0	1,000
8	S8B-ZR-SM2-TF	10.5	13.5	1,000
9	S9B-ZR-SM2-TF	12.0	15.0	1,000
10	S10B-ZR-SM2-TF	13.5	16.5	1,000
11	S11B-ZR-SM2-TF	15.0	18.0	1,000
12	S12B-ZR-SM2-TF	16.5	19.5	1,000
13	S13B-ZR-SM2-TF	18.0	21.0	1,000

Material and Finish	
Pin: Brass, copper-undercoated, tin-plated (reflow treatment)	
Wafer: Glass-filled PA 46, UL94V-0, natural (ivory)	

RoHS compliance This product displays (LF)(SN) on a label.

SM4 type

Circuits	Model No.		Dimensions (mm)		Q'ty / reel	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
2	B2B-ZR-SM4-TF	S2B-ZR-SM4A-TF	1.5	6.0	1,000	1,000
3	B3B-ZR-SM4-TF	S3B-ZR-SM4A-TF	3.0	7.5	1,000	1,000
4	B4B-ZR-SM4-TF	S4B-ZR-SM4A-TF	4.5	9.0	1,000	1,000
5	B5B-ZR-SM4-TF	S5B-ZR-SM4A-TF	6.0	10.5	1,000	1,000
6	B6B-ZR-SM4-TF	S6B-ZR-SM4A-TF	7.5	12.0	1,000	1,000
7	B7B-ZR-SM4-TF	S7B-ZR-SM4A-TF	9.0	13.5	1,000	1,000
8	B8B-ZR-SM4-TF	S8B-ZR-SM4A-TF	10.5	15.0	1,000	1,000
9	B9B-ZR-SM4-TF	S9B-ZR-SM4A-TF	12.0	16.5	1,000	1,000
10	B10B-ZR-SM4-TF	S10B-ZR-SM4A-TF	13.5	18.0	1,000	1,000
11	B11B-ZR-SM4-TF	S11B-ZR-SM4A-TF	15.0	19.5	1,000	1,000
12	B12B-ZR-SM4-TF	S12B-ZR-SM4A-TF	16.5	21.0	1,000	1,000
13	B13B-ZR-SM4-TF	S13B-ZR-SM4A-TF	18.0	22.5	1,000	1,000

Material and Finish	
Pin: Brass, copper-undercoated, tin-plated (reflow treatment)	
Wafer: PA 6T, UL94V-0, natural (ivory)	
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)	

RoHS compliance This product displays (LF)(SN) on a label.

- Note: 1. PA 9T is used for some colored products.
2. The products listed above are supplied on embossed-tape.
3. Contact JST for the top entry type headers with suction cap.

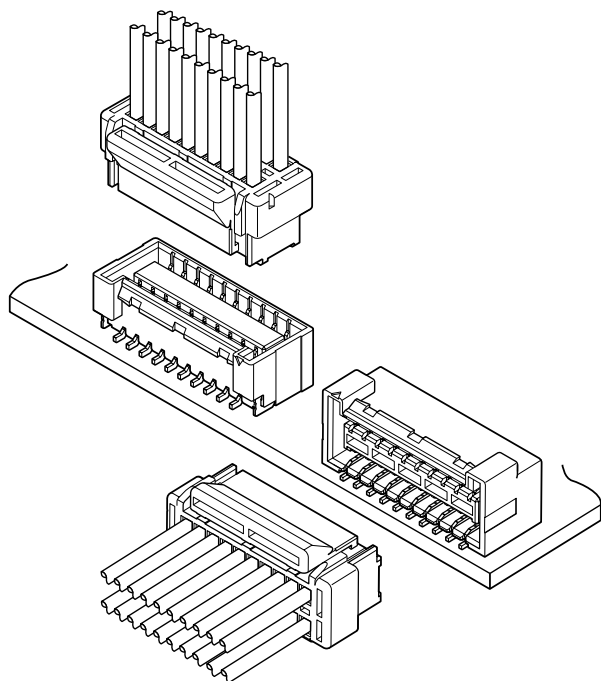
<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **S2B-ZR-SM4A-oo-TF**
(blank)...natural (ivory)
K...black R...red E...blue M...green L...lemon yellow
LE...light blue DO...dark orange DH...dark gray



ZPD CONNECTOR

1.5mm pitch/Disconnectable Crimp style connectors



In order to correspond to the high-density PC board designing, this ZPD connector is designed as 1.5mm pitch double row type connector with secure locking device. Low insertion force is realized and good mating feeling is also prepared, and these provide the certain mating operation.

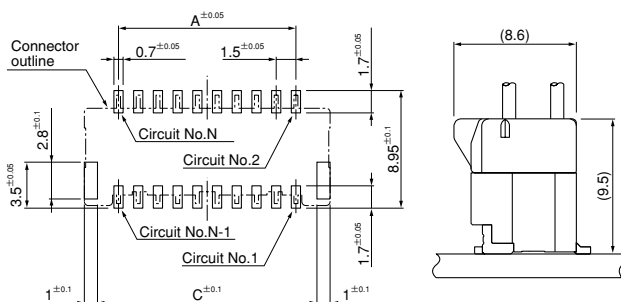
- **Secure locking structure**
- **Low insertion force**
- **Suction area for picking up**
- **Improvement of engagement with prying**

Specifications

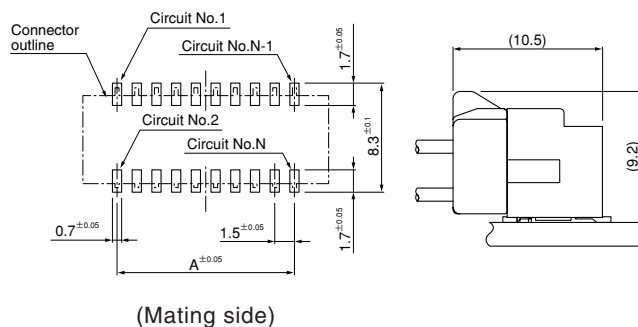
- Current rating: 2 A/ 10 to 30 circuits AC, DC (AWG #24)
1.5A/ 32 to 40 circuits AC, DC (AWG #24)
- Voltage rating: 100 V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 30 mΩ max.
After environmental tests/ 60 mΩ max.
- Insulation resistance: 500 MΩ min.
- Withstanding voltage: 500 VAC/minute
- Applicable wire: Conductor size/ AWG #28 to #24
Insulation O.D./ 0.8 to 1.2 mm

- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Compliant with RoHS.

Top entry type



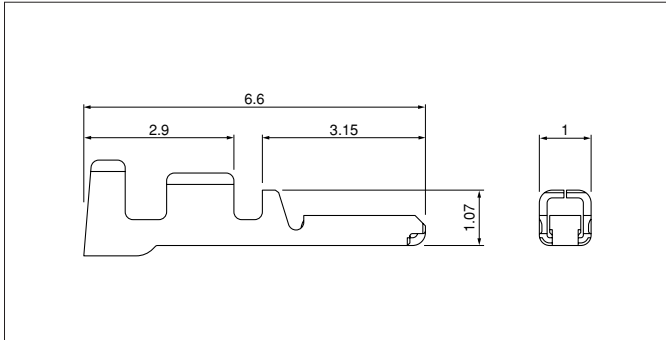
Side entry type



Note: 1. The above figure is the figure viewed from the connector mounting side.
2. Tolerances are non-cumulative: ± 0.05 mm for all centers.
3. The dimensions above should serve as a guideline. Contact JST for details.

ZPD CONNECTOR

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SZPD-002T-P0.3	0.08~0.21	28~24	0.8~1.2	16,000

Material and Finish

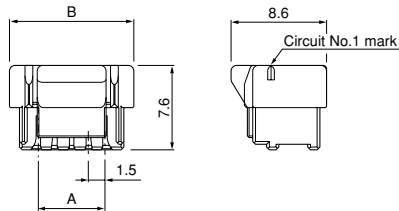
Copper alloy, tin-plated (reflow treatment)

RoHS compliance

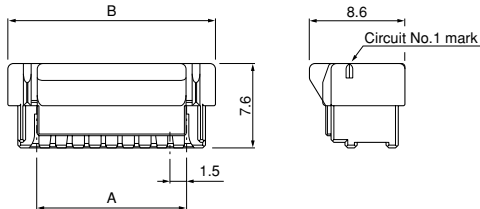
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SZPD-002T-P0.3	AP-K2N	MKS-L	MK/SZE-002-03	APLMK SZE002-03

Housing

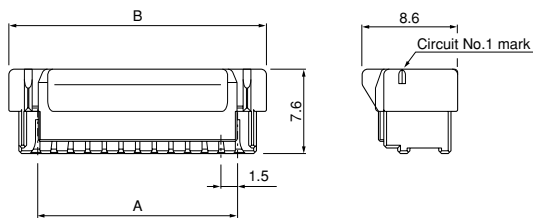
<10 circuits>



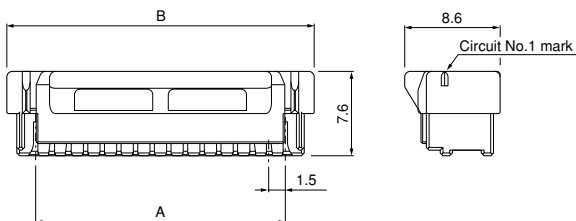
<12 to 24 circuits>



<26 to 30 circuits>



<32 to 40 circuits>



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
10	ZPDR-10V-S	6.0	11.2	1,000
12	ZPDR-12V-S	7.5	12.7	1,000
14	ZPDR-14V-S	9.0	14.2	1,000
16	ZPDR-16V-S	10.5	15.7	1,000
18	ZPDR-18V-S	12.0	17.2	1,000
20	ZPDR-20V-S	13.5	18.7	1,000
22	ZPDR-22V-S	15.0	20.2	1,000
24	ZPDR-24V-S	16.5	21.7	1,000
26	ZPDR-26V-S	18.0	23.2	1,000
28	ZPDR-28V-S	19.5	24.7	500
30	ZPDR-30V-S	21.0	26.2	500
32	ZPDR-32V-1-Z	22.5	27.7	500
34	ZPDR-34V-1-Z	24.0	29.2	500
36	ZPDR-36V-1-Z	25.5	30.7	500
38	ZPDR-38V-1-Z	27.0	32.2	500
40	ZPDR-40V-1-Z	28.5	33.7	500

Material

PBT, UL94V-0, natural (10 to 30 circuits), ivory (32 to 40 circuits)

RoHS compliance

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **ZPDR-10V-S**

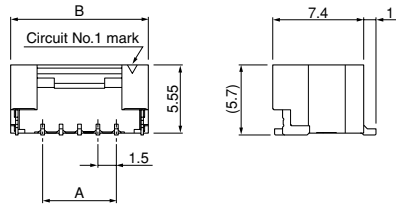
10 to 30 circuits S...natural Z...ivory MG...moss green
TR...tomato red DPK...dark pink E...blue
32 to 40 circuits Z...ivory K...black

ZPD CONNECTOR

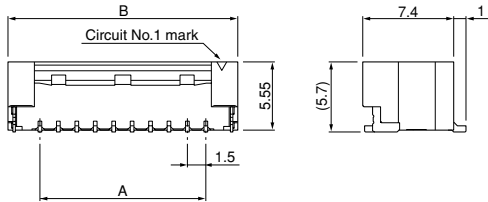
Shrouded header

Top entry type

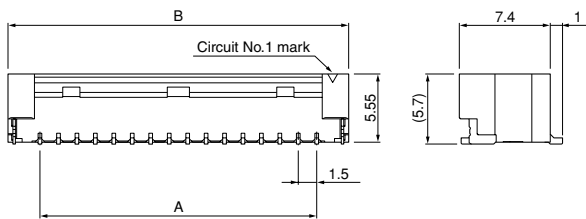
<10 circuits>



<12 to 30 circuits>

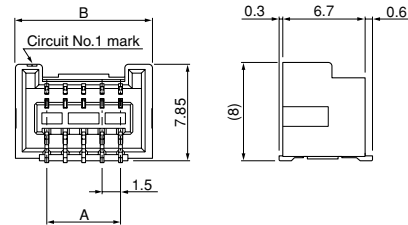


<32 to 40 circuits>

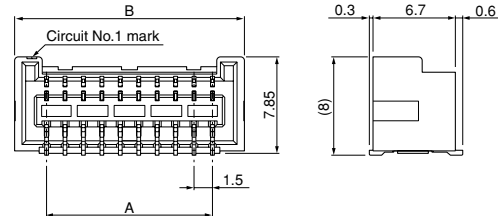


Side entry type

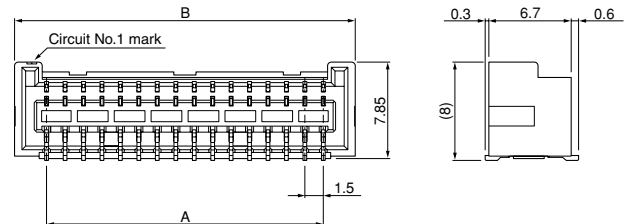
<10 circuits>



<12 to 30 circuits>



<32 to 40 circuits>



Top entry type

Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
10	BM10B-ZPDSS-TF	6.0	11.2	9.2	1,000
12	BM12B-ZPDSS-TF	7.5	12.7	10.7	1,000
14	BM14B-ZPDSS-TF	9.0	14.2	12.2	1,000
16	BM16B-ZPDSS-TF	10.5	15.7	13.7	1,000
18	BM18B-ZPDSS-TF	12.0	17.2	15.2	1,000
20	BM20B-ZPDSS-TF	13.5	18.7	16.7	1,000
22	BM22B-ZPDSS-TF	15.0	20.2	18.2	1,000
24	BM24B-ZPDSS-TF	16.5	21.7	19.7	1,000
26	BM26B-ZPDSS-TF	18.0	23.2	21.2	1,000
28	BM28B-ZPDSS-TF	19.5	24.7	22.7	1,000
30	BM30B-ZPDZS-TF	21.0	26.2	24.2	1,000
32	BM32B-ZPDZS-TF	22.5	27.7	25.7	1,000
34	BM34B-ZPDZS-TF	24.0	29.2	27.2	1,000
36	BM36B-ZPDZS-TF	25.5	30.7	28.7	1,000
38	BM38B-ZPDZS-TF	27.0	32.2	30.2	1,000
40	BM40B-ZPDZS-TF	28.5	33.7	31.7	1,000

Material and Finish

Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
 Wafer: Polyamide, UL94V-0, natural (10 to 30 circuits)
 LCP, UL94V-0, ivory (32 to 40 circuits)
 Reinforcing tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Side entry type

Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
10	SM10B-ZPDSS-TF	6.0	11.2	700
12	SM12B-ZPDSS-TF	7.5	12.7	700
14	SM14B-ZPDSS-TF	9.0	14.2	700
16	SM16B-ZPDSS-TF	10.5	15.7	700
18	SM18B-ZPDSS-TF	12.0	17.2	700
20	SM20B-ZPDSS-TF	13.5	18.7	700
22	SM22B-ZPDSS-TF	15.0	20.2	700
24	SM24B-ZPDSS-TF	16.5	21.7	700
26	SM26B-ZPDSS-TF	18.0	23.2	700
28	SM28B-ZPDSS-TF	19.5	24.7	700
30	SM30B-ZPDSS-TF	21.0	26.2	700
32	SM32B-ZPDZS-TF	22.5	27.7	700
34	SM34B-ZPDZS-TF	24.0	29.2	700
36	SM36B-ZPDZS-TF	25.5	30.7	700
38	SM38B-ZPDZS-TF	27.0	32.2	700
40	SM40B-ZPDZS-TF	28.5	33.7	700

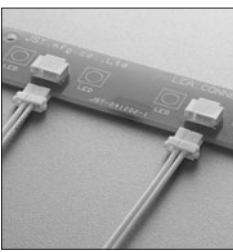
Material and Finish

Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
 Wafer: Polyamide, UL94V-0, natural (10 to 30 circuits)
 LCP, UL94V-0, ivory (32 to 40 circuits)

RoHS compliance This product displays (LF)(SN) on a label.
 The products listed above are supplied on embossed-tape.

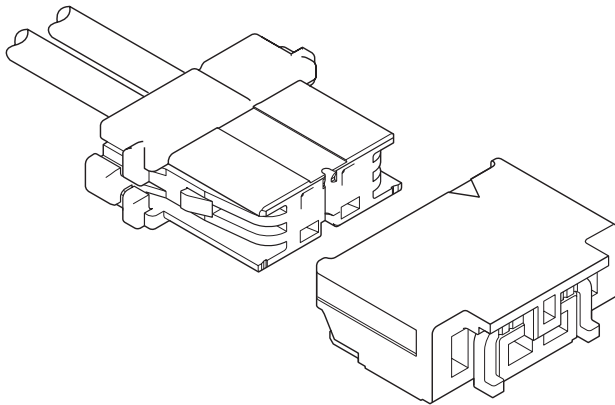
<For reference> As the color identification, the following alphabet shall be put in the underlined part.
 For availability, delivery and minimum order quantity, contact JST.

ex. **BM10B-ZPDSS-TF** **SM10B-ZPDSS-TF**
 10 to 30 circuits S...natural Z...ivory MG...moss green TR...tomato red DPK...dark pink E...blue
 32 to 40 circuits Z...ivory K...black



LEA CONNECTOR

1.8mm pitch/For LED Lamp/Disconnectable Crimp style connectors



Considering that the connector does not affect the luminescence angle of LED chip, this low profile type connector (height: 3mm) is designed for connection to LED lamp and realized space saving. A secure locking mechanism is arranged to this connector in order to consider the handling of wire in actual use, although this is a low profile.

- **Secure locking mechanism**
- **Mechanism for preventing inverse insertion**
- **Contact lance**

Specifications

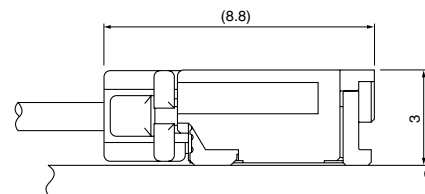
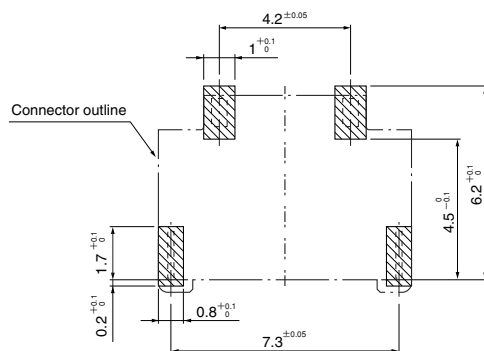
- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 300V AC, DC
- Temperature range: -55°C to +105°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 10m Ω max.
After environmental testing/ 20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,700V AC/minute
- Applicable wire: Conductor size/ AWG #30 to #22
Insulation O.D./ 0.7 to 1.3mm

- * Compliant with RoHS.
- * Halogen-free products are also available.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

 Recognized E60389

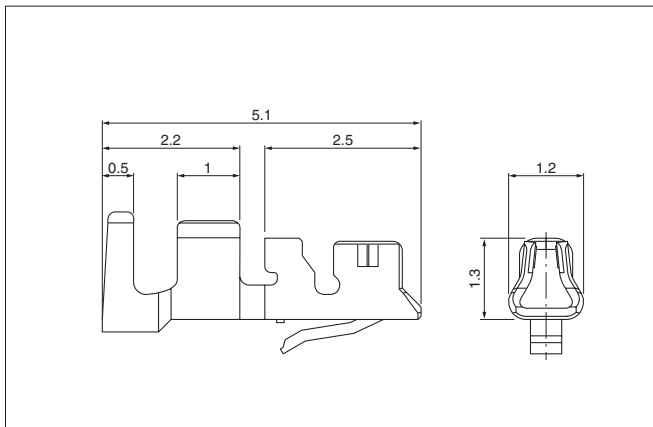
 Certified LR20812



Note: 1. The above figure is the figure viewed from the connector mounting side.

2. Tolerances are non-cumulative: ± 0.05 mm for all centers. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire			Q'ty / reel
	mm ²	AWG#	Insulation O.D. (mm)	
SSFH-001T-P0.5	0.13~0.33	26~22	0.95~1.3	15,000
SSFH-002T-P0.5	0.05~0.13	30~26	0.7 ~1.25	15,000

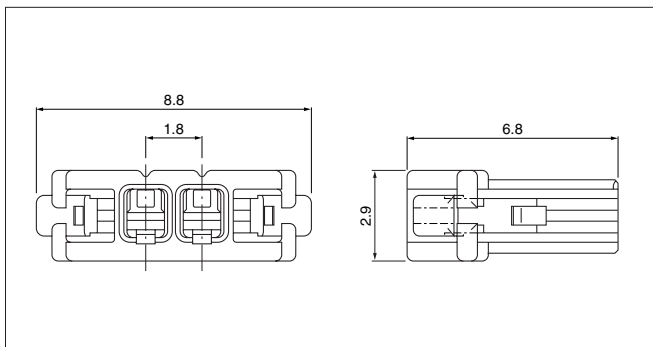
Material and Finish

Copper alloy, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SSFH-001T-P0.5	AP-K2N	MKS-L	MK/SSFH-001-05	APLMK SSFH001-05
		—	—	—
SSFH-002T-P0.5	AP-K2N	MKS-L	MK/SSFH-002-05	APLMK SSFH002-05
		—	—	—

Housing



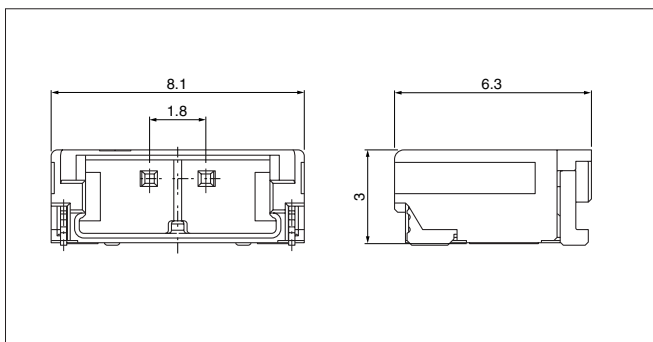
Circuits	Model No.	Q'ty / bag
2	LEAR-02V-S	2,000

Material

PBT, UL94V-0, natural

RoHS compliance

Shrouded header



Circuits	Model No.	Q'ty / reel
2	SM02B-LEASS-TF	2,000

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Housing: PA 9T, UL94V-0, white

Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance

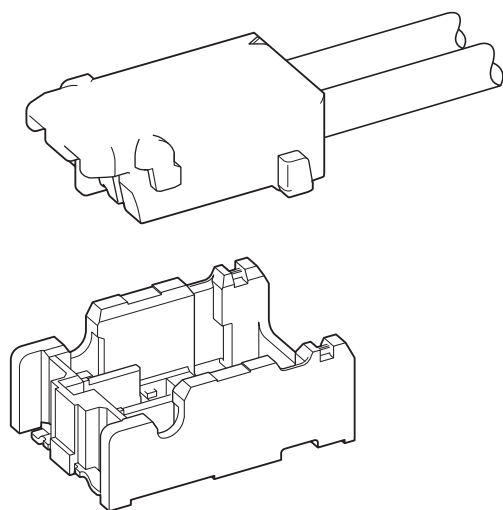
This product displays (LF)(SN) on a label.

Note: The products listed above are supplied on embossed-tape.



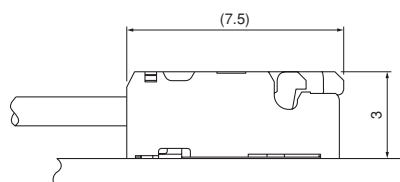
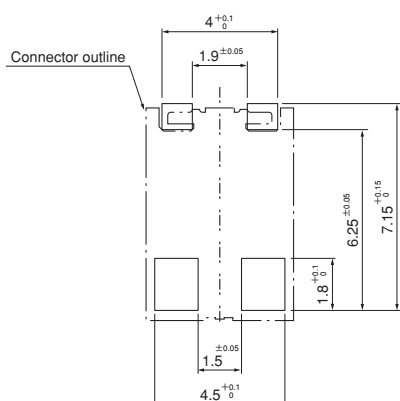
LEH CONNECTOR

1.8mm pitch/For LED Lamp/Disconnectable Crimp style connectors



Considering about the luminescence property of LED package and the mating operability, this LEH connector is designed as low profile type connector for LED lighting, and achieves the space saving. In consideration of connector mating operation to the LED mounting PCB that is integrated in the equipment, side-feed mechanism that provides to enable mating the connector from right above is adopted, and secure lock and mechanism for preventing wrong insertion are provided.

- Low profile and space saving design
Mounting height at connector mounting side : 3mm
- Secure locking mechanism
- Mechanism for preventing wrong insertion
- Halogen-free and RoHS compliant



Specifications

- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 300V AC, DC
- Temperature range: -55°C to +105°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 10m Ω max.
After environmental testing/ 20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: Conductor size/ AWG #26 to #22
Insulation O.D./ 0.95 to 1.3mm

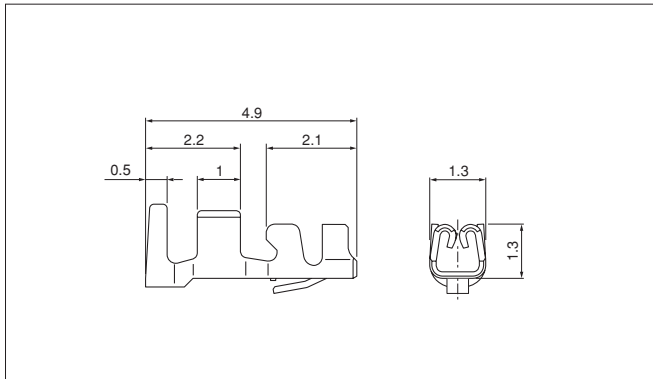
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Table of product combinations

Key pattern		A	B
Housing	Color	White	Blue
	Model No.	LEHR-02V-S-A(HF)	LEHR-02V-E-B(HF)
	Color	Natural	Blue
	Model No.	BM02B-LEHSS-A-TB(HF)	BM02B-LEHES-B-TB(HF)

Note: 1. The figure on the left side is the figure viewed from the connector mounting side.
2. Tolerances are non-cumulative: ± 0.05 mm for all centers.
The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire			Q'ty / reel
	mm ²	AWG#	Insulation O.D. (mm)	
SLEH-001T-P0.15	0.13~0.33	26~22	0.95~1.3	12,000

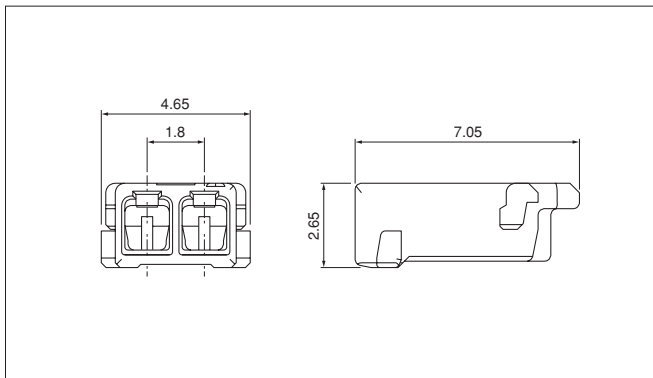
Material and Finish

Copper alloy, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SLEH-001T-P0.15	AP-K2N	MKS-L	MK/SLEH-001-015	APLMK SLEH001-015
		—	—	—

Housing



Circuits	Key pattern	Color	Model No.	Q'ty / bag
2	A	White	LEHR-02V-S-A(HF)	1,000
	B	Blue	LEHR-02V-E-B(HF)	1,000

Material

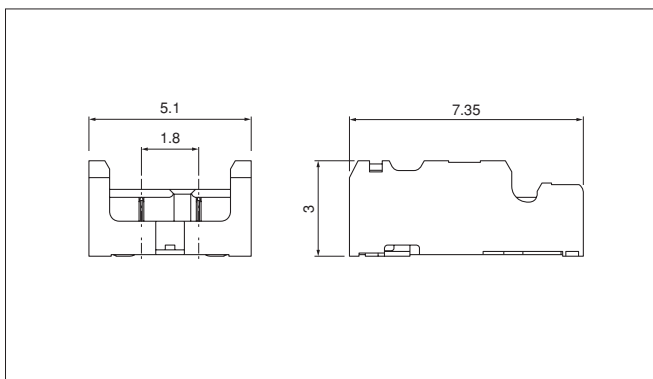
Glass-filled PA 66, UL94V-0

RoHS compliance

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **LEHR-02V-S-A(HF)**
S...white E...blue

Shrouded header



Circuits	Key pattern	Color	Model No.	Q'ty / reel
2	A	Natural	BM02B-LEHSS-A-TB(HF)	3,400
	B	Blue	BM02B-LEHES-B-TB(HF)	3,400

Material and Finish

Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Housing: PA 9T, UL94V-0

RoHS compliance

Note: The products listed above are supplied on embossed-tape.

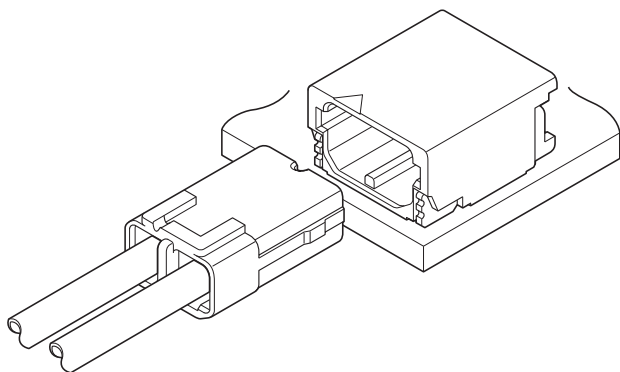
<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **BM02B-LEHSS-A-TB(HF)**
S...natural E...blue



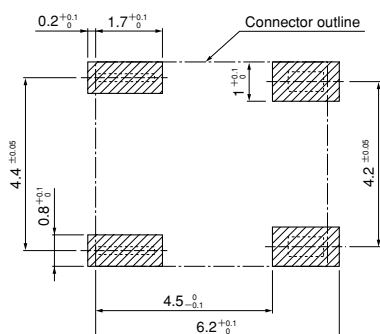
SFH CONNECTOR

1.8mm pitch/Disconnectable Crimp style connectors

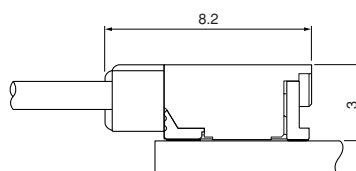


This low profile type connector with height of 3.0mm is designed for connection to stroboscope flash and realized space saving.

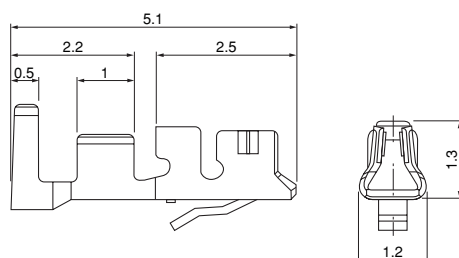
- **Contact lance**
- **Countermeasure for inverse insertion and locking feature**



Note: 1. The above figure is the figure viewed from the connector mounting side.
2. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
3. The dimensions above should serve as a guideline. Contact JST for details.



Contact



Specifications

- Current rating: 4A AC, DC (AWG #22)
- Voltage rating: 350V AC, DC
- Temperature range: -25°C to $+85^{\circ}\text{C}$
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 10m Ω max.
After environmental testing/ 20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,700V AC/minute
- Applicable wire: Conductor size/ AWG #30 to #22
Insulation O.D./ 0.7 to 1.3mm

- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

Recognized E60389

Certified LR20812

Model No.	Applicable wire			Q'ty / reel
	mm ²	AWG#	Insulation O.D. (mm)	
SSFH-001T-P0.5	0.13~0.33	26~22	0.95~1.3	15,000
SSFH-002T-P0.5	0.05~0.13	30~26	0.7 ~1.25	15,000

Material and Finish

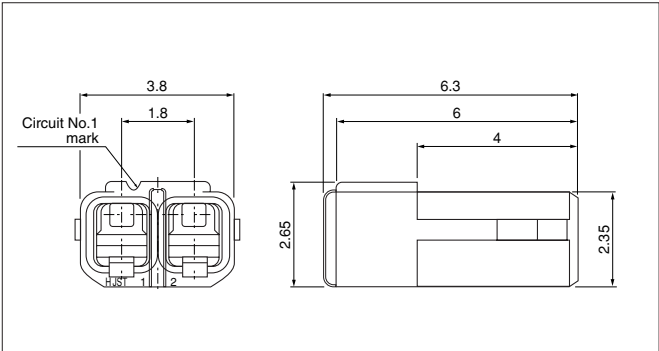
Copper alloy, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SSFH-001T-P0.5	AP-K2N	MKS-L	MK/SSFH-001-05	APLMK SSFH001-05
		—	—	—
SSFH-002T-P0.5	AP-K2N	MKS-L	MK/SSFH-002-05	APLMK SSFH002-05
		—	—	—

SFH CONNECTOR

Housing



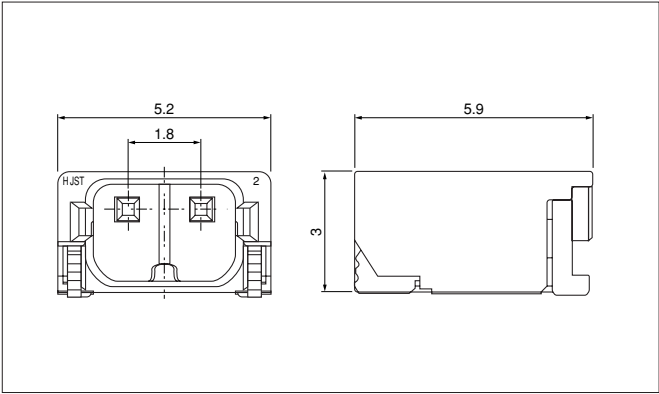
Circuits	Model No.	Q'ty / bag
2	SFHR-02V-R	1,000
Material		
Thermoplastic resin, UL94V-0		

RoHS compliance

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **SFHR-02V-R**
R...red
L...lemon yellow

Shrouded header



Circuits	Model No.	Q'ty / reel
2	SM02B-SFHRS-TF	2,000
Material and Finish		
Press pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Wafer: Heat resisting resin, UL94V-0 Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)		

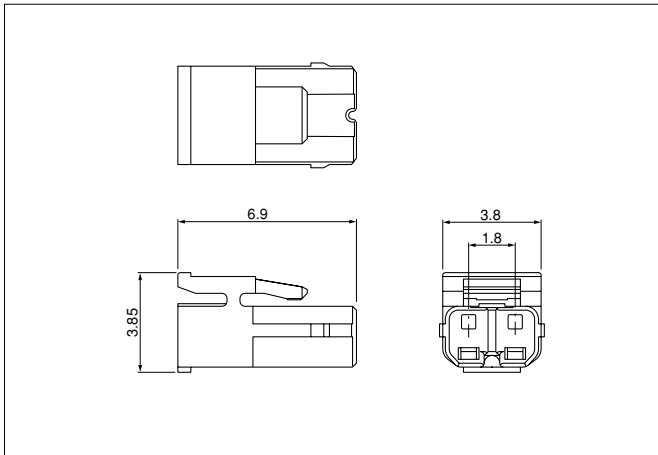
RoHS compliance

This product displays (LF)(SN) on a label. <For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **SM02B-SFHRS-TF**
R...red
L...lemon yellow



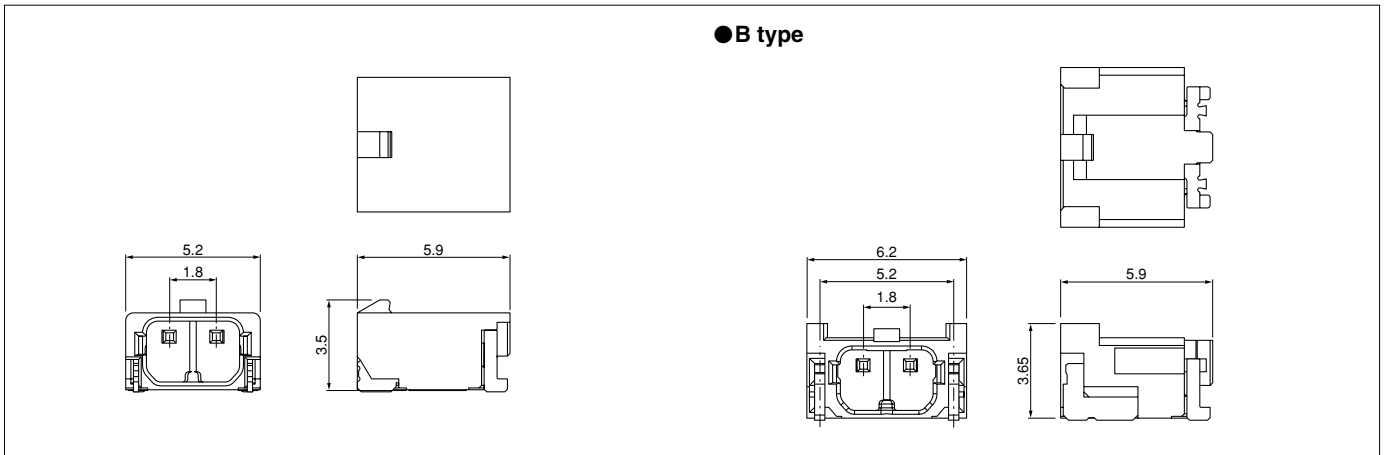
Housing



Circuits	Model No.	Q'ty / bag
2	SFKR-02V-S	2,000
Material		
PA 66, UL94V-0, natural (white)		

RoHS compliance

Header



●B type

Circuits	Model No.	Q'ty / reel
2	SM02B-SFKH-TF	3,000

Material and Finish

Press pin: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 6T, UL94V-0, gray
Solder tail: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance

Note: The product listed above is supplied on embossed-tape.

●B type

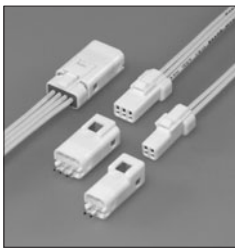
Circuits	Model No.	Q'ty / reel
2	SM02B-SFKBS3-TF	3,000

Material and Finish

Press pin: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 4T, UL94V-0, natural
Solder tail: Brass, copper-undercoated, tin-plated (reflow treatment)

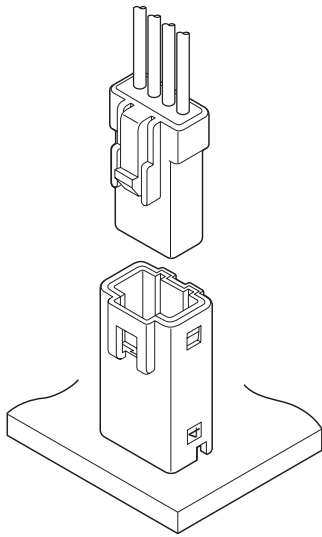
RoHS compliance

Note: The product listed above is supplied on embossed-tape.



JWPF CONNECTOR

2.0mm pitch/Disconnectable Crimp style connectors



This JWPF connector can be used for the place of which especially waterproof is required.

This is the wire-to-board connector that is grade 7 ingress protection of JIS C 0920 (IPX7 of IEC 60529).

- **Waterproof performance**
- **Contained seal ring**
- **Solid rubber seal**
- **Double-spring construction**
- **Housing-to-terminal locks**
- **Inner housing lock**
- **Header for use specifically with resin coated ("potted") PC board**

Specifications

- Current rating: 3 A AC, DC (AWG #22)
- Voltage rating: 100 V AC, DC
- Temperature range: -55°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 10 mΩ max.
After environmental tests/ 15 mΩ max.
- Insulation resistance: 1,000 MΩ min.
- Withstanding voltage: 1,000 VAC/minute
- Applicable wire: AWG #26 to #22
0.13 to 0.33 mm²
Insulation O.D./ 1.4 to 1.7 mm
- Waterproof grade: Grade 7 ingress protection of JIS C 0920 (IPX7 of IEC 60529)

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

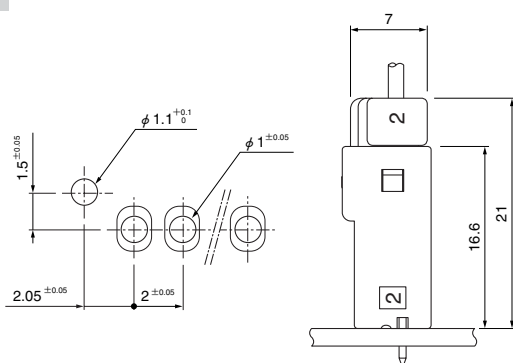
* Contact JST for details.

* Compliant with RoHS.

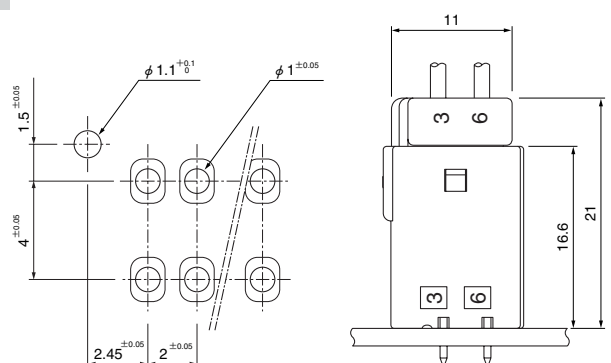
Standards

Ⓜ Recognized E60389

Single-row type



Double-row type



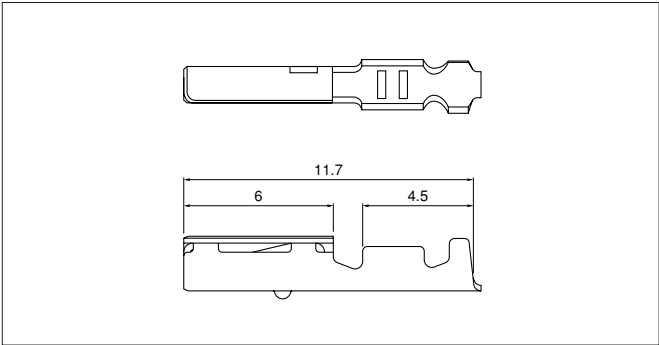
Note: 1. The above figure is the figure viewed from the connector mounting side.

2. Tolerances are non-cumulative: ±0.05mm for all centers.

3. Hole dimension differ according to the type of PC board and piercing method. If PC boards made of hard material are used, the hole dimensions should be larger. The dimensions above should serve as a guideline. Contact JST for details.

JWPF CONNECTOR

Contact



Model No.	Applicable wire		Insulation O.D (mm)	Q'ty / reel
	mm²	AWG#		
SWPR-001T-P025	0.13~0.33	26~22	1.4~1.7	8,200

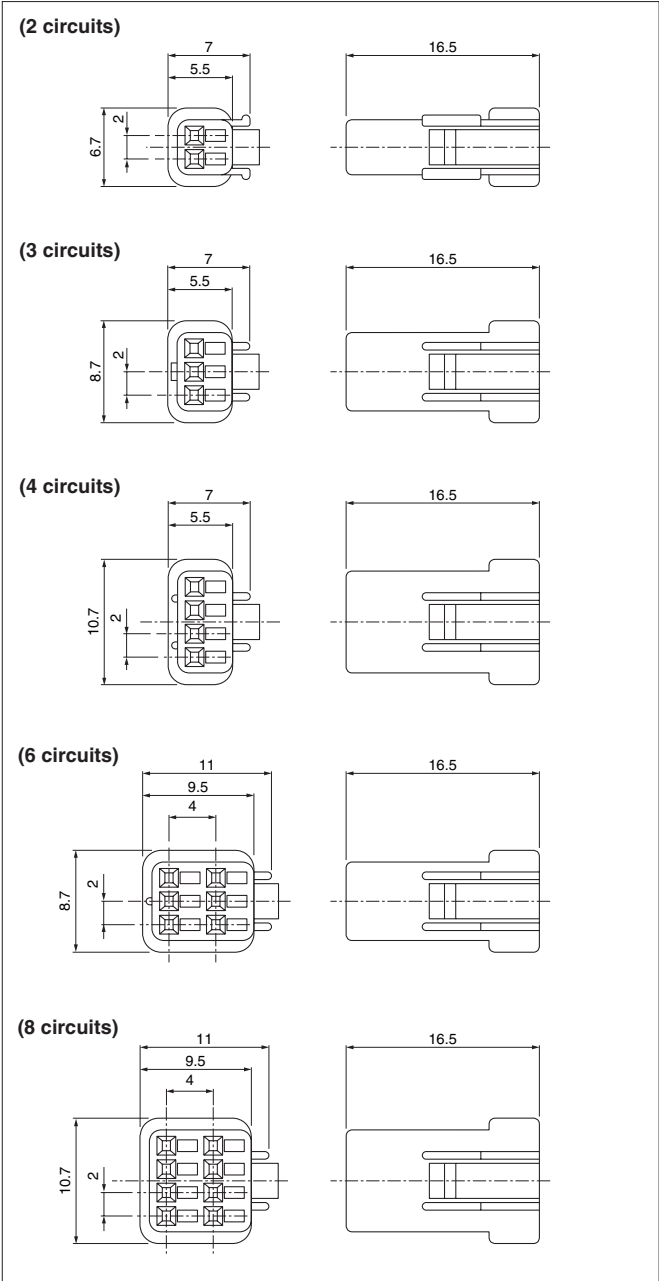
Material and Finish

Copper alloy, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SWPR-001T-P025	AP-K2N	MKS-L	MK/SWPR/T-001-025	APLMK SWPR/T001-025
		—	—	—

Housing



Circuits	Model No.	Q'ty / bag
2	02R-JWPF-VSLE-S	1,000
3	03R-JWPF-VSLE-S	1,000
4	04R-JWPF-VSLE-S	1,000
6	06R-JWPF-VSLE-D	1,000
8	08R-JWPF-VSLE-D	1,000

Material

PBT, UL94V-0, natural (white)

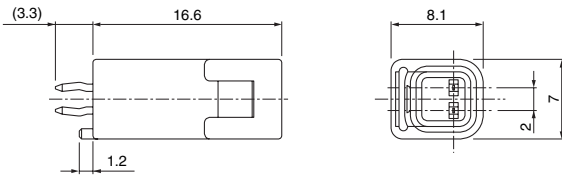
RoHS compliance

Note: Housing comes with seal rubber plate.

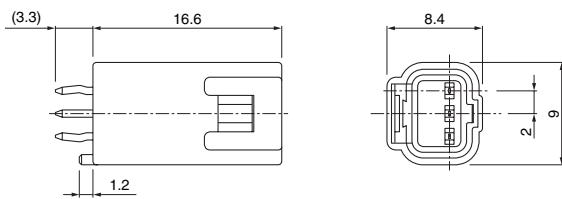
JWPF CONNECTOR

Shrouded header

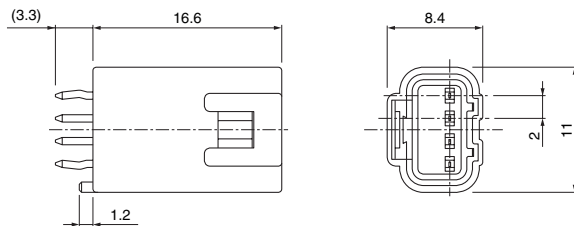
(2 circuits)



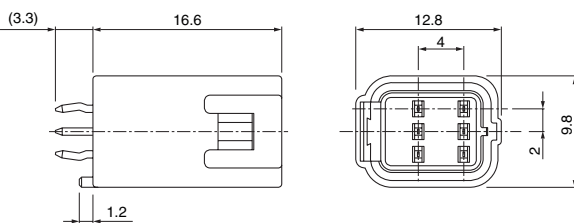
(3 circuits)



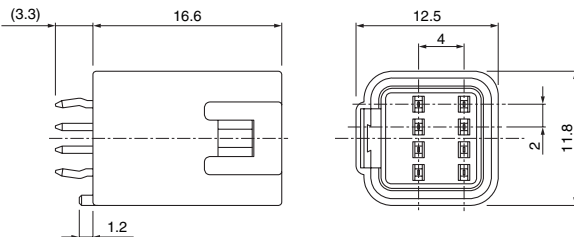
(4 circuits)



(6 circuits)



(8 circuits)



Circuits	Model No.	Q'ty / box
2	B02B-JWPF-SK-R	825
3	B03B-JWPF-SK-R	650
4	B04B-JWPF-SK-R	525
6	B06B-JWPF-SK-R	330
8	B08B-JWPF-SK-R	270

Material and Finish

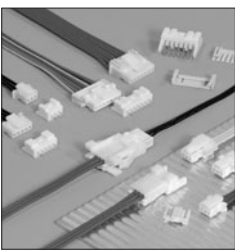
Press pin: Copper alloy, tin-plated (reflow treatment)

Seal ring: Silicon rubber

Seal ring holder: PBT, UL94V-0, yellow

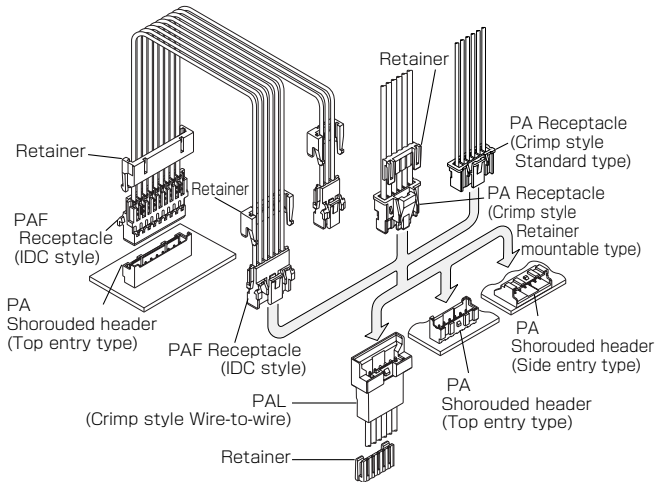
Wafer: Glass-filled PBT, UL94V-0, natural (white)

RoHS compliance This product displays (LF)(SN) on a label.



PA FAMILY SERIES/PA•PAF•PAL CONNECTOR

2.0mm pitch/Wire-to-board (Crimp style/IDC) / Wire-to-wire (Crimp style/IDC)



Based upon wire-to-board crimp style PA connectors, the PA series family of connector have been expanded to meet the requirement of complex wire harness of 2.0mm pitch connectors with secure locking mechanism thanks to the additional line up of wire-to-board IDC style PAF connectors and wire-to-wire crimp style PAL connectors.

- **Secure locking device**
- **Interchangeable between crimp and IDC socket**
- **Secondary retainers**
- **Harness variation**

PA connector (Standard type, Retainer mountable type)

- **Highly reliable contact**
- **Insertion guide mechanism**
- **Flanged press pin**

PAF connector

- **The industry's first secure lock ID connectors**
- **Metallic strain relief**
- **Retainer with four locking points**

PAL connector

- **The industry's first wire to wire 2.0mm pitch retainer mountable type connector.**
- **Either with or without panel lock can be selected according to application.**

Standards

Recognized E60389

Certified LR20812

Specifications

PA Connector (Standard type)

- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 10m Ω max.
After environmental testing/ 20m Ω max.
- Insulation resistance: Initial/ 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: AWG #28 to #22
- Applicable PC board thickness: 1.6mm

PA Connector (Retainer mountable type)

- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 100V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 15m Ω max.
After environmental testing/ 25m Ω max.
- Insulation resistance: Initial/ 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: AWG #28 to #22

PAF Connector

- Current rating: 1.0A AC, DC (AWG #26)
- Voltage rating: 100V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 15m Ω max.
After environmental testing/ 25m Ω max.
- Insulation resistance: Initial/ 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: UL1061(Contact JST for details regarding other UL wires.)
AWG #26
Conductor/ 7 strands, tin-coated annealed copper
Insulation O.D./ 0.9 to 1.0mm

PAL Connector

- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 100V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 15m Ω max.
After environmental testing/ 25m Ω max.
- Insulation resistance: Initial/ 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: AWG #28 to #22
- Applicable panel thickness : 0.5 to 2.0mm

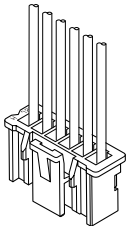
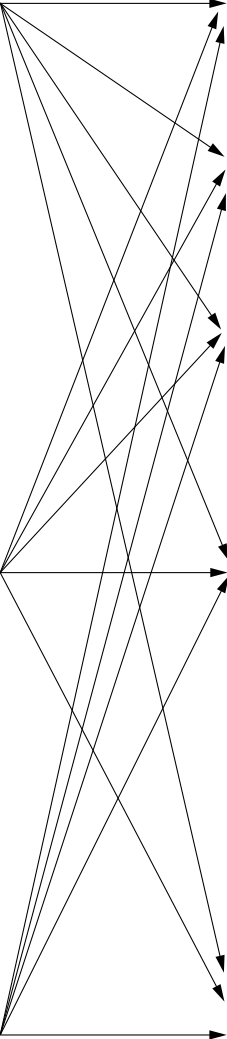
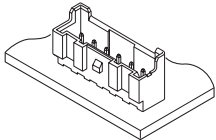
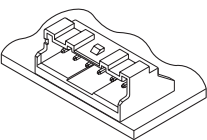
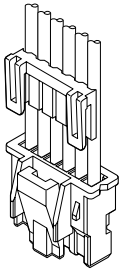
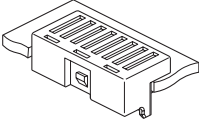
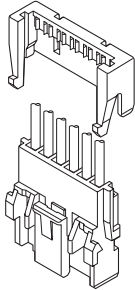
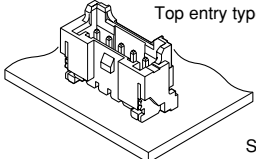
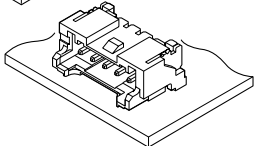
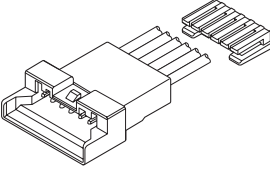
* Compliant with RoHS.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

PA FAMILY SERIES /PA•PAF•PAL CONNECTOR

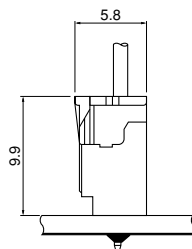
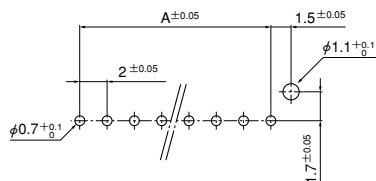
List of combinations

Crimp style Standard type 	<u>Contact</u> SPHD-001T-P0.5 SPHD-002T-P0.5 <u>Housing</u> PAP-()V-S		<u>Shrouded header</u> B()B-PASK B()B-PASK-1 S()B-PASK-2	Top entry type  Side entry type 
Crimp style Retainer mountable type 	<u>Contact</u> SPA-001T-P0.5 <u>Housing</u> PARP-()V <u>Retainer</u> PMS-()V-S		<u>Shrouded header</u> BE()B-PASK	Bottom type 
Insulation displacement type 	<u>Receptacle</u> ()PAF-6S <u>Retainer</u> PAFS-()V-S		<u>Shrouded header</u> BM()B-PASS BM()B-PASS-1 SM()B-PASS SM()B-PASS-1	SMT type Top entry type  Side entry type 
			<u>Contact</u> SPAL-001T-P0.5 SPAL-002T-P0.5 <u>Receptacle housing</u> PALR-()V(F) <u>Retainer</u> PMS-()V-S	Wire to wire Connectors 

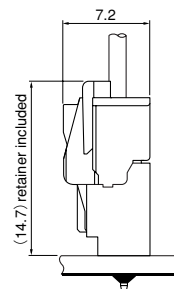
PA FAMILY SERIES /PA•PAF•PAL CONNECTOR

Through-hole type

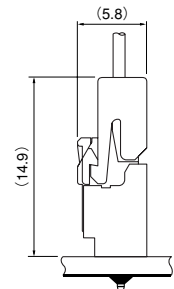
Top entry type



PA Receptacle
(Standard type)
+
PA Header

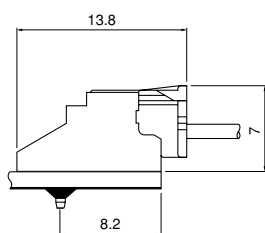
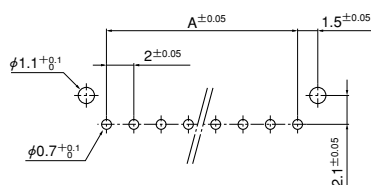


PA Receptacle
(Retainer mountable type)
+
PA Header

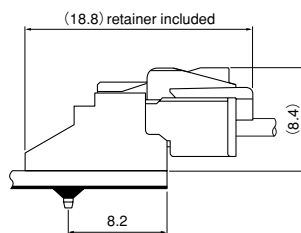


PAF Receptacle
+
PA Header

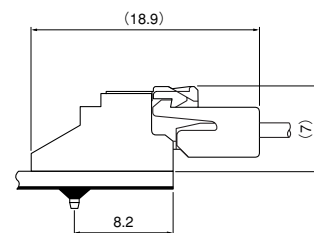
Side entry type



PA Receptacle
(Standard type)
+
PA side entry type header

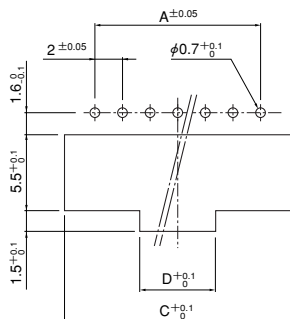


PA Receptacle
(Retainer mountable type)
+
PA side entry type header

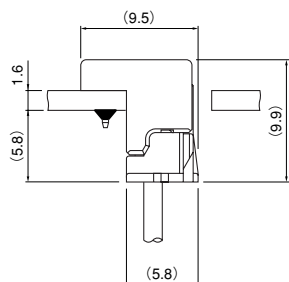


PAF Receptacle
+
PA side entry type header

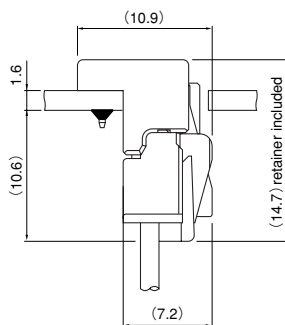
Bottom type



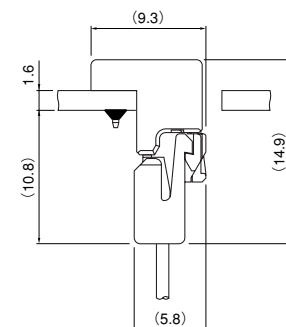
Note: C and D dimensions; Refer to the header bottom type.



PA Receptacle
(Standard type)
+
PA bottom type header

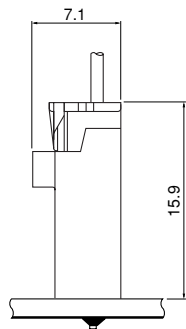
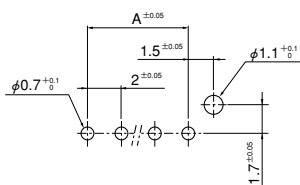


PA Receptacle
(Retainer mountable type)
+
PA bottom type header

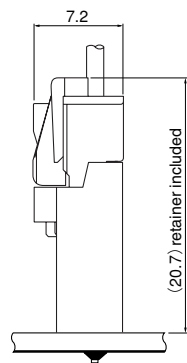


PAF Receptacle
+
PA bottom type header

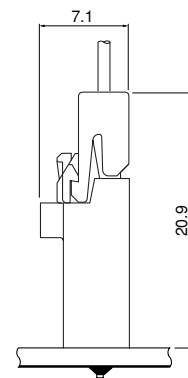
High box type



PA Receptacle
(Standard type)
+
PA high box type header



PA Receptacle
(Retainer mountable type)
+
PA high box type header



PAF Receptacle
+
PA high box type header

Note: 1. The above figure is the figure viewed from the connector mounting side.

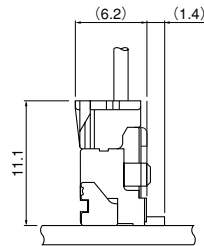
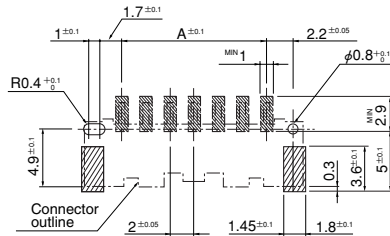
2. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.

3. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

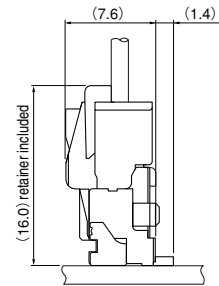
PA FAMILY SERIES /PA•PAF•PAL CONNECTOR

SMT type

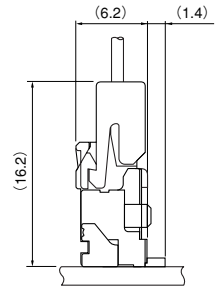
Top entry type



PA Receptacle
(Standard type)
+
PA Header

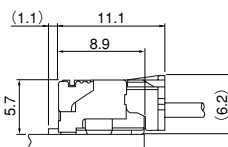
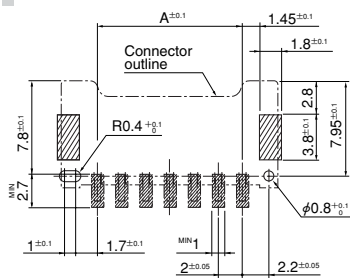


PA Receptacle
(Retainer mountable type)
+
PA Header

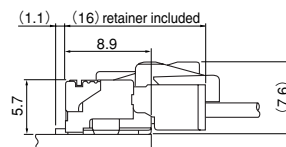


PAF Receptacle
+
PA Header

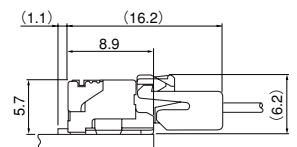
Side entry type



PA Receptacle
(Standard type)
+
PA side entry type header



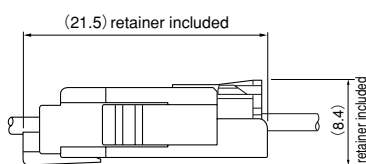
PA Receptacle
(Retainer mountable type)
+
PA side entry type header



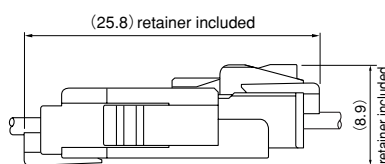
PAF Receptacle
+
PA side entry type header

Note: 1. The above figure is the figure viewed from the connector mounting side.
2. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
3. The dimensions above should serve as a guideline. Contact JST for details.

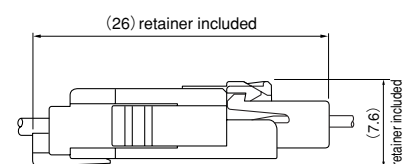
Wire-to-wire



PA Receptacle
(Standard type)
+
PAL Receptacle



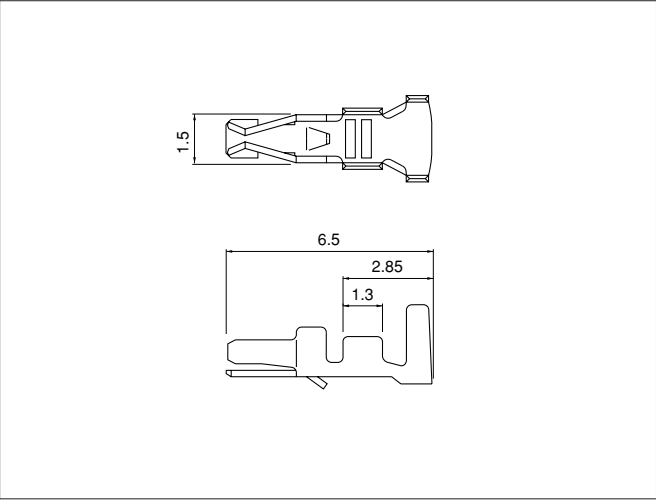
PA Receptacle
(Retainer mountable type)
+
PAL Receptacle



PAF Receptacle
+
PAL Receptacle

PA FAMILY SERIES /PA CONNECTOR (Crimp style Standard type)

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SPHD-001T-P0.5	0.13~0.33	26~22	1.0~1.5	8,000
SPHD-002T-P0.5	0.08~0.21	28~24	0.9~1.5	8,000

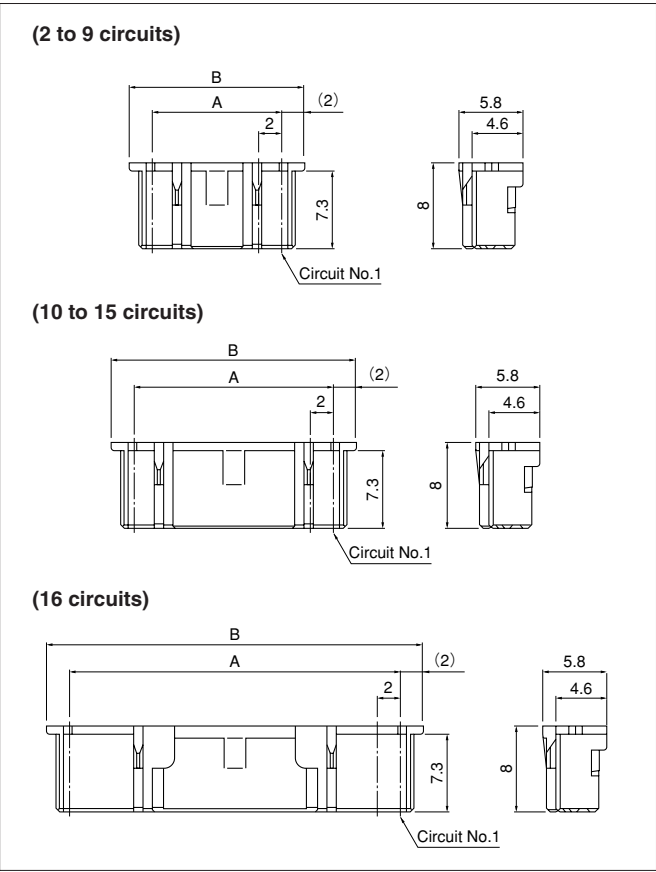
Material and Finish				
Phosphor bronze, tin-plated (reflow treatment)				

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPHD-002T-P0.5	AP-K2N	MKS-L-10	MK/SPHD-002-05	APLMK SPHD002-05
		*MKS-SC-10	SC/SPHD-002-05	APLSC SPHD002-05
SPHD-001T-P0.5		MKS-L-10	MK/SPHD-001-05	APLMK SPHD001-05
		*MKS-SC-10	SC/SPHD-001-05	APLSC SPHD001-05

Note: *Strip-crimp applicator

Housing



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	PAP-02V-S	2.0	6.0	1,000
3	PAP-03V-S	4.0	8.0	1,000
4	PAP-04V-S	6.0	10.0	1,000
5	PAP-05V-S	8.0	12.0	1,000
6	PAP-06V-S	10.0	14.0	1,000
7	PAP-07V-S	12.0	16.0	1,000
8	PAP-08V-S	14.0	18.0	1,000
9	PAP-09V-S	16.0	20.0	1,000
10	PAP-10V-S	18.0	22.0	1,000
11	PAP-11V-S	20.0	24.0	1,000
12	PAP-12V-S	22.0	26.0	1,000
13	PAP-13V-S	24.0	28.0	1,000
14	PAP-14V-S	26.0	30.0	1,000
15	PAP-15V-S	28.0	32.0	1,000
16	PAP-16V-S	30.0	34.0	1,000

Material				
PA 66, UL94V-0, natural (white)				

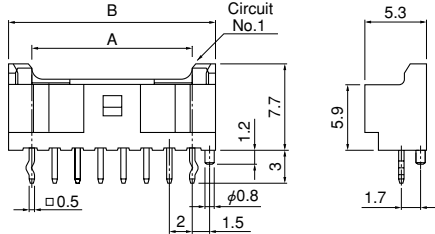
RoHS compliance

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

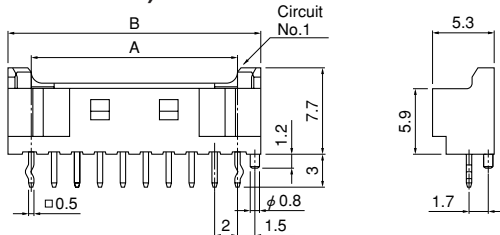
ex. **PAP-02V-S**
S...natural (white)
K...black R...red E...blue M...green O...orange N...brown
P...purple PK...pink Y...yellow L...lemon yellow FY...vivid yellow
LE...light blue H...gray TR...tomato red

Through-hole type shrouded header

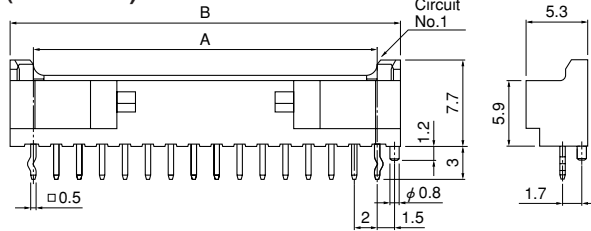
Top entry type (2 to 9 circuits)



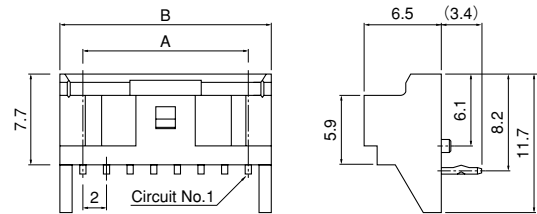
(10 to 15 circuits)



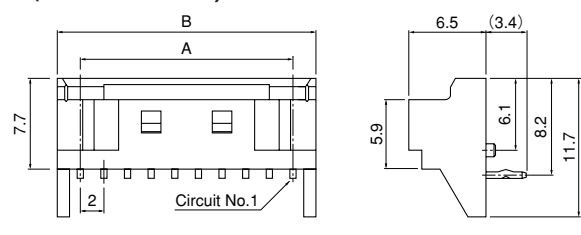
(16 circuits)



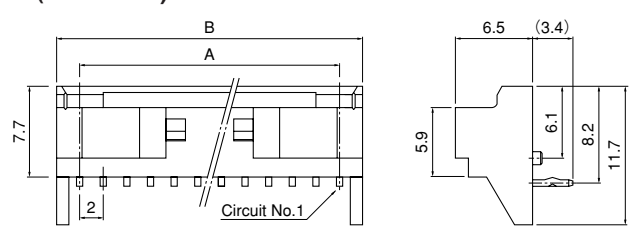
Side entry type (2 to 9 circuits)



(10 to 15 circuits)



(16 circuits)



Top entry type

Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Without a boss	With a boss	A	B	
2 (Note1)	B02B-PAFYK-A	B02B-PAFYK-1A	2.0	6.0	1,000
2	B02B-PASK	B02B-PASK-1	2.0	6.0	1,000
3	B03B-PASK	B03B-PASK-1	4.0	8.0	1,000
4	B04B-PASK	B04B-PASK-1	6.0	10.0	1,000
5	B05B-PASK	B05B-PASK-1	8.0	12.0	500
6	B06B-PASK	B06B-PASK-1	10.0	14.0	500
7	B07B-PASK	B07B-PASK-1	12.0	16.0	500
8	B08B-PASK	B08B-PASK-1	14.0	18.0	500
9	B09B-PASK	B09B-PASK-1	16.0	20.0	500
10	B10B-PASK	B10B-PASK-1	18.0	22.0	500
11	B11B-PASK	B11B-PASK-1	20.0	24.0	250
12	B12B-PASK	B12B-PASK-1	22.0	26.0	250
13	B13B-PASK	B13B-PASK-1	24.0	28.0	250
14	B14B-PASK	B14B-PASK-1	26.0	30.0	250
15	B15B-PASK	B15B-PASK-1	28.0	32.0	250
16	B16B-PASK	B16B-PASK-1	30.0	34.0	250

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
 Wafer: Glass-filled PBT, UL94V-0, natural (white)
 (Note1) PA 66, UL94V-0, vivid yellow

RoHS compliance This product displays (LF)(SN) on a label.

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
 For availability, delivery and minimum order quantity, contact JST.

ex. **B02B-PASK**

S...natural (white)
 K...black R...red E...blue M...green O...orange N...brown
 P...purple PK...pink Y...yellow L...lemon yellow FY...vivid yellow
 LE...light blue H...gray TR...tomato red

Side entry type

Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	S02B-PASK-2	2.0	6.0	1,000
3	S03B-PASK-2	4.0	8.0	1,000
4	S04B-PASK-2	6.0	10.0	500
5	S05B-PASK-2	8.0	12.0	500
6	S06B-PASK-2	10.0	14.0	500
7	S07B-PASK-2	12.0	16.0	250
8	S08B-PASK-2	14.0	18.0	250
9	S09B-PASK-2	16.0	20.0	250
10	S10B-PASK-2	18.0	22.0	250
11	S11B-PASK-2	20.0	24.0	250
12	S12B-PASK-2	22.0	26.0	250
13	S13B-PASK-2	24.0	28.0	200
14	S14B-PASK-2	26.0	30.0	200
15	S15B-PASK-2	28.0	32.0	200
16	S16B-PASK-2	30.0	34.0	200

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
 Wafer: Glass-filled PBT, UL94V-0, natural (white)

RoHS compliance This product displays (LF)(SN) on a label.

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
 For availability, delivery and minimum order quantity, contact JST.

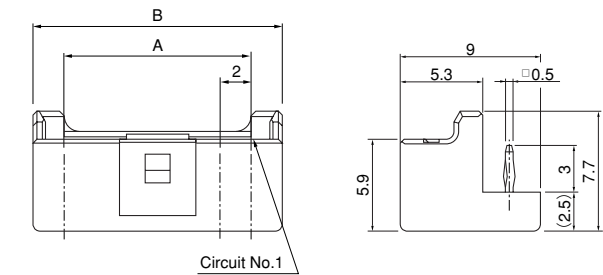
ex. **S03B-PASK-2**

S...natural (white)
 K...black R...red E...blue M...green O...orange N...brown
 P...purple PK...pink Y...yellow L...lemon yellow LE...light blue
 H...gray TR...tomato red

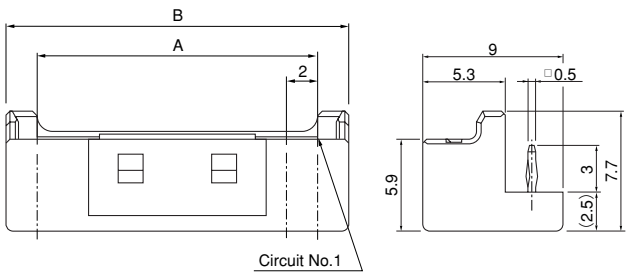
Through-hole type shrouded header

Bottom type

(5, 8 circuits)



(11, 12 circuits)



Circuits	Model No.	Dimensions(mm)				Q'ty / bag
		A	B	C	D	
5	BE05B-PASK	8.0	12.0	12.4	5.5	300
8	BE08B-PASK	14.0	18.0	18.4	5.5	200
11	BE11B-PASK	20.0	24.0	24.4	12.0	150
12	BE12B-PASK	22.0	26.0	26.4	12.0	150

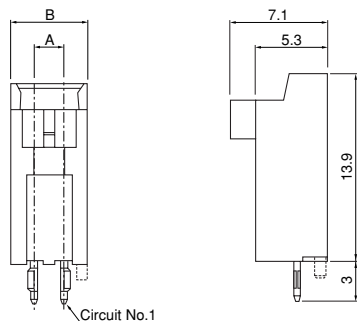
Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PBT, UL94V-0, natural

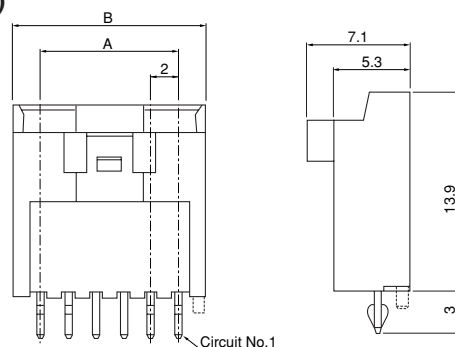
RoHS compliance This product displays (LF)(SN) on a label.
Note: C and D dimensions; Refer to the PCB layout bottom type (P3).

Shrouded header <High box type>

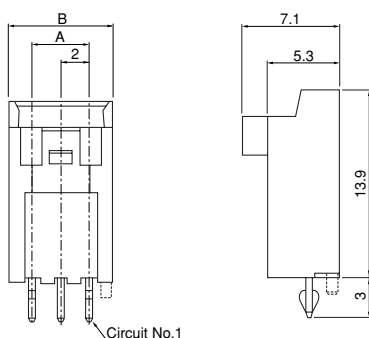
(2 circuits)



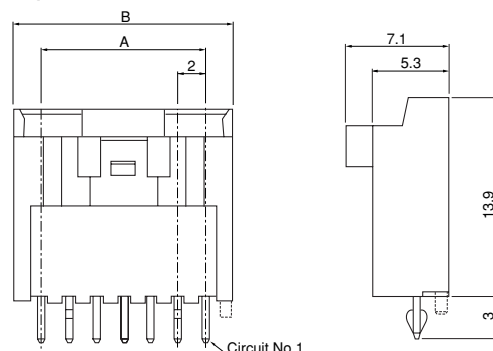
(5, 6 circuits)



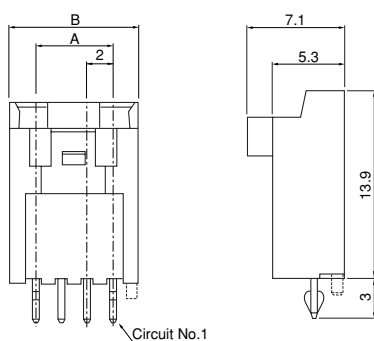
(3 circuits)



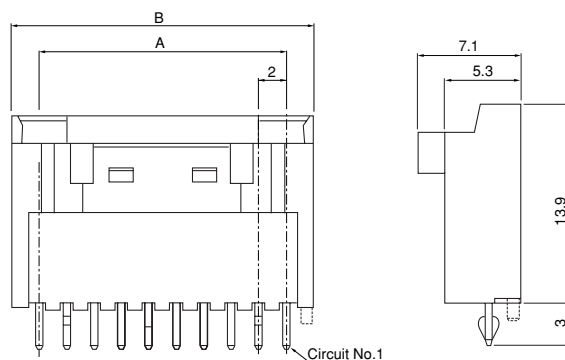
(7 to 9 circuits)



(4 circuits)



(10 to 12, 15 circuits)



Circuits	Model No.		Dimensions(mm)		Q'ty / box
	Without a boss	With a boss	A	B	
2	BH02B-PASK	BH02B-PASK-1	2.0	6.0	900
3	BH03B-PASK	BH03B-PASK-1	4.0	8.0	675
4	BH04B-PASK	BH04B-PASK-1	6.0	10.0	525
5	BH05B-PASK	BH05B-PASK-1	8.0	12.0	450
6	BH06B-PASK	BH06B-PASK-1	10.0	14.0	375
7	BH07B-PASK	BH07B-PASK-1	12.0	16.0	325
8	BH08B-PASK	BH08B-PASK-1	14.0	18.0	300
9	BH09B-PASK	BH09B-PASK-1	16.0	20.0	250
10	BH10B-PASK	BH10B-PASK-1	18.0	22.0	225
11	BH11B-PASK	BH11B-PASK-1	20.0	24.0	225
12	BH12B-PASK	BH12B-PASK-1	22.0	26.0	200
15	BH15B-PASK	BH15B-PASK-1	28.0	32.0	150

Material and Finish

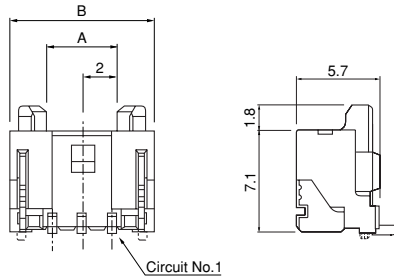
Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PBT, UL94V-0, natural (white)

RoHS compliance This product displays (LF)(SN) on a label.

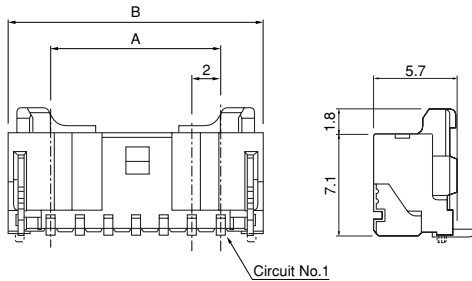
SMT type shrouded header

Top entry type

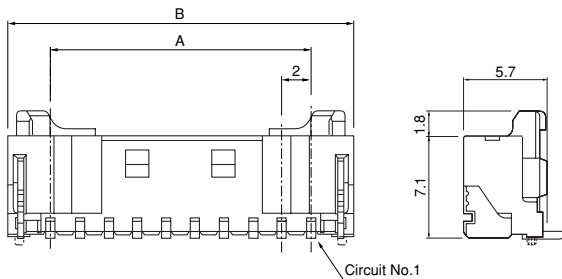
(2 to 3 circuits)



(4 to 9 circuits)

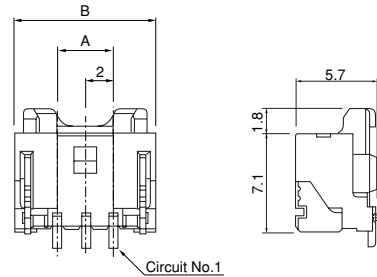


(10 to 13, 15 circuits)

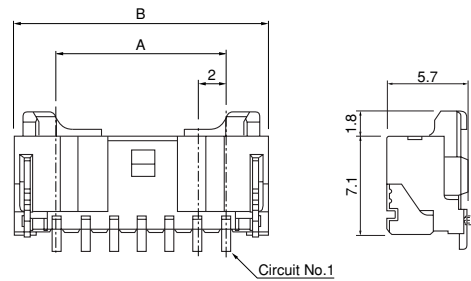


Side entry type

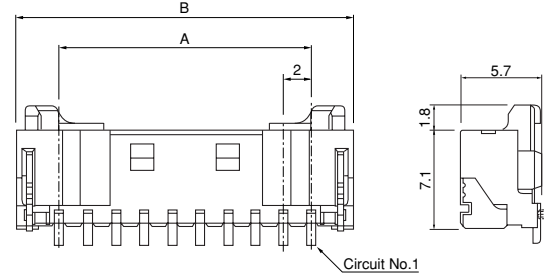
(2 to 3 circuits)



(4 to 9 circuits)



(10 to 13, 15 circuits)



Top entry type

Circuits	Model No.		Dimensions(mm)		Q'ty / reel
	Without a boss	With a boss	A	B	
2	BM02B-PASS-(*)	BM02B-PASS-1-(*)	2.0	8.0	500
3	BM03B-PASS-(*)	BM03B-PASS-1-(*)	4.0	10.0	500
4	BM04B-PASS-(*)	BM04B-PASS-1-(*)	6.0	12.0	500
5	BM05B-PASS-(*)	BM05B-PASS-1-(*)	8.0	14.0	500
6	BM06B-PASS-(*)	BM06B-PASS-1-(*)	10.0	16.0	500
7	BM07B-PASS-(*)	BM07B-PASS-1-(*)	12.0	18.0	500
8	BM08B-PASS-(*)	BM08B-PASS-1-(*)	14.0	20.0	500
9	BM09B-PASS-(*)	BM09B-PASS-1-(*)	16.0	22.0	500
10	BM10B-PASS-(*)	BM10B-PASS-1-(*)	18.0	24.0	500
11	BM11B-PASS-(*)	BM11B-PASS-1-(*)	20.0	26.0	500
12	BM12B-PASS-(*)	BM12B-PASS-1-(*)	22.0	28.0	500
13	BM13B-PASS-(*)	BM13B-PASS-1-(*)	24.0	30.0	500
15	BM15B-PASS-(*)	BM15B-PASS-1-(*)	28.0	34.0	500

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
 Wafer: PA, UL94V-0, natural (ivory)
 Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Note: (*): TF...taping product

TFT...taping product with suction tape.

Side entry type

Circuits	Model No.		Dimensions(mm)		Q'ty / reel
	Without a boss	With a boss	A	B	
2	SM02B-PASS-(*)	SM02B-PASS-1-(*)	2.0	8.0	1,000
3	SM03B-PASS-(*)	SM03B-PASS-1-(*)	4.0	10.0	1,000
4	SM04B-PASS-(*)	SM04B-PASS-1-(*)	6.0	12.0	1,000
5	SM05B-PASS-(*)	SM05B-PASS-1-(*)	8.0	14.0	1,000
6	SM06B-PASS-(*)	SM06B-PASS-1-(*)	10.0	16.0	1,000
7	SM07B-PASS-(*)	SM07B-PASS-1-(*)	12.0	18.0	1,000
8	SM08B-PASS-(*)	SM08B-PASS-1-(*)	14.0	20.0	1,000
9	SM09B-PASS-(*)	SM09B-PASS-1-(*)	16.0	22.0	1,000
10	SM10B-PASS-(*)	SM10B-PASS-1-(*)	18.0	24.0	1,000
11	SM11B-PASS-(*)	SM11B-PASS-1-(*)	20.0	26.0	1,000
12	SM12B-PASS-(*)	SM12B-PASS-1-(*)	22.0	28.0	1,000
13	SM13B-PASS-(*)	SM13B-PASS-1-(*)	24.0	30.0	1,000
15	SM15B-PASS-(*)	SM15B-PASS-1-(*)	28.0	34.0	1,000

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
 Wafer: PA, UL94V-0, natural (ivory)
 Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

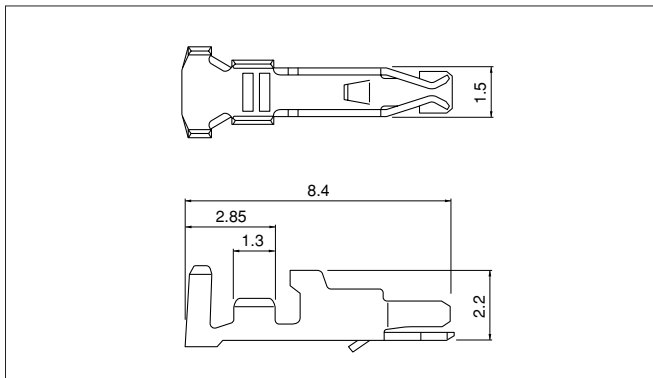
RoHS compliance This product displays (LF)(SN) on a label.

Note: (*): TB...taping product

TBT...taping product with suction tape.

PA FAMILY SERIES /PA CONNECTOR (Crimp style Retainer mountable type)

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SPA-001T-P0.5	0.13~0.33	26~22	0.9~1.5	10,000

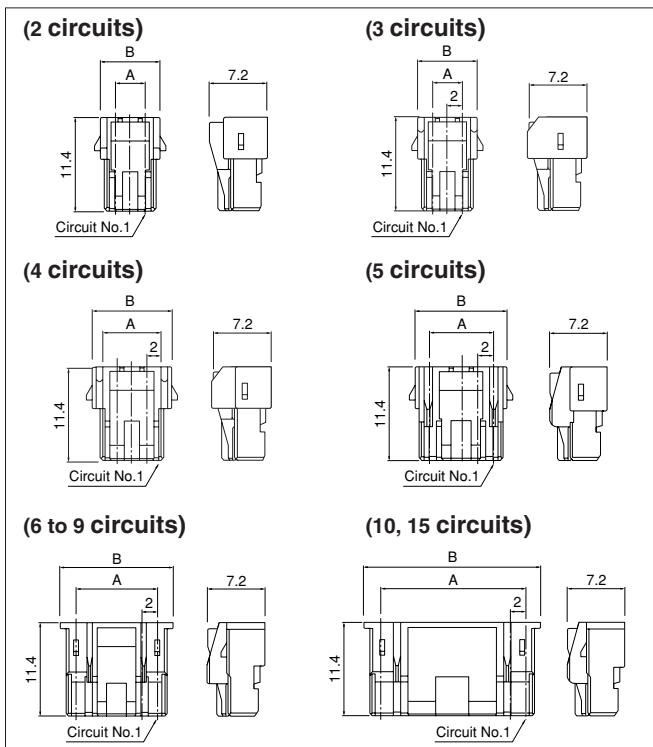
Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPA-001T-P0.5	AP-K2N	MKS-L	MK/SPA-001-05	APLMK SPA001-05
		—	—	—

Housing



Circuits	Model No.	Dimensions(mm)		Q'ty / bag
		A	B	
2	PARP-02V	2.0	5.4	1,000
3	PARP-03V	4.0	7.4	1,000
4	PARP-04V	6.0	9.4	1,000
5	PARP-05V	8.0	11.4	1,000
6	PARP-06V	10.0	14.0	1,000
7	PARP-07V	12.0	16.0	1,000
8	PARP-08V	14.0	18.0	1,000
9	PARP-09V	16.0	20.0	1,000
10	PARP-10V	18.0	22.0	1,000
15	PARP-15V	28.0	32.0	500

Material

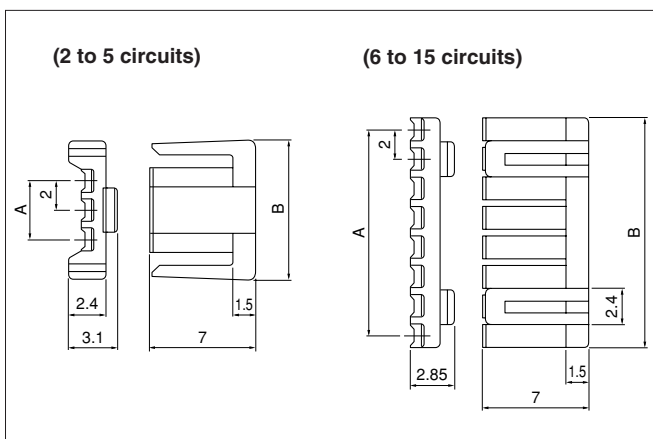
PA 66, UL94V-0, natural (white)

RoHS compliance

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **PARP-02V-oo**
(blank)...natural (white)
R...red E...blue Y...yellow M...green

Retainer



Circuits	Model No.	Dimensions(mm)		Q'ty / bag
		A	B	
2	PMS-02V-S	2.0	7.3	1,000
3	PMS-03V-S	4.0	9.3	1,000
4	PMS-04V-S	6.0	11.3	1,000
5	PMS-05V-S	8.0	13.3	1,000
6	PMS-06V-S	10.0	11.55	1,000
7	PMS-07V-S	12.0	13.55	1,000
8	PMS-08V-S	14.0	15.55	1,000
9	PMS-09V-S	16.0	17.55	1,000
10	PMS-10V-S	18.0	19.55	1,000
15	PMS-15V-S	28.0	29.55	1,000

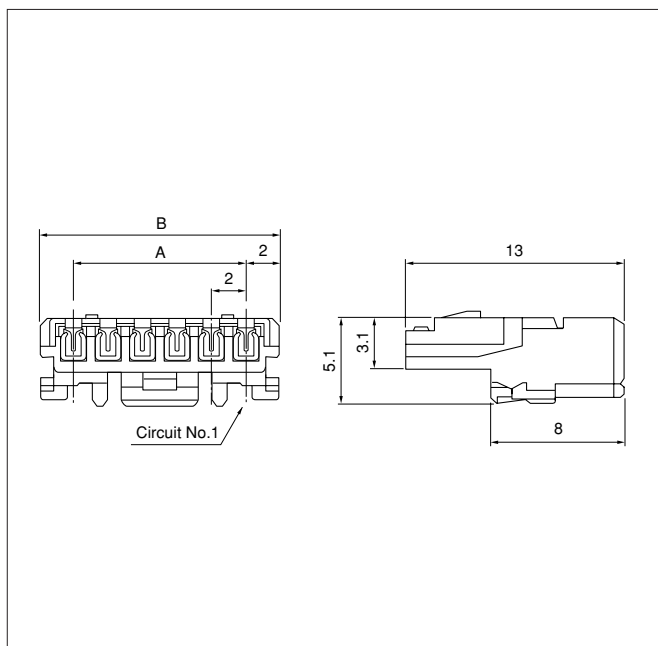
Material

Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance

PA FAMILY SERIES /PAF CONNECTOR (Insulation displacement type)

Receptacle



Circuits	Model No.	Dimensions(mm)		Q'ty / box
		A	B	
2	02PAF-6S	2.0	6.0	1,000
3	03PAF-6S	4.0	8.0	1,000
4	04PAF-6S	6.0	10.0	500
5	05PAF-6S	8.0	12.0	500
6	06PAF-6S	10.0	14.0	500
7	07PAF-6S	12.0	16.0	500
8	08PAF-6S	14.0	18.0	250
9	09PAF-6S	16.0	20.0	250
10	10PAF-6S	18.0	22.0	250
11	11PAF-6S	20.0	24.0	250
12	12PAF-6S	22.0	26.0	250
13	13PAF-6S	24.0	28.0	250
14	14PAF-6S	26.0	30.0	250
15	15PAF-6S	28.0	32.0	250
*16	16PAF-6S	30.0	34.0	250

Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)

Housing: PA 66, UL94V-0, natural (white)

RoHS compliance

Note: *Marked product is not UL/CSA approved.

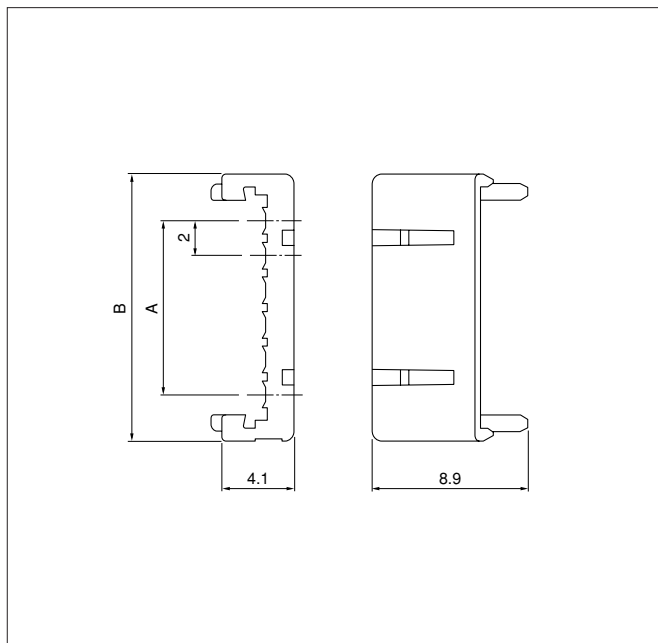
<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **02PAF-6S**

S...natural (white)

R...red E...blue M...green Y...yellow

Retainer



Circuits	Model No.	Dimensions(mm)		Q'ty / bag
		A	B	
2	PAFS-02V-S	2.0	7.4	1,000
3	PAFS-03V-S	4.0	9.4	1,000
4	PAFS-04V-S	6.0	11.4	1,000
5	PAFS-05V-S	8.0	13.4	1,000
6	PAFS-06V-S	10.0	15.4	1,000
7	PAFS-07V-S	12.0	17.4	1,000
8	PAFS-08V-S	14.0	19.4	1,000
* 9	PAFS-09V-S	16.0	21.4	1,000
*10	PAFS-10V-S	18.0	23.4	1,000
*11	PAFS-11V-S	20.0	25.4	1,000
*12	PAFS-12V-S	22.0	27.4	1,000
*13	PAFS-13V-S	24.0	29.4	1,000
*14	PAFS-14V-S	26.0	31.4	1,000
*15	PAFS-15V-S	28.0	33.4	1,000

Material

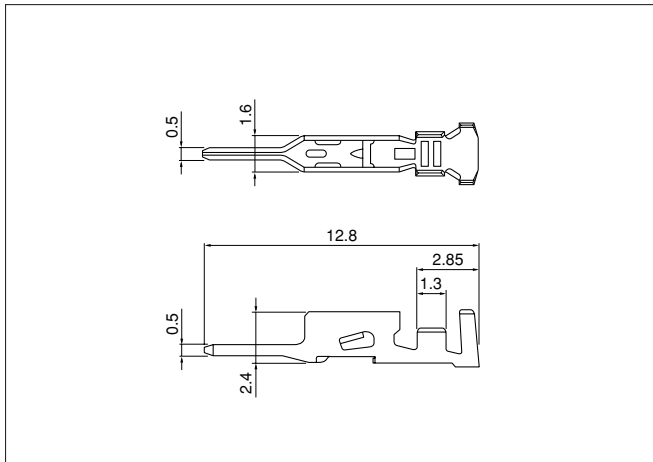
Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance

Note: *Marked products are not UL/CSA approved.

PA FAMILY SERIES /PAL CONNECTOR (Wire-to-wire type)

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SPAL-001T-P0.5	0.13~0.33	26~22	1.0~1.5	10,000
SPAL-002T-P0.5	0.08~0.21	28~24	0.9~1.5	10,000

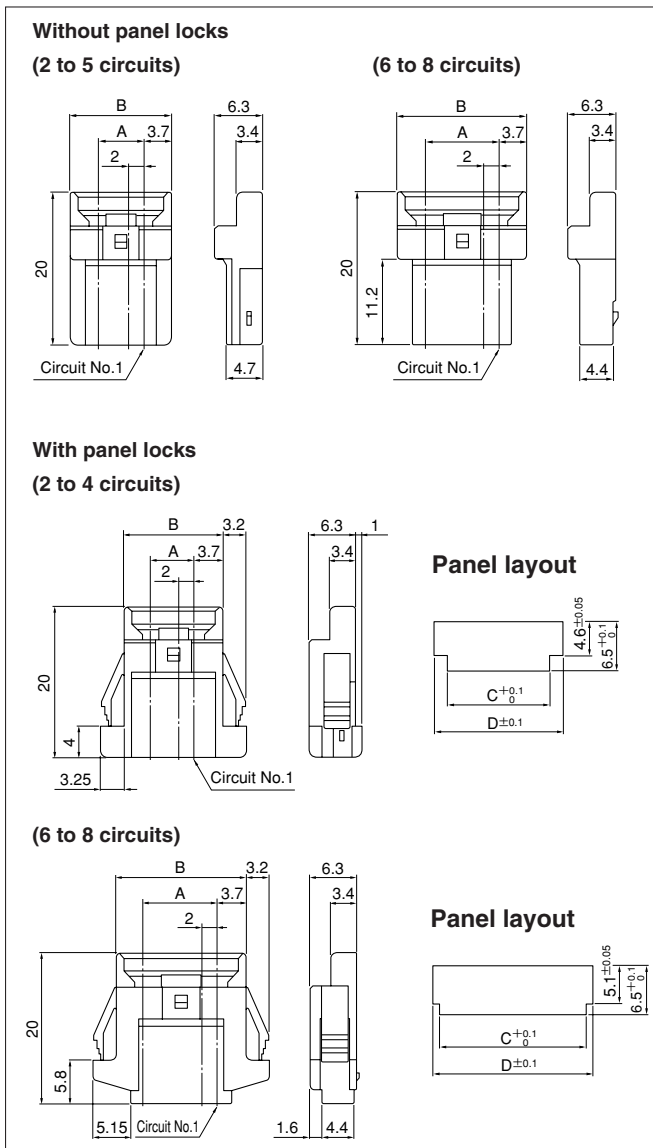
Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPAL-001T-P0.5	AP-K2N	MKS-L	MK/SPAL-001-05	APLMK SPAL001-05
		—	—	—
SPAL-002T-P0.5	AP-K2N	MKS-L	MK/SPAL-002-05	APLMK SPAL002-05
		—	—	—

Housing



Circuits	Model No.	Dimensions(mm)		Q'ty / bag
		A	B	
2	PALR-02VF	2.0	9.4	1,000
3	PALR-03VF	4.0	11.4	1,000
4	PALR-04VF	6.0	13.4	1,000
5	PALR-05VF	8.0	15.4	1,000
6	PALR-06VF	10.0	17.4	1,000
7	PALR-07VF	12.0	19.4	1,000
8	PALR-08VF	14.0	21.4	1,000

Material

PA 66, UL94V-0, natural (white)

RoHS compliance

Circuits	Model No.	Dimensions(mm)				Q'ty / bag
		A	B	C	D	
2	PALR-02V	2.0	9.4	9.8	13.4	1,000
3	PALR-03V	4.0	11.4	11.8	15.4	1,000
4	PALR-04V	6.0	13.4	13.8	17.4	1,000
6	PALR-06V	10.0	17.4	19.8	21.4	1,000
7	PALR-07V	12.0	19.4	21.8	23.4	1,000
8	PALR-08V	14.0	21.4	23.8	25.4	1,000

Material

PA 66, UL94V-0, natural (white)

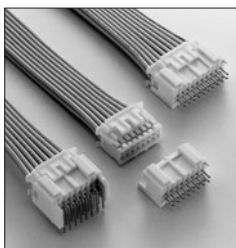
RoHS compliance

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **PALR-02V(F)-oo**
(blank)...natural (white)
R...red E...blue M...green Y...yellow

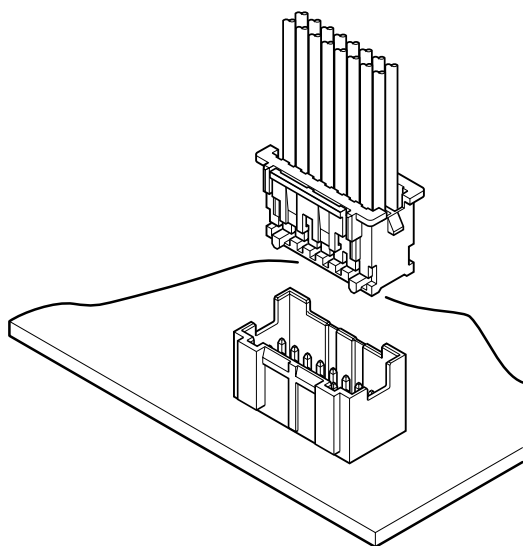
Retainer

Retainers are interchangeable with those of the PA crimp style retainer mountable type.



PAD CONNECTOR

2.0mm pitch/Disconnectable Crimp style connectors



Dual-row construction allows high density mounting.

- **Secure locking device**
- **Reliable contacts**
- **Insertion guide mechanism**
- **Polarizing boss**

Specifications

- Current rating: 3 A AC, DC (AWG #22)
- Voltage rating: 250 V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 10 mΩ max.
After environmental tests/ 20 mΩ max.
- Insulation resistance: 1,000 MΩ min.
- Withstanding voltage: 800 VAC/minute
- Applicable wire: AWG #28 to #22
- Applicable PC board thickness: 1.6 mm

- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Compliant with RoHS.

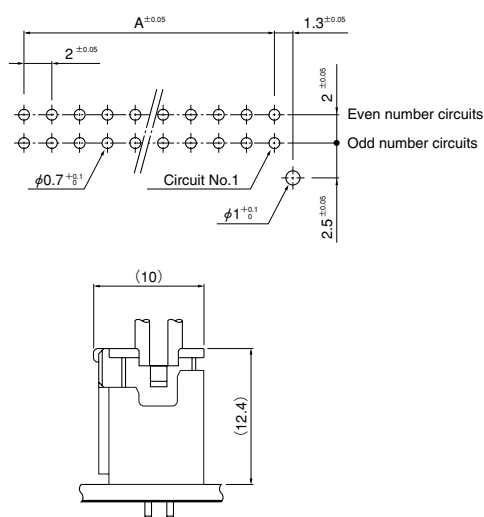
Standards

Recognized E60389

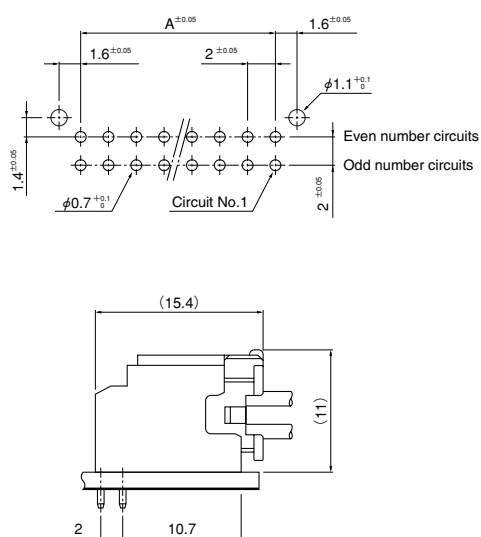
Certified LR20812

R50053749

Top entry type



Side entry type



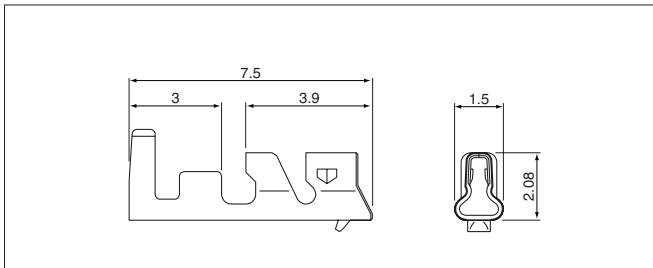
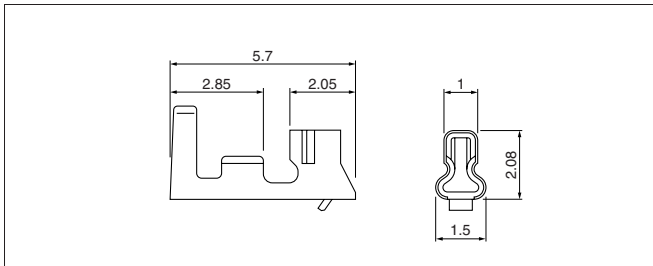
Note: 1. The above figure is the figure viewed from the connector mounting side.

2. Tolerances are non-cumulative: ± 0.05 mm for all centers.

3. Hole dimensions differ according to the type of PC board and piercing method. If PC boards made of hard material are used, the hole dimensions should be larger. The dimensions above should serve as a guideline. Contact JST for details.

PAD CONNECTOR

Contact



Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPH-001T-P0.5L	AP-K2N	MKS-L	MK/SPH-001-05L	APLMK SPH001-05L
		—	—	—
SPH-002T-P0.5L	AP-K2N	MKS-L	MK/SPH-002-05L	APLMK SPH002-05L
		*MKS-SC	SC/SPH-002-05L	APLSC SPH002-05L

Note: *Strip-crimp applicator

Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SPH-001T-P0.5L	0.13~0.33	26~22	1.0~1.5	8,000
SPH-002T-P0.5L	0.08~0.22	28~24	0.8~1.5	

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SPND-001T-C0.5	0.13~0.33	26~22	1.0~1.5	8,000
SPND-002T-C0.5	0.08~0.22	28~24	0.8~1.5	

Material and Finish

Copper alloy, tin-plated (reflow treatment)

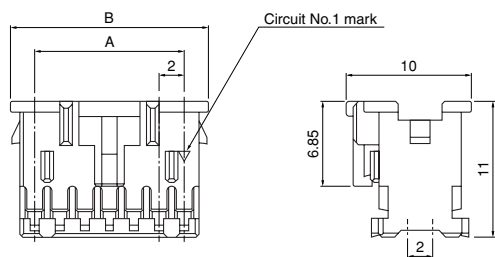
RoHS compliance

Note: SPND-()T-C0.5 is low insertion/withdrawal force type contact, in order to improve the work of insertion/withdrawal.

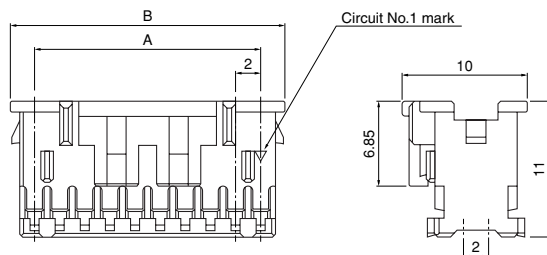
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPND-001T-C0.5	AP-K2N	MKS-L	MK/SPND-001-05	APLMK SPND001-05
		—	—	—
SPND-002T-C0.5	AP-K2N	MKS-L	MK/SPAD/ND-002-05	APLMK SPAD/ND002-05
		—	—	—

Housing

<14 circuits or less>



<16 circuits or more>



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
10	PADP-10V-1-S	8.0	12.0	1,000
12	PADP-12V-1-S	10.0	14.0	1,000
14	PADP-14V-1-S	12.0	16.0	1,000
16	PADP-16V-1-S	14.0	18.0	1,000
20	PADP-20V-1-S	18.0	22.0	1,000
22	PADP-22V-1-S	20.0	24.0	1,000
24	PADP-24V-1-S	22.0	26.0	1,000
*40	PADP-40V-1-S	38.0	42.0	500

Material

PA 66, UL94V-0, natural (white)

RoHS compliance

Note: *Marked product is not TÜV approved.

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. PADP-16V-1-S

S...natural (white)

K...black R...red Y...yellow E...blue M...green P...purple

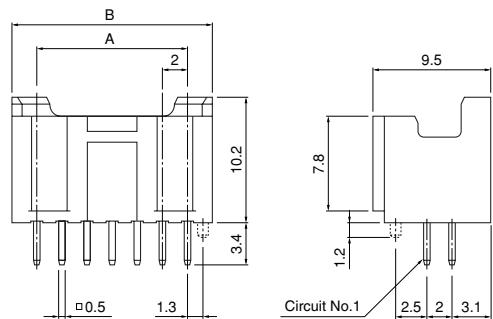
L...lemon yellow

PAD CONNECTOR

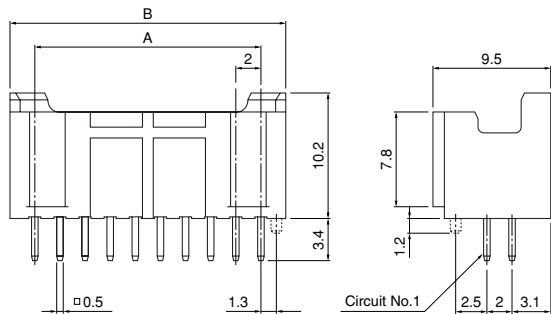
Shrouded header

Top entry type

<14 circuits or less>

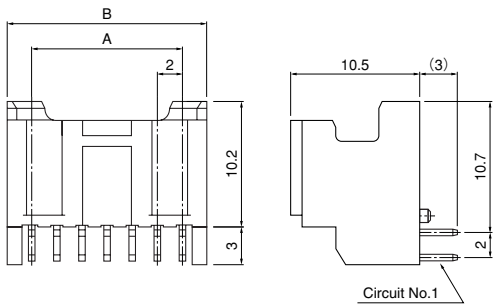


<16 circuits or more>

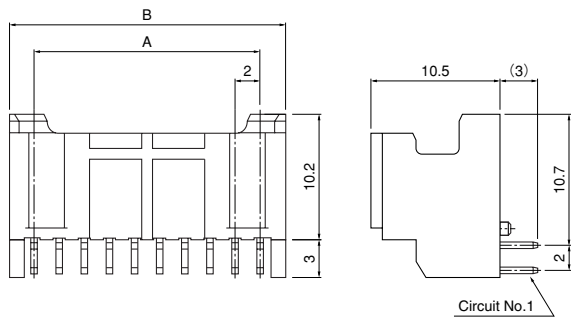


Side entry type

<14 circuits or less>



<16 circuits or more>



Circuits	Model No.			Dimensions (mm)		Q'ty / box	
	Top entry type		Side entry type	A	B	Top entry type	Side entry type
	With a boss	Without a boss					
10	B10B-PADSS-1F	B10B-PADSS-F	S10B-PADSS-1	8.0	12.0	400	504
12	B12B-PADSS-1F	B12B-PADSS-F	S12B-PADSS-1	10.0	14.0	300	420
14	B14B-PADSS-1F	B14B-PADSS-F	S14B-PADSS-1	12.0	16.0	300	364
16	B16B-PADSS-1F	B16B-PADSS-F	S16B-PADSS-1	14.0	18.0	200	336
20	B20B-PADSS-1F	B20B-PADSS-F	S20B-PADSS-1	18.0	22.0	150	280
22	B22B-PADSS-1F	B22B-PADSS-F	—	20.0	24.0	150	—
24	B24B-PADSS-1F	B24B-PADSS-F	S24B-PADSS-1	22.0	26.0	150	224
*40	B40B-PADSS-1F	—	—	38.0	42.0	100	—

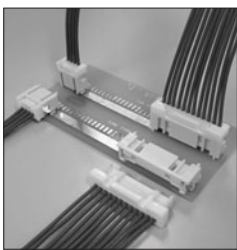
Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PBT, UL94V-0, (natural) [side entry type]
Glass-filled PA 66, UL94V-0, (natural) [top entry type]

RoHS compliance This product displays (LF)(SN) on a label.
Note: *Marked product is not TÜV approved.

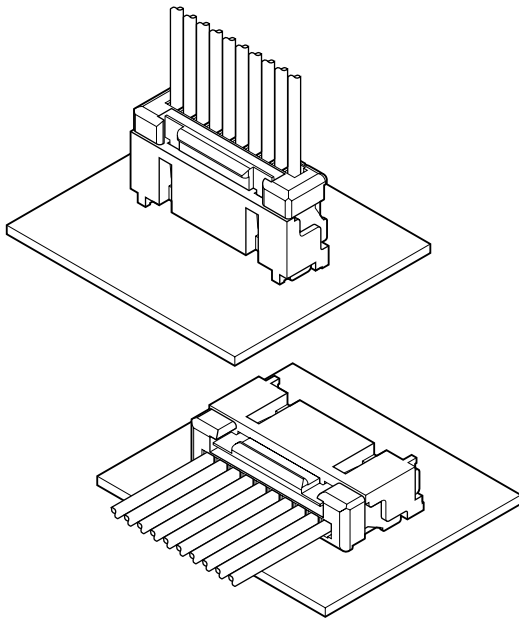
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **B16B-PADSS(-1F)**
S...natural (white)
K...black R...red Y...yellow E...blue M...green P...purple
L...lemon yellow



PBV CONNECTOR

2.0mm pitch/Disconnectable Crimp style connectors



This PBV connector, which is mainly used for connecting PCB of flat television, is a crimping type connector and is designed to have a secure locking structure and a sucking area.

- Secure locking structure
- Sucking area on header
- Prevention of deformation of contact

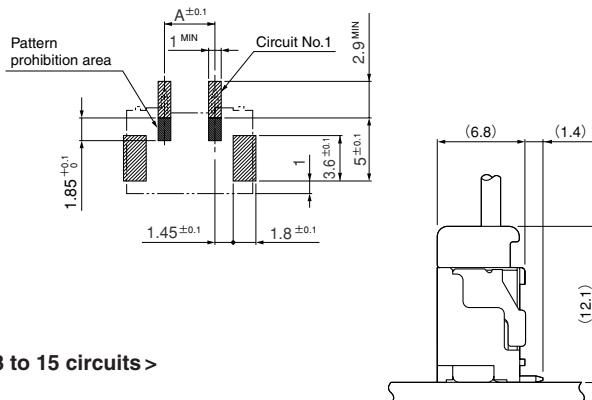
Specifications

- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 100V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 10mΩ max.
After environmental testing/ 20mΩ max.
- Insulation resistance: Initial/ 1,000MΩ min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: Conductor size/ AWG#28 to #22
insulation O.D./ 0.9 to 1.5mm

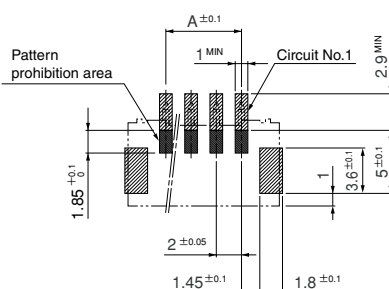
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Top entry type

< 2 circuits >

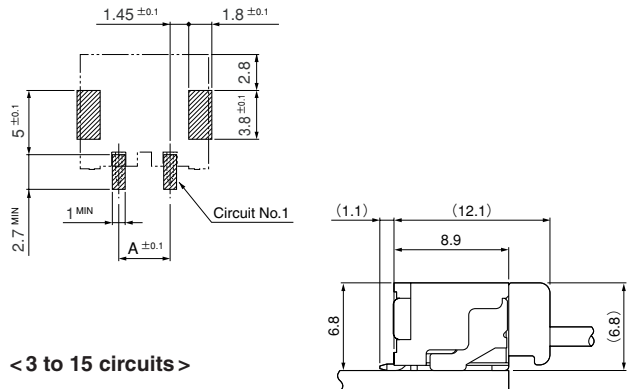


< 3 to 15 circuits >

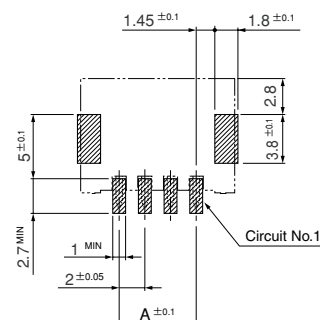


Side entry type

< 2 circuits >



< 3 to 15 circuits >

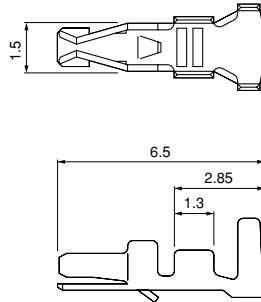


Note: 1. The above figure is the figure viewed from the connector mounting side.

2. Tolerances are non-cumulative: ±0.03mm for all centers. The dimensions above should serve as a guideline. Contact JST for details.

PBV CONNECTOR

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SPHD-001T-P0.5	0.13~0.33	26~22	1.0~1.5	8,000
SPHD-002T-P0.5	0.08~0.21	28~24	0.9~1.5	8,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

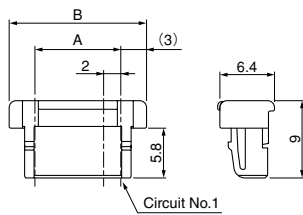
RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPHD-001T-P0.5	AP-K2N	MKS-L-10	MK/SPHD-001-05	APLMK SPHD001-05
		*MKS-SC-10	SC/SPHD-001-05	APLSC SPHD001-05
SPHD-002T-P0.5		MKS-L-10	MK/SPHD-002-05	APLMK SPHD002-05
		*MKS-SC-10	SC/SPHD-002-05	APLSC SPHD002-05

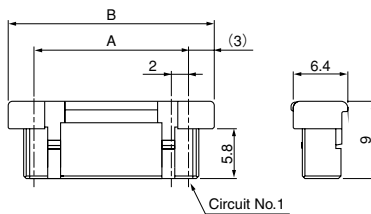
Note: *Strip-crimp applicator

Housing

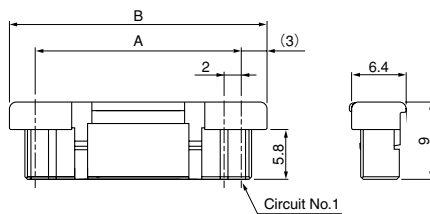
< 3 (2 circuits in common use) to 8 circuits >



< 9 to 12 circuits >



< 13 to 15 circuits >



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
*3	PBVP-03V-S	4.0	10.0	2,000
4	PBVP-04V-S	6.0	12.0	2,000
6	PBVP-06V-S	10.0	16.0	1,000
8	PBVP-08V-S	14.0	20.0	1,000
10	PBVP-10V-S	18.0	24.0	1,000
12	PBVP-12V-S	22.0	28.0	500
15	PBVP-15V-S	28.0	34.0	500

Material

PA 66, UL94V-0, natural (white)

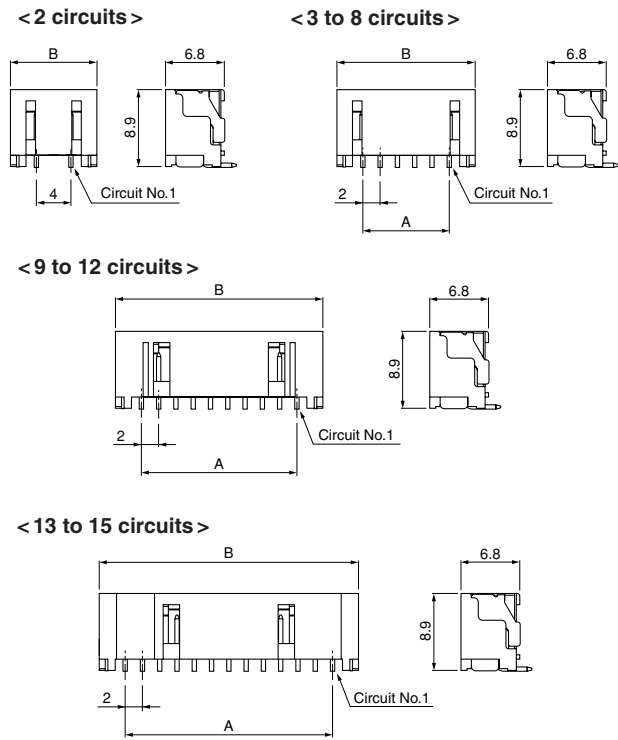
RoHS compliance

Note*: 2 circuits in common use.

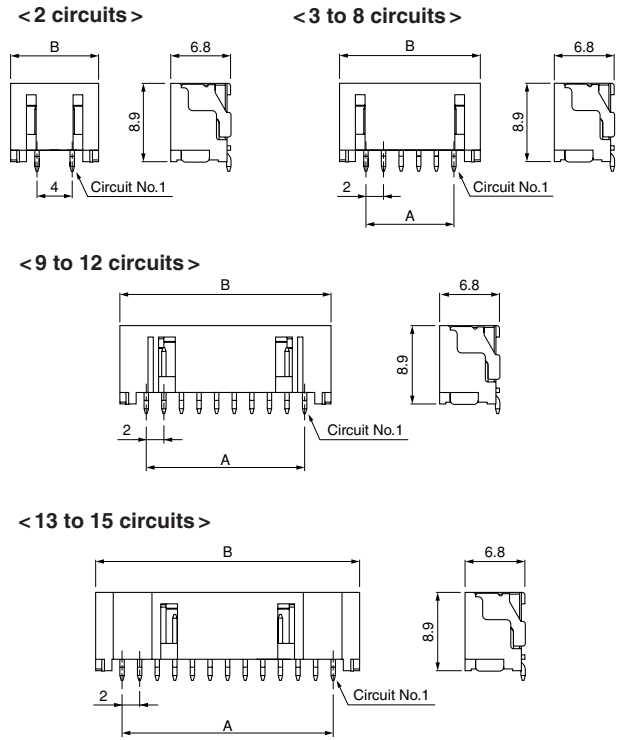
PBV CONNECTOR

Shrouded header

Top entry type



Side entry type

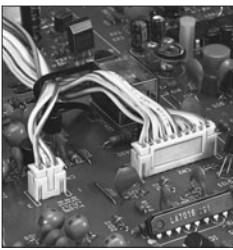


Circuits	Model No.		Dimensions (mm)		Q'ty / reel	
	Top entry type	Side entry type	A	B	Top type	Side type
*2	BM02(4.0)B-PBVSS-TF	SM02(4.0)B-PBVSS-TB	4.0	10.0	700	800
3	BM03B-PBVSS-TF	SM03B-PBVSS-TB	4.0	10.0	700	800
4	BM04B-PBVSS-TF	SM04B-PBVSS-TB	6.0	12.0	700	800
6	BM06B-PBVSS-TF	SM06B-PBVSS-TB	10.0	16.0	700	800
8	BM08B-PBVSS-TF	SM08B-PBVSS-TB	14.0	20.0	700	800
10	BM10B-PBVSS-TF	SM10B-PBVSS-TB	18.0	24.0	700	800
12	BM12B-PBVSS-TF	SM12B-PBVSS-TB	22.0	28.0	700	800
15	BM15B-PBVSS-TF	SM15B-PBVSS-TB	28.0	34.0	700	800

Material and Finish

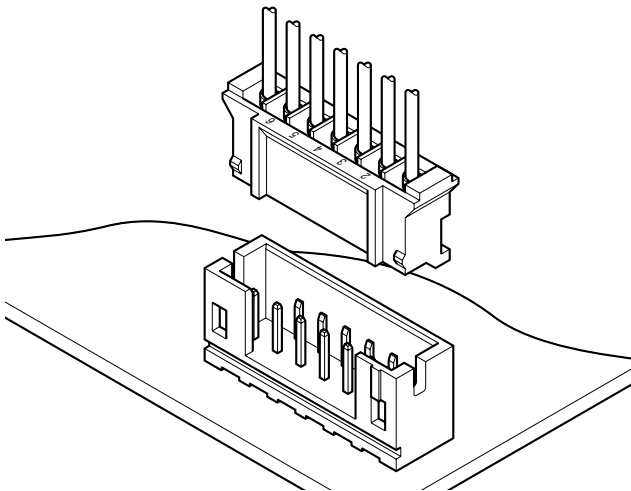
Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Polyamide resin, UL94V-0, natural (ivory)
Reinforcement: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.
Note: 1. This products listed above are supplied on embossed-tape.
2. *2 circuits product: Removing center pin from 3 circuits product



PH CONNECTOR

2.0mm pitch/Disconnectable Crimp style connectors



This is a thin, low-profile 2.0mm pitch connector 8.0mm in height after mounting and 4.5mm in width. It is designed to meet the demand for high-density connection of internal wires to printed circuit boards. It is compact, highly reliable and low in cost.

- **Reliable contact**
- **Fully shrouded header**
- **Printed circuit board retention mechanism**
- **Surface mount model (SMT)**

Specifications

- Current rating: 2A AC, DC (AWG #24)
 - Voltage rating: 100V AC, DC
 - Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
 - Contact resistance: Initial value/ 10m Ω max.
After environmental testing/ 20m Ω max.
 - Insulation resistance: 1,000M Ω min.
 - Withstanding voltage: 800V AC/ minute
 - Applicable wire: AWG #32 to #24
 - Applicable PC board thickness: 0.8 to 1.6mm
- * Compliant with RoHS.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

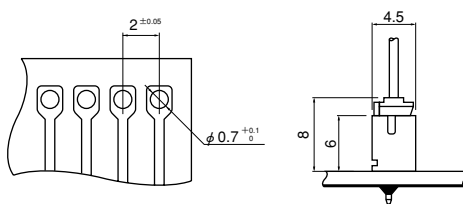
Recognized E60389

Certified LR20812

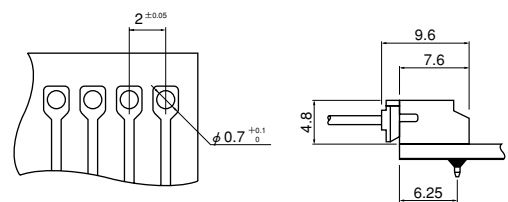
R75087

〈Through-hole type (viewed from soldering side)〉

Top entry type



Side entry type

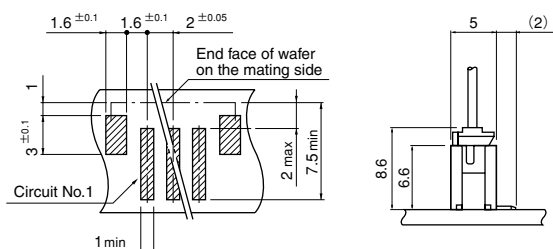


Note: 1. Tolerances are non-cumulative: ± 0.05 mm for all centers.

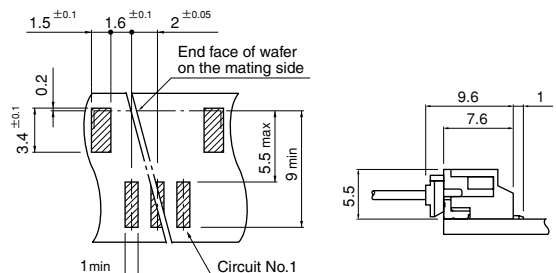
2. Hole dimensions differ according to the kind of PC board and piercing method. If PC boards made of hard material are used, the hole dimensions should be larger. The dimensions above should serve as a guideline. Contact JST for details.

〈SMT type (viewed from component side)〉

SM4 type Top entry type



SM4 type Side entry type

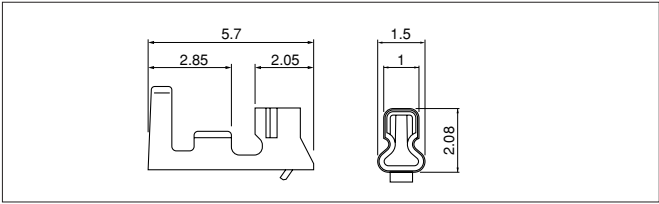


Note: 1. Tolerances are non-cumulative: ± 0.05 mm for all centers.

2. The dimensions above should serve as a guideline. Contact JST for details.

PH CONNECTOR

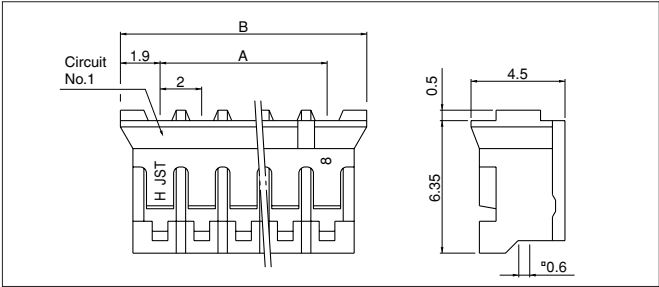
Contact



Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPH-002T-P0.5S	AP-K2N	MKS-L	MK/SPH-002-05S	APLMK SPH002-05S
		*MKS-SC	SC/SPH-002-05S	APLSC SPH002-05S
SPH-002T-P0.5L		MKS-L	MK/SPH-002-05L	APLMK SPH002-05L
		*MKS-SC	SC/SPH-002-05L	APLSC SPH002-05L
SPH-004T-P0.5S		MKS-L-10	MK/SPH-004-05S	APLMK SPH004-05S
		*MKS-SC-10	SC/SPH-004-05S	APLSC SPH004-05S

Note: *Strip-crimp applicator

Housing



<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **PHR-2-oo**
(blank)...natural (white)
BK...black R...red TR...tomato red BL...blue Y...yellow
L...lemon yellow M...green D...orange N...brown
P...purple PK...pink H...gray LE...light blue
FY...vivid yellow DPK...dark pink

Through-hole type shrouded header

Top entry type

(2 circuits)

Side entry type

Model No.	Applicable wire			Q'ty / reel
	mm ²	AWG #	Insulation O.D. (mm)	
SPH-002T-P0.5S	0.05 ~ 0.22	30~24	0.9~1.5	8,000
SPH-002T-P0.5L	0.08 ~ 0.22	28~24	0.8~1.5	
SPH-004T-P0.5S	0.032~0.08	32~28	0.5~0.9	10,000

Material and Finish	
Phosphor bronze, tin-plated (reflow treatment)	

RoHS compliance
Note:
1. Contact JST for gold-plated products.
2. SPH-002T-P0.5L is low-insertion force type contact, for easier insertion/ withdrawal, which would be less resistant to the vibration. The crimp height is different from the standard.
3. Contact JST for details.

Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	PHR-2	2.0	5.8	1,000
3	PHR-3	4.0	7.8	1,000
4	PHR-4	6.0	9.8	1,000
5	PHR-5	8.0	11.8	1,000
6	PHR-6	10.0	13.8	1,000
7	PHR-7	12.0	15.8	1,000
8	PHR-8	14.0	17.8	1,000
9	PHR-9	16.0	19.8	1,000
10	PHR-10	18.0	21.8	1,000
11	PHR-11	20.0	23.8	1,000
12	PHR-12	22.0	25.8	1,000
13	PHR-13	24.0	27.8	1,000
14	PHR-14	26.0	29.8	1,000
15	PHR-15	28.0	31.8	1,000
16	PHR-16	30.0	33.8	1,000

Material	
PA 66, UL94V-0, natural (white)	

RoHS compliance

Circuits	Model No.		Dimensions (mm)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
2	B2B-PH-K-S	S2B-PH-K-S	2.0	5.9	1,000	1,000
3	B3B-PH-K-S	S3B-PH-K-S	4.0	7.9	1,000	1,000
4	B4B-PH-K-S	S4B-PH-K-S	6.0	9.9	1,000	500
5	B5B-PH-K-S	S5B-PH-K-S	8.0	11.9	1,000	500
6	B6B-PH-K-S	S6B-PH-K-S	10.0	13.9	1,000	500
7	B7B-PH-K-S	S7B-PH-K-S	12.0	15.9	500	500
8	B8B-PH-K-S	S8B-PH-K-S	14.0	17.9	500	250
9	B9B-PH-K-S	S9B-PH-K-S	16.0	19.9	500	250
10	B10B-PH-K-S	S10B-PH-K-S	18.0	21.9	500	250
11	B11B-PH-K-S	S11B-PH-K-S	20.0	23.9	500	250
12	B12B-PH-K-S	S12B-PH-K-S	22.0	25.9	400	250
13	B13B-PH-K-S	S13B-PH-K-S	24.0	27.9	250	250
14	B14B-PH-K-S	S14B-PH-K-S	26.0	29.9	250	250
15	B15B-PH-K-S	S15B-PH-K-S	28.0	31.9	250	200
16	B16B-PH-K-S	S16B-PH-K-S	30.0	33.9	250	200

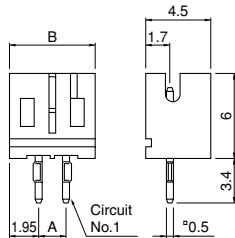
Material and Finish	
Post: Brass, copper-undercoated, tin-plated (reflow treatment) Wafer: PA 66, UL94V-0, natural (white)	

RoHS compliance This product displays (LF)(SN) on a label.
<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.
ex. **B2B-PH-K-oo**
S...natural (white)
K...black R...red TR...tomato red
E...blue Y...yellow L...lemon yellow M...green
O...orange N...brown P...purple PK...pink H...gray
LE...light blue FY...vivid yellow (blank)...ivory

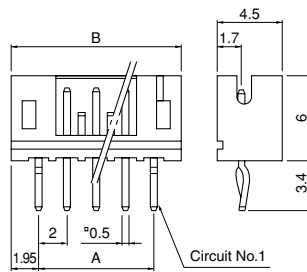
Through-hole type shrouded header <Low insertion force type>

Top entry type

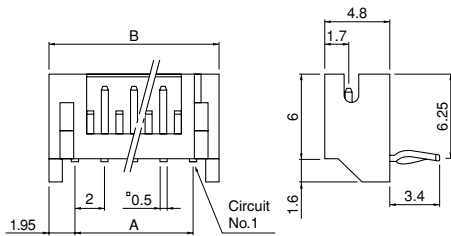
(2 circuits)



(3 circuits or more)



Side entry type



Circuits	Model No.		Dimensions (mm)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
2	B2B-PH-KL	S2B-PH-KL	2.0	5.9	1,000	1,000
3	B3B-PH-KL	S3B-PH-KL	4.0	7.9	1,000	1,000
4	B4B-PH-KL	S4B-PH-KL	6.0	9.9	1,000	500
5	B5B-PH-KL	S5B-PH-KL	8.0	11.9	1,000	500
6	B6B-PH-KL	S6B-PH-KL	10.0	13.9	1,000	500
7	B7B-PH-KL	S7B-PH-KL	12.0	15.9	500	500
8	B8B-PH-KL	S8B-PH-KL	14.0	17.9	500	250
9	B9B-PH-KL	S9B-PH-KL	16.0	19.9	500	250
10	B10B-PH-KL	S10B-PH-KL	18.0	21.9	500	250
11	B11B-PH-KL	S11B-PH-KL	20.0	23.9	500	250
12	B12B-PH-KL	S12B-PH-KL	22.0	25.9	400	250
13	B13B-PH-KL	S13B-PH-KL	24.0	27.9	250	250
14	B14B-PH-KL	S14B-PH-KL	26.0	29.9	250	200
15	B15B-PH-KL	S15B-PH-KL	28.0	31.9	250	200
16	B16B-PH-KL	S16B-PH-KL	30.0	33.9	250	200

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, gray

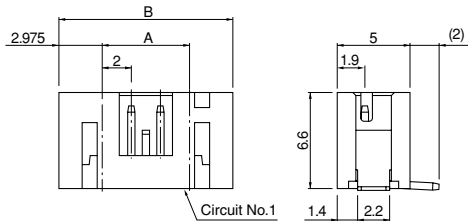
RoHS compliance This product displays (LF)(SN) on a label.

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

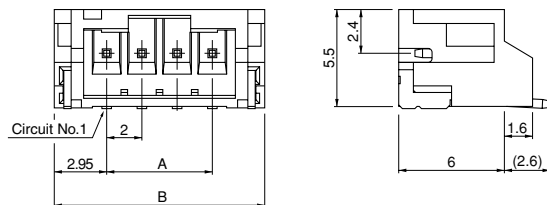
ex. **B2B-PH-KL-oo**
(blank)...gray
R...red E...blue S...natural (white)

SMT type shrouded header

Top entry type



Side entry type



Circuits	Model No.		Dimensions (mm)			Q'ty / reel
	Top entry type	Side entry type	A	B		
				Top entry type	Side entry type	
2	B2B-PH-SM4-TB	S2B-PH-SM4-TB	2.0	7.95	7.9	1,000
3	B3B-PH-SM4-TB	S3B-PH-SM4-TB	4.0	9.95	9.9	1,000
4	B4B-PH-SM4-TB	S4B-PH-SM4-TB	6.0	11.95	11.9	1,000
5	B5B-PH-SM4-TB	S5B-PH-SM4-TB	8.0	13.95	13.9	1,000
6	B6B-PH-SM4-TB	S6B-PH-SM4-TB	10.0	15.95	15.9	1,000
7	B7B-PH-SM4-TB	S7B-PH-SM4-TB	12.0	17.95	17.9	1,000
8	B8B-PH-SM4-TB	S8B-PH-SM4-TB	14.0	19.95	19.9	1,000
9	B9B-PH-SM4-TB	S9B-PH-SM4-TB	16.0	21.95	21.9	1,000
10	B10B-PH-SM4-TB	S10B-PH-SM4-TB	18.0	23.95	23.9	1,000
11	B11B-PH-SM4-TB	S11B-PH-SM4-TB	20.0	25.95	25.9	1,000
12	B12B-PH-SM4-TB	S12B-PH-SM4-TB	22.0	27.95	27.9	1,000
13	B13B-PH-SM4-TB	S13B-PH-SM4-TB	24.0	29.95	29.9	1,000
14	B14B-PH-SM4-TB	S14B-PH-SM4-TB	26.0	31.95	31.9	1,000
15	B15B-PH-SM4-TB	S15B-PH-SM4-TB	28.0	33.95	33.9	1,000
16	B16B-PH-SM4-TB	—	30.0	35.95	—	1,000

Material and Finish

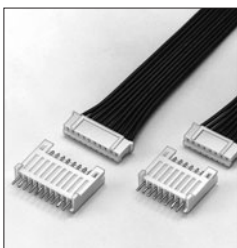
Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA, UL94V-0, natural (ivory)
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Note: Contact JST for the top entry type headers with suction cap.

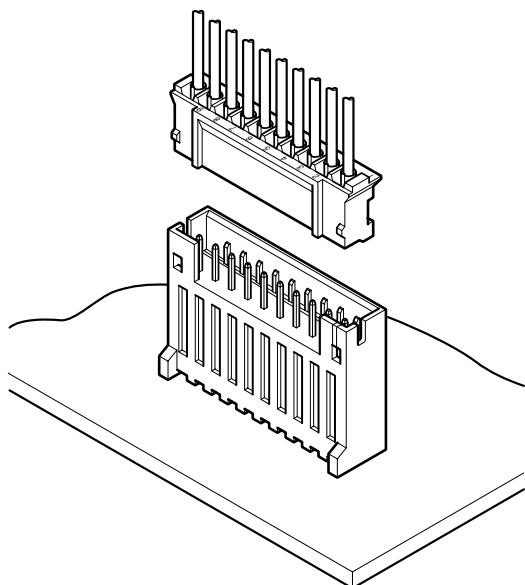
<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **B2B-PH-SM4-oo-TB**
(blank)...natural (ivory)
R...red E...blue M...green L...lemon yellow K...black
DPK...dark pink



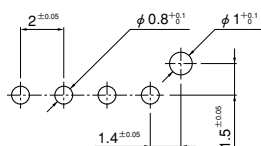
PH CONNECTOR <High box type>

2.0mm pitch/Disconnectable Crimp style connectors



PH connector high box type, with 17.0mm mounting height and with 4.5mm thickness.

• Interchangeability



Specifications

- Current rating: 2A AC, DC (AWG #24)
- Voltage rating: 100V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 10m Ω max.
After environmental testing/ 20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: AWG #30 to #24
- Applicable PC board thickness: 0.8 to 1.6mm

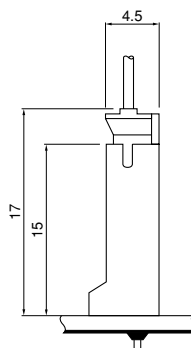
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

Recognized E60389

Certified LR20812

R75087

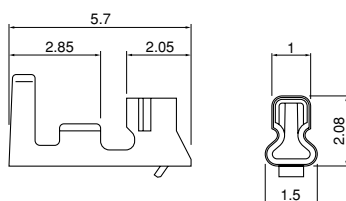


Note: 1. The above figure is the figure viewed from the connector mounting side.

2. Tolerances are non-cumulative: ±0.05mm for all centers.

3. Hole dimensions differ according to the kind of PC board and piercing method. If PC boards made of hard material are used, the hole dimensions should be larger. The hole dimensions shown above are reference values. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SPH-002T-P0.5S	0.05~0.22	30~24	0.9~1.5	8,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

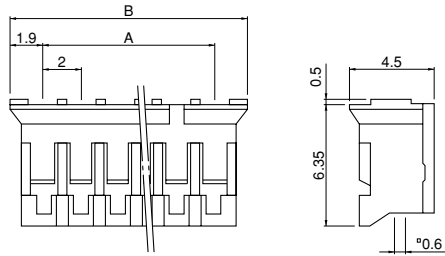
RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPH-002T-P0.5S	AP-K2N	MKS-L	MK/SPH-002-05S	APLMK SPH002-05S
		*MKS-SC	SC/SPH-002-05S	APLSC SPH002-05S

Note: *Strip-crimp applicator

PH CONNECTOR (High box type)

Housing



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	PHR-2	2.0	5.8	1,000
3	PHR-3	4.0	7.8	1,000
4	PHR-4	6.0	9.8	1,000
5	PHR-5	8.0	11.8	1,000
6	PHR-6	10.0	13.8	1,000
7	PHR-7	12.0	15.8	1,000
8	PHR-8	14.0	17.8	1,000
9	PHR-9	16.0	19.8	1,000
10	PHR-10	18.0	21.8	1,000
11	PHR-11	20.0	23.8	1,000
12	PHR-12	22.0	25.8	1,000
13	PHR-13	24.0	27.8	1,000

Material

PA 66, UL94V-0, natural (white)

RoHS compliance

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **PHR-2-oo**

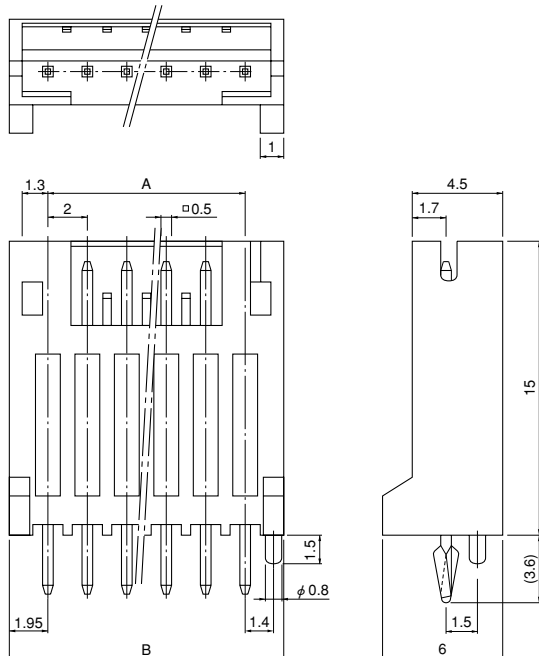
(blank)...natural (white)

BK...black R...red TR...tomato red BL...blue Y...yellow

L...lemon yellow M...green D...orange N...brown P...purple

PK...pink H...gray LE...light blue FY...vivid yellow

Shrouded header



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	BH2B-PH	2.0	5.9	800
3	BH3B-PH	4.0	7.9	480
4	BH4B-PH	6.0	9.9	400
5	BH5B-PH	8.0	11.9	390
6	BH6B-PH	10.0	13.9	300
7	BH7B-PH	12.0	15.9	240
8	BH8B-PH	14.0	17.9	240
9	BH9B-PH	16.0	19.9	200
10	BH10B-PH	18.0	21.9	200
11	BH11B-PH	20.0	23.9	150
12	BH12B-PH	22.0	25.9	150
13	BH13B-PH	24.0	27.9	100

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, natural (white)

RoHS compliance

This product displays (LF)(SN) on a label.
<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **BH2B-PH-oo**

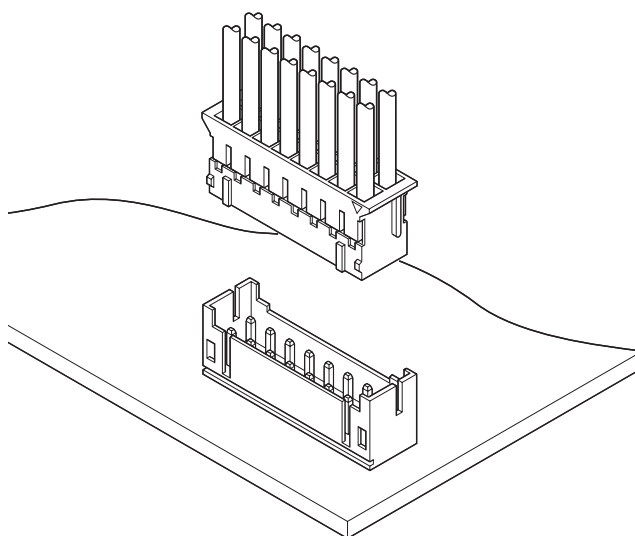
(blank)...natural (white)

K...black R...red E...blue Y...yellow M...green N...brown



PHD CONNECTOR

2.0mm pitch/Disconnectable Crimp style connectors



This is a 2.0mm pitch, crimp style, double-row, wire-to-board connector. It is designed to meet the demand for high-density and low-profile connection.

- Compact
- Reliable contacts
- Fully shrouded header

Specifications

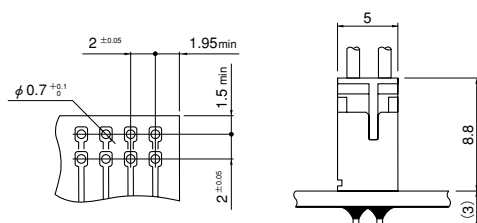
- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 10m Ω max.
After environmental testing/ 20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: AWG #28 to #22
- Applicable PC board thickness: 1.6mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

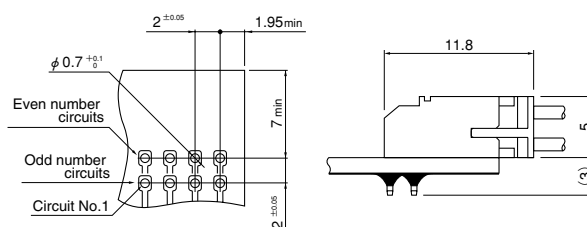
Recognized E60389

Certified LR20812

Top entry type



Side entry type

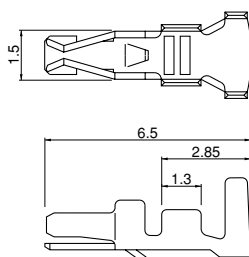


Note: 1. The above figure is the figure viewed from soldering side.

2. Tolerances are non-cumulative: ±0.05mm for all centers.

3. Hole dimensions differ according to the kind of PC board and piercing method. If PC boards made of hard material are used, the hole dimensions should be larger. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SPHD-002T-P0.5	0.08~0.21	28~24	0.9~1.5	8,000
SPHD-001T-P0.5	0.13~0.33	26~22	1.0~1.5	

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

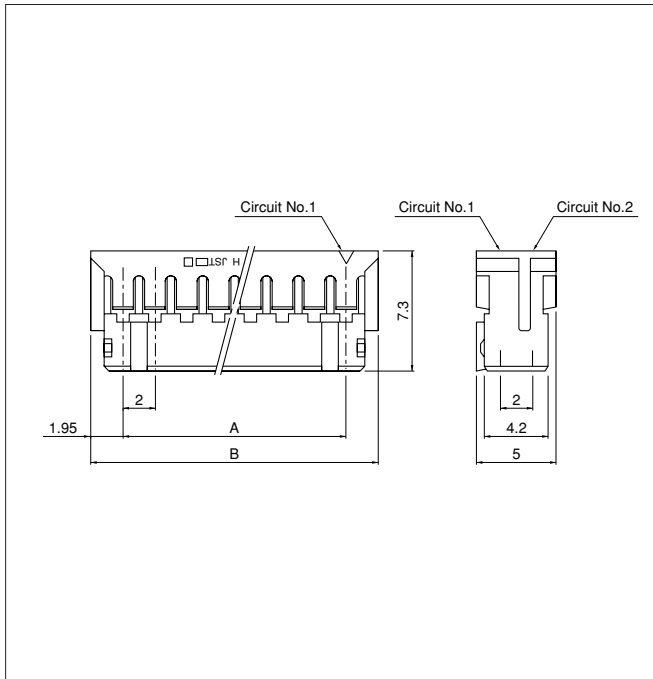
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPHD-002T-P0.5	AP-K2N	MKS-L-10	MK/SPHD-002-05	APLMK SPHD002-05
		*MKS-SC-10	SC/SPHD-002-05	APLSC SPHD002-05

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPHD-001T-P0.5	AP-K2N	MKS-L-10	MK/SPHD-001-05	APLMK SPHD001-05
		*MKS-SC-10	SC/SPHD-001-05	APLSC SPHD001-05

Note: *Strip-crimp applicator

PHD CONNECTOR

Housing



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
8	PHDR-08VS	6.0	9.9	1,000
10	PHDR-10VS	8.0	11.9	1,000
12	PHDR-12VS	10.0	13.9	1,000
14	PHDR-14VS	12.0	15.9	1,000
16	PHDR-16VS	14.0	17.9	1,000
18	PHDR-18VS	16.0	19.9	1,000
20	PHDR-20VS	18.0	21.9	1,000
22	PHDR-22VS	20.0	23.9	1,000
24	PHDR-24VS	22.0	25.9	1,000
26	PHDR-26VS	24.0	27.9	1,000
28	PHDR-28VS	26.0	29.9	1,000
30	PHDR-30VS	28.0	31.9	1,000
32	PHDR-32VS	30.0	33.9	1,000
34	PHDR-34VS	32.0	35.9	1,000

Material

PA 66, UL94V-0, natural (white)

RoHS compliance

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

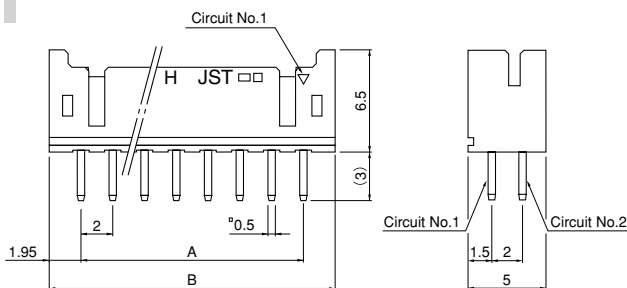
ex. **PHDR-10VS**

S...natural (white)

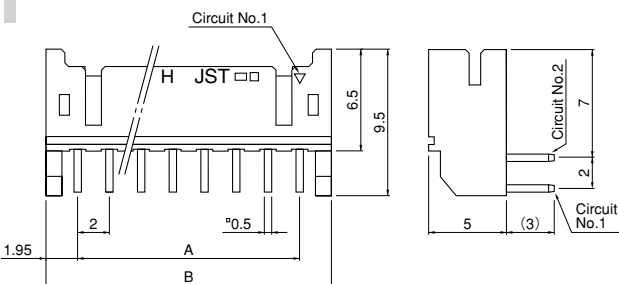
K...black Y...yellow E...blue R...red

Shrouded header

Top entry type



Side entry type



Circuits	Model No.				Dimensions (mm)		Q'ty / box	
	Glass-filled nylon		Nylon					
	Top entry type	Side entry type	Top entry type	Side entry type	A	B	Top entry type	Side entry type
8	B08B-PHDSS	S08B-PHDSS	—	—	6.0	9.9	500	500
10	B10B-PHDSS	S10B-PHDSS	B10B-PHDSS-B	S10B-PHDSS-B	8.0	11.9	500	500
12	B12B-PHDSS	S12B-PHDSS	B12B-PHDSS-B	S12B-PHDSS-B	10.0	13.9	500	500
14	B14B-PHDSS	S14B-PHDSS	B14B-PHDSS-B	S14B-PHDSS-B	12.0	15.9	500	250
16	B16B-PHDSS	S16B-PHDSS	B16B-PHDSS-B	S16B-PHDSS-B	14.0	17.9	500	250
18	B18B-PHDSS	S18B-PHDSS	B18B-PHDSS-B	S18B-PHDSS-B	16.0	19.9	500	250
20	B20B-PHDSS	S20B-PHDSS	B20B-PHDSS-B	S20B-PHDSS-B	18.0	21.9	250	250
22	B22B-PHDSS	S22B-PHDSS	B22B-PHDSS-B	S22B-PHDSS-B	20.0	23.9	250	250
24	B24B-PHDSS	S24B-PHDSS	B24B-PHDSS-B	S24B-PHDSS-B	22.0	25.9	250	200
26	B26B-PHDSS	S26B-PHDSS	B26B-PHDSS-B	S26B-PHDSS-B	24.0	27.9	250	200
28	B28B-PHDSS	S28B-PHDSS	B28B-PHDSS-B	S28B-PHDSS-B	26.0	29.9	250	200
30	B30B-PHDSS	S30B-PHDSS	B30B-PHDSS-B	S30B-PHDSS-B	28.0	31.9	250	200
32	B32B-PHDSS	S32B-PHDSS	B32B-PHDSS-B	S32B-PHDSS-B	30.0	33.9	250	200
34	B34B-PHDSS	S34B-PHDSS	B34B-PHDSS-B	S34B-PHDSS-B	32.0	35.9	250	200

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Wafer: Glass-filled PA 66, UL94V-0, natural (ivory)

PA 66, UL94V-0, natural (white)

RoHS compliance This product displays (LF)(SN) on a label.

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

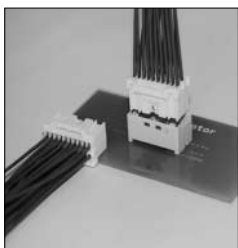
ex. **B10B-PHDSS**

S...natural (ivory)

ex. **B10B-PHDSS-B**

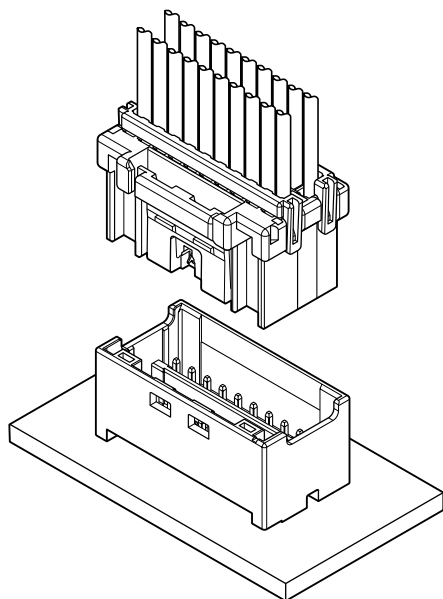
S...natural (white)

K...black Y...yellow E...blue R...red



PID CONNECTOR

2.0mm pitch/Disconnectable Crimp style connectors



This PID connector is a 2.0mm pitch box type wire-to-board connector with secure lock device, and it has the mechanism for detecting half mating, which is possible to judge electrically whether its state is the complete or incomplete mating by the circuit of detecting half mating provided at the part of connector.

- **Mechanism for detecting half mating**
- **Box type header**
(Potting treatment height is 6.5 mm max.)
- **Retainer**
- **Secure locking device**

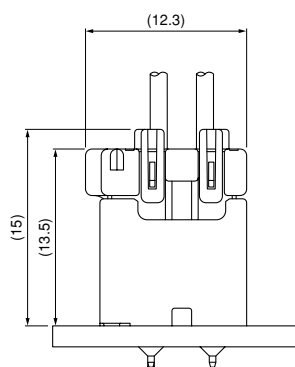
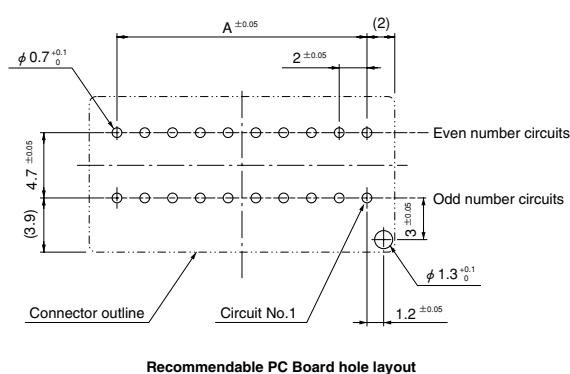
Specifications

- Current rating: 3 A AC, DC (AWG #22)
- Voltage rating: 250 V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 10 m Ω max.
After environmental tests/ 20 m Ω max.
- Insulation resistance: 1,000 MΩ min.
- Withstanding voltage: 800 VAC/minute
- Applicable wire: AWG #26 to #22
- Applicable PC board thickness: 1.6 mm

- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Compliant with RoHS.

Standards

Recognized E 60389

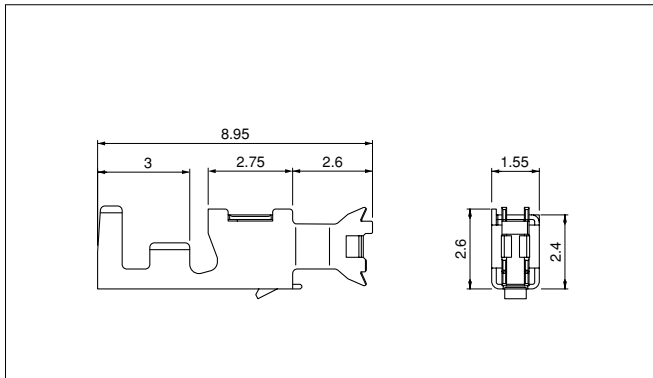


Circuits	Dimensions (mm)		Circuit No. of detection
	A	B	
10	8.0	12.0	5
12	10.0	14.0	7
14	12.0	16.0	7
16	14.0	18.0	9
18	16.0	20.0	9
20	18.0	22.0	11
22	20.0	24.0	11
24	22.0	26.0	13
26	24.0	28.0	13
30	28.0	32.0	15

Note: 1. The above figure is the figure viewed from the connector mounting side
 2. Tolerances are non-cumulative: ±0.05mm for all centers.
 3. Hole dimensions differ according to the type of PC board and piercing method.
 The dimensions above should serve as a guideline. Contact JST for details.

PID CONNECTOR

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SPID-001T-P0.5	0.13~0.33	26~22	1.0~1.5	7,500

Material and Finish

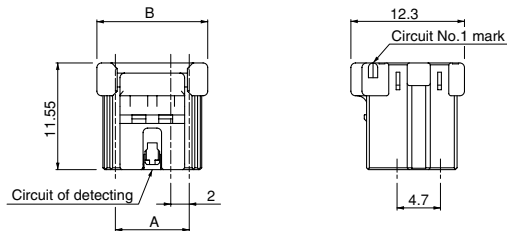
Copper alloy, tin-plated (reflow treatment)

RoHS compliance

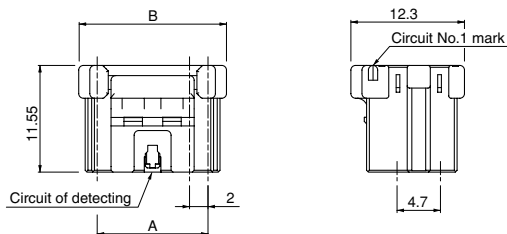
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPID-001T-P0.5	AP-K2N	MKS-L	MK/SPID-001-05	APLMK SPID001-05
		—	—	—

Housing

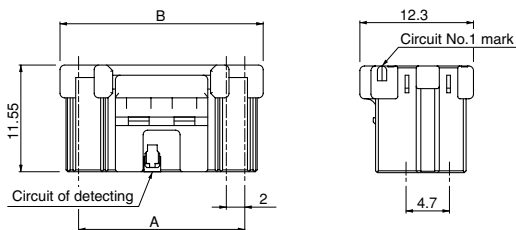
<10 circuits>



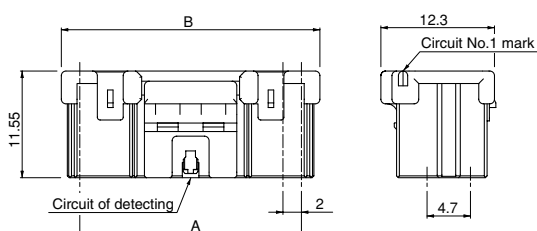
<12 to 14 circuits>



<16 to 20 circuits>



<22 to 30 circuits>



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
10	PIDRP-10V-S	8.0	12.0	1,000
12	PIDRP-12V-S	10.0	14.0	1,000
14	PIDRP-14V-S	12.0	16.0	1,000
16	PIDRP-16V-S	14.0	18.0	1,000
18	PIDRP-18V-S	16.0	20.0	1,000
20	PIDRP-20V-S	18.0	22.0	1,000
22	PIDRP-22V-S	20.0	24.0	500
24	PIDRP-24V-S	22.0	26.0	500
26	PIDRP-26V-S	24.0	28.0	500
30	PIDRP-30V-S	28.0	32.0	500

Material

Glass-filled PBT, UL94V-0, natural

RoHS compliance

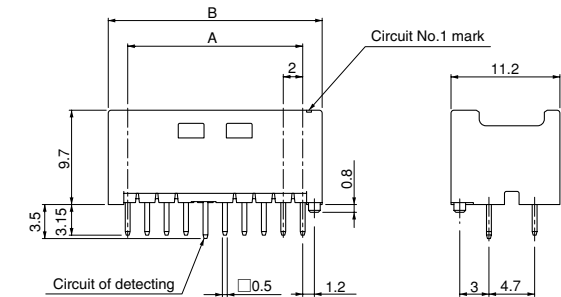
<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **PIDRP-10V-S**
S...natural K...black

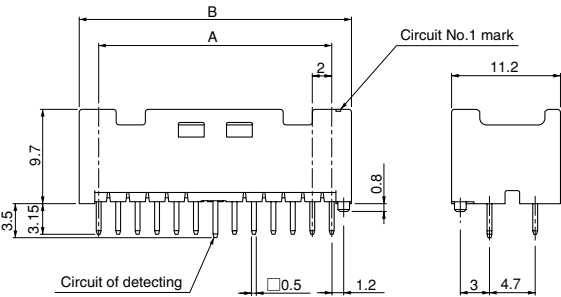
PID CONNECTOR

Header

<10 to 20 circuits>



<22 to 30 circuits>



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
10	B10B-PIDSS-1	8.0	12.0	4,000
12	B12B-PIDSS-1	10.0	14.0	3,360
14	B14B-PIDSS-1	12.0	16.0	2,880
16	B16B-PIDSS-1	14.0	18.0	2,560
18	B18B-PIDSS-1	16.0	20.0	2,400
20	B20B-PIDSS-1	18.0	22.0	2,080
22	B22B-PIDSS-1	20.0	24.0	1,920
24	B24B-PIDSS-1	22.0	26.0	1,760
26	B26B-PIDSS-1	24.0	28.0	1,600
30	B30B-PIDSS-1	28.0	32.0	1,440

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PA 66, UL94V-0, natural

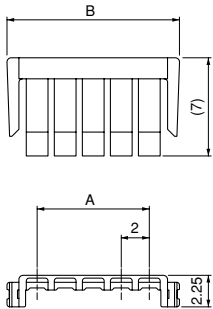
RoHS compliance This product displays (LF)(SN) on a label.

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

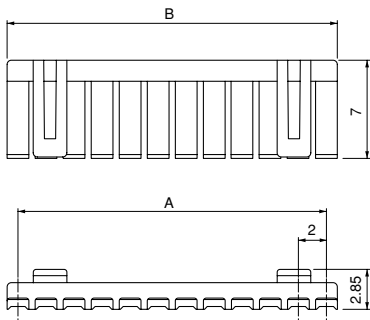
ex. **B10B-PIDSS-1**
S...natural K...black

Retainer

<5 to 10 circuits>



<11 to 15 circuits>



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
5	PNIS-05V	8.0	12.3	1,000
6	PNIS-06V	10.0	14.3	1,000
7	PNIS-07V	12.0	16.3	1,000
8	PNIS-08V	14.0	18.3	1,000
9	PNIS-09V	16.0	20.3	1,000
10	PNIS-10V	18.0	22.3	1,000
11	PMS-11V-S	20.0	21.55	1,000
12	PMS-12V-S	22.0	23.55	1,000
13	PMS-13V-S	24.0	25.55	1,000
15	PMS-15V-S	28.0	29.55	1,000

Material

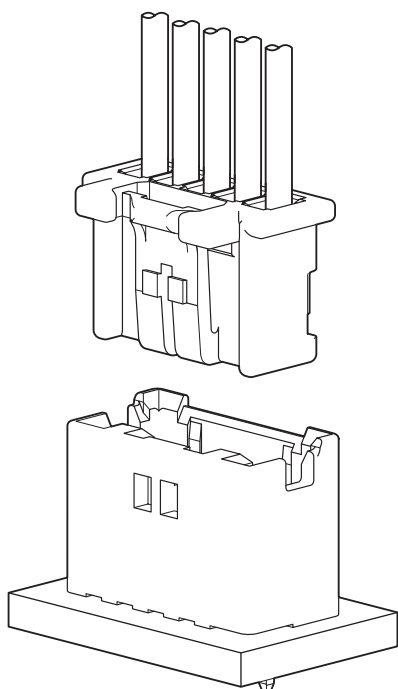
Glass-filled PA 66, UL94V-0, natural

RoHS compliance



PLI CONNECTOR

2.0mm pitch/Disconnectable Crimp style connectors



This PLI connector is 2.0mm pitch low profile type board-to-wire connector that has a mechanism to prevent an incomplete mating when mating connector.

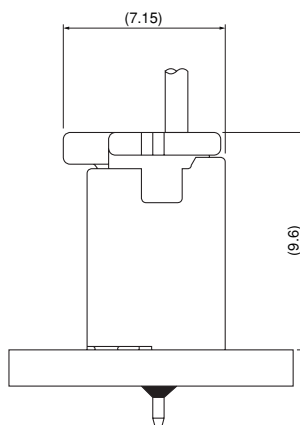
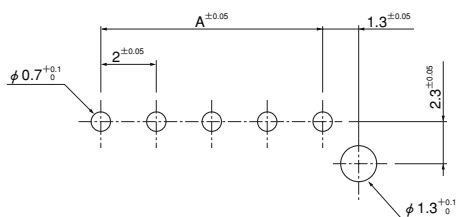
- Inertia lock mechanism
- Secure locking device
- Low profile

Specifications

- Current rating: 3A AC, DC (AWG #22)
 - Voltage rating: 100V AC, DC
 - Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
 - Contact resistance: Initial value/ 10m Ω max.
After environmental testing/ 20m Ω max.
 - Insulation resistance: 1,000M Ω min.
 - Withstanding voltage: 800V AC/ minute
 - Applicable wire: AWG #28 to #22
 - Applicable PC board thickness: 1.6mm
- * Compliant with RoHS.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

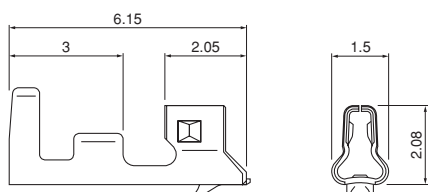
Recognized E 60389



Note: 1. The above figure is the figure viewed from the connector mounting side.
2. Tolerances are non-cumulative: ± 0.05 mm for all centers.
3. Hole dimensions differ according to the kind of PC board and piercing method.
The dimensions above should serve as a guideline. Contact JST for details.

PLI CONNECTOR

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SPLI-001T-P0.5	0.13~0.33	26~22	1.0~1.5	10,000
SPLI-002T-P0.5	0.08~0.22	28~24	0.8~1.5	10,000

Material and Finish

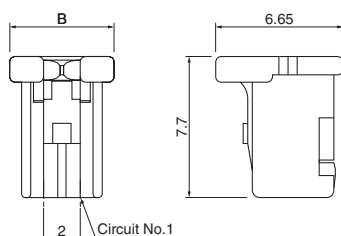
Copper alloy, tin-plated (reflow treatment)

RoHS compliance

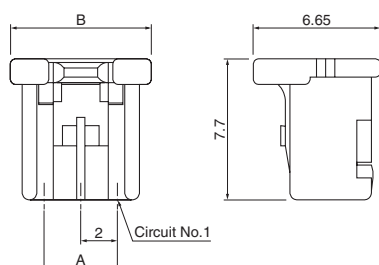
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPLI-001T-P0.5	AP-K2N	MKS-L	MK/SPLI-001-05	APLMK SPLI001-05
SPLI-002T-P0.5		MKS-L	MK/SPLI-002-05	APLMK SPLI002-05

Housing

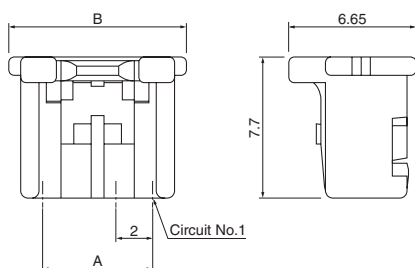
<2 circuits>



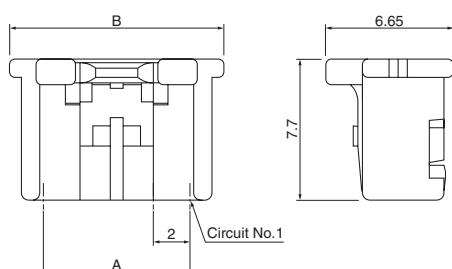
<3 circuits>



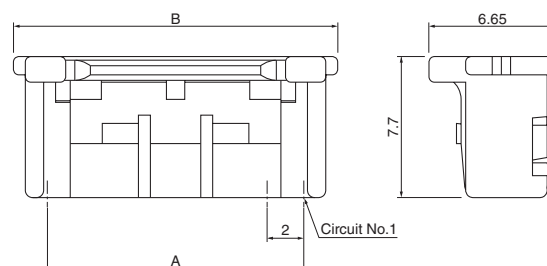
<4, 6 circuits>



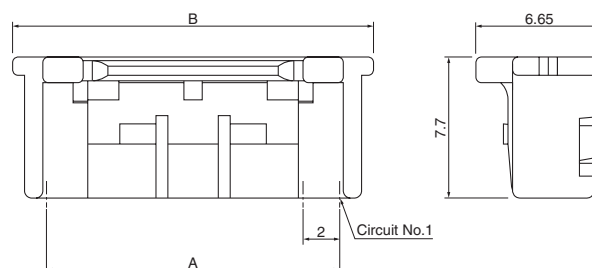
<5, 7 circuits>



<8 circuits>



<9, 10 circuits>



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	PLIP-02V-S	—	5.7	1,000
3	PLIP-03V-S	4.0	7.7	1,000
4	PLIP-04V-S	6.0	9.7	1,000
5	PLIP-05V-S	8.0	11.7	1,000
6	PLIP-06V-S	10.0	13.7	1,000
7	PLIP-07V-S	12.0	15.7	1,000
8	PLIP-08V-S	14.0	17.7	500
9	PLIP-09V-S	16.0	19.7	500
10	PLIP-10V-S	18.0	21.7	500

Material

Glass-filled PBT, UL94V-0, natural

RoHS compliance

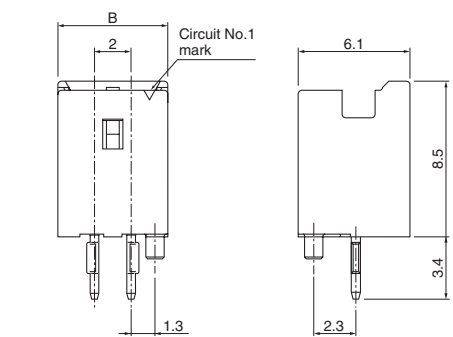
<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **PLIP-02V-S**
S...natural R...red E...blue Y...yellow M...green K...black

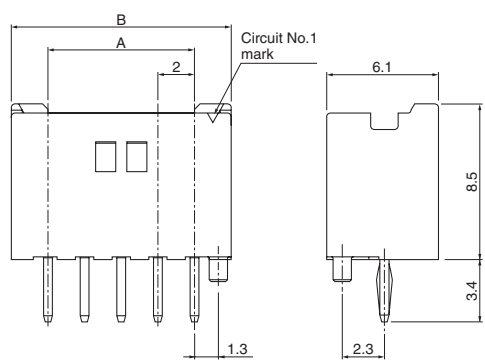
PLI CONNECTOR

Shrouded header

<2 circuits>



<3 to 10 circuits>



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	B02B-PLISK-1	—	6.0	1,000
3	B03B-PLISK-1	4.0	8.0	1,000
4	B04B-PLISK-1	6.0	10.0	500
5	B05B-PLISK-1	8.0	12.0	500
6	B06B-PLISK-1	10.0	14.0	400
7	B07B-PLISK-1	12.0	16.0	350
8	B08B-PLISK-1	14.0	18.0	300
9	B09B-PLISK-1	16.0	20.0	250
10	B10B-PLISK-1	18.0	22.0	250

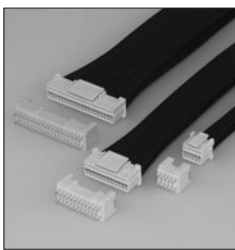
Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PA 66, UL94V-0, natural

RoHS compliance This product displays (LF)(SN) on a label.

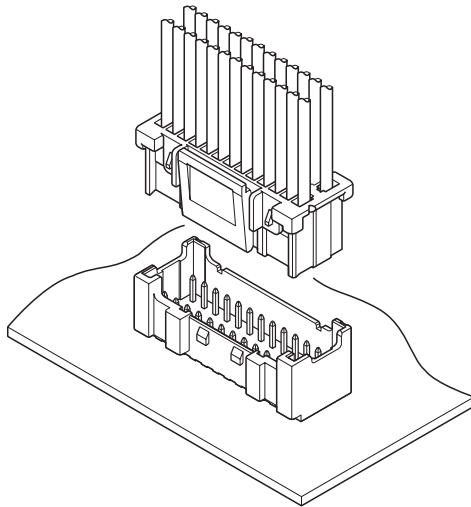
<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **B02B-PLISK-1**
S...natural R...red E...blue Y...yellow M...green K...black



PND CONNECTOR

2.0mm pitch/Disconnectable Crimp style connectors



The PND connector is the high-density dipping type connector with secure lock for wire to board connection and enabled to achieve excellent workability and withstand the unexpected external force.

- Superior operability (Low insertion force)
- Withstanding external force and secure locking device
- Countermeasure for inverse insertion and mismatching insertion
- High density
- Polarizing boss

Specifications

- Current rating: 3 A AC, DC (AWG #22)
- Voltage rating: 250 V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 10 mΩ max.
After environmental tests/ 20 mΩ max.
- Insulation resistance: 1,000 MΩ min.
- Withstanding voltage: 800 VAC/minute
- Applicable wire: AWG #28 to #22

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

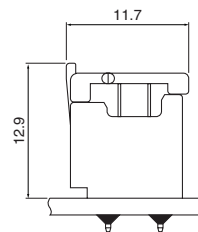
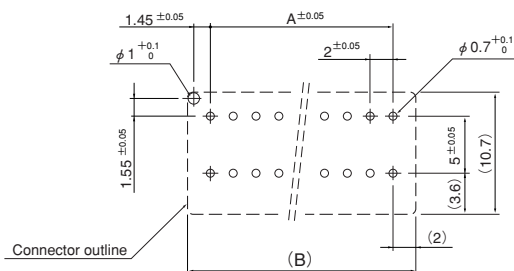
* Contact JST for details.

* Compliant with RoHS.

Standards

Recognized E60389

Certified LR20812

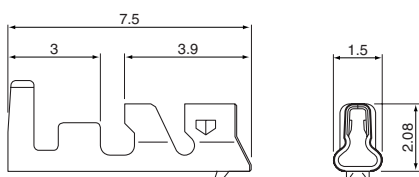


Note: 1. The above figure is the figure viewed from the connector mounting side.

2. Tolerances are non-cumulative: ±0.05mm for all centers.

3. Hole dimensions differ according to the type of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SPND-001T-C0.5	0.13~0.33	26~22	1.0~1.5	8,000
SPND-002T-C0.5	0.08~0.22	28~24	0.8~1.5	

Material and Finish

Copper alloy, tin-plated (reflow treatment)

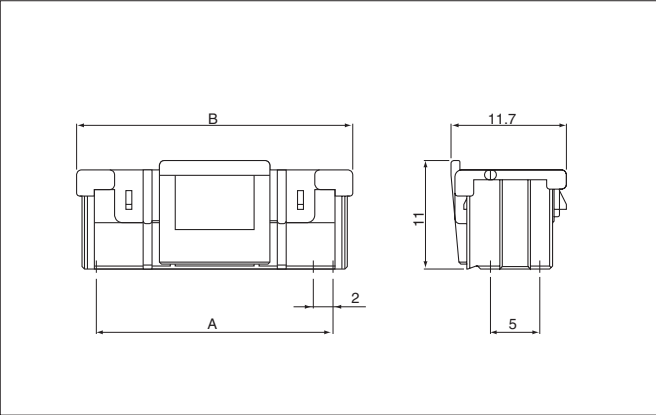
RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPND-001T-C0.5	AP-K2N	MKS-L	MK/SPND-001-05	APLMK SPND001-05
		*MKS-SC	SC/SPND-001-05	APLSC SPND001-05
SPND-002T-C0.5		MKS-L	MK/SPAD/ND-002-05	APLMK SPAD/ND002-05
		—	—	—

Note: *Strip-crimp applicator

PND CONNECTOR

Housing



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
	Side entry type	A	B	
8	PNDP-08V-Z	6.0	10.0	500
10	PNDP-10V-Z	8.0	12.0	500
12	PNDP-12V-Z	10.0	14.0	500
14	PNDP-14V-Z	12.0	16.0	500
16	PNDP-16V-Z	14.0	18.0	300
18	PNDP-18V-Z	16.0	20.0	300
20	PNDP-20V-Z	18.0	22.0	300
22	PNDP-22V-Z	20.0	24.0	300
24	PNDP-24V-Z	22.0	26.0	250
26	PNDP-26V-Z	24.0	28.0	250
28	PNDP-28V-Z	26.0	30.0	250
30	PNDP-30V-Z	28.0	32.0	150
32	PNDP-32V-Z	30.0	34.0	150
34	PNDP-34V-Z	32.0	36.0	150
36	PNDP-36V-Z	34.0	38.0	100
38	PNDP-38V-Z	36.0	40.0	100
40	PNDP-40V-Z	38.0	42.0	100
42	PNDP-42V-Z	40.0	44.0	100

Material				
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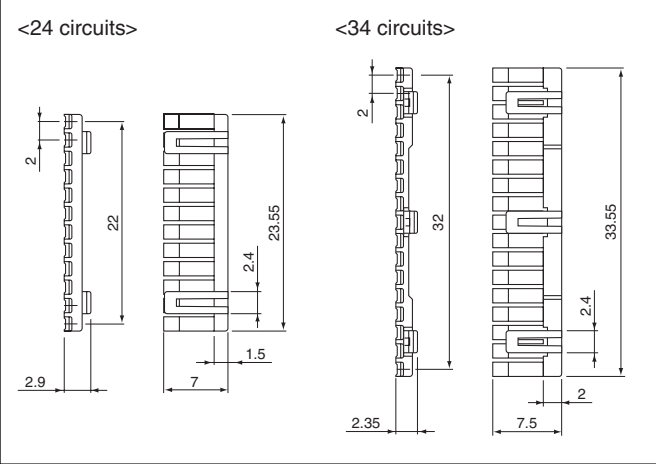
PA 66, UL94V-0, ivory

RoHS compliance

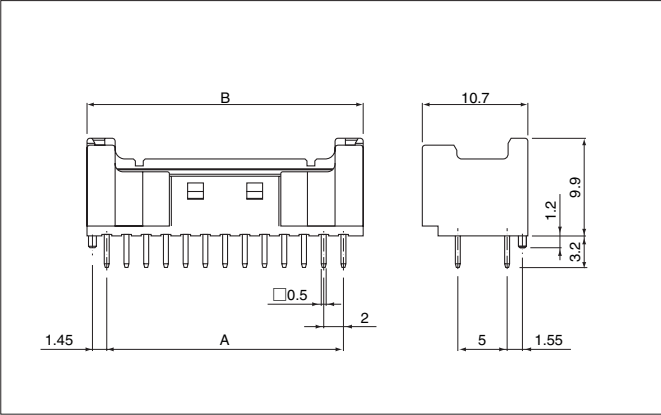
<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **PNDP-28V-Z**
Z...ivory K...black R...red E...blue M...green N...brown
PK...pink D...orange

Retainer



Shrouded header



Circuits	Model No.		Dimensions (mm)		Q'ty / box
	With boss	Side entry type	A	B	
8	B08B-PNDZS-1	B08B-PNDZS	6.0	10.0	736
10	B10B-PNDZS-1	B10B-PNDZS	8.0	12.0	608
12	B12B-PNDZS-1	B12B-PNDZS	10.0	14.0	512
14	B14B-PNDZS-1	B14B-PNDZS	12.0	16.0	448
16	B16B-PNDZS-1	B16B-PNDZS	14.0	18.0	416
18	B18B-PNDZS-1	B18B-PNDZS	16.0	20.0	352
20	B20B-PNDZS-1	B20B-PNDZS	18.0	22.0	320
22	B22B-PNDZS-1	B22B-PNDZS	20.0	24.0	288
24	B24B-PNDZS-1	B24B-PNDZS	22.0	26.0	288
26	B26B-PNDZS-1	B26B-PNDZS	24.0	28.0	256
28	B28B-PNDZS-1	B28B-PNDZS	26.0	30.0	224
30	B30B-PNDZS-1	B30B-PNDZS	28.0	32.0	224
32	B32B-PNDZS-1	B32B-PNDZS	30.0	34.0	192
34	B34B-PNDZS-1	B34B-PNDZS	32.0	36.0	192
36	B36B-PNDZS-1	B36B-PNDZS	34.0	38.0	192
38	B38B-PNDZS-1	B38B-PNDZS	36.0	40.0	160
40	B40B-PNDZS-1	B40B-PNDZS	38.0	42.0	160
42	B42B-PNDZS-1	—	40.0	44.0	160

Material and Finish				
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Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PA 66, UL94V-0, ivory

RoHS compliance This product displays (LF)(SN) on a label.

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

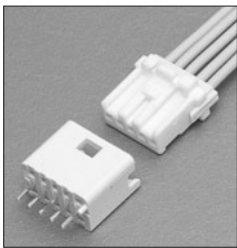
ex. **B28B-PNDZS-1**
Z...ivory K...black R...red E...blue M...green
N...brown PK...pink D...orange

Circuits	Model No.	Q'ty / bag
24	PNDS-24V-Z	1,000
34	PNDS-34V-Z	1,000

Material		
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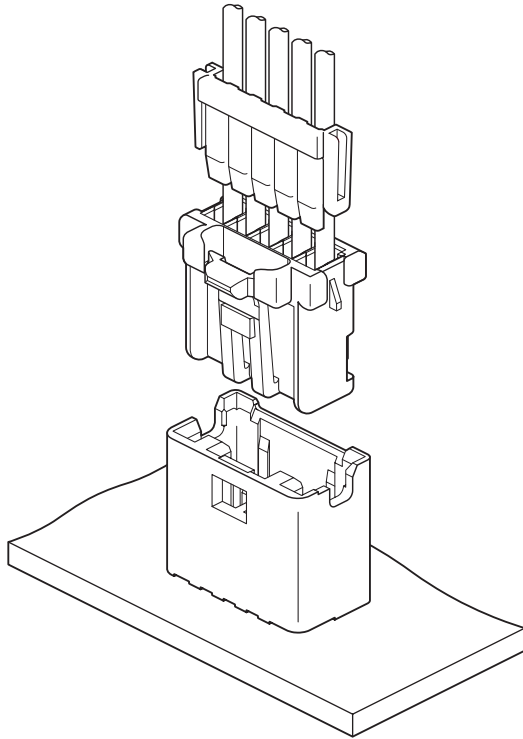
Glass-filled PA 66, UL94V-0, ivory

RoHS compliance



PNI CONNECTOR

2.0mm pitch/Disconnectable Crimp style connectors



This is a 2.0mm pitch wire-to-board connector, having incomplete mating prevention mechanism.

- Inertial lock structure
- Finger-friendly design
- Secure locking structure

Specifications

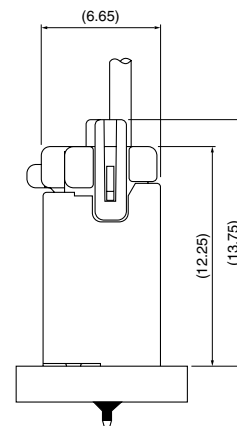
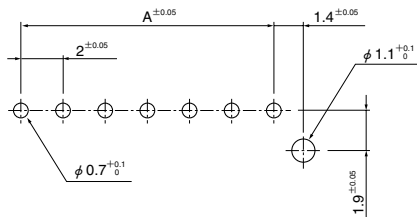
- Current rating: 3 A AC, DC (AWG#22)
- Voltage rating: 100 V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 10 mΩ max.
After environmental tests/ 20 mΩ max.
- Insulation resistance: 1,000 MΩ min.
- Withstanding voltage: 800 VAC/minute
- Applicable wire: AWG #28 to #22
- Applicable PC board thickness: 1.6 mm

- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Compliant with RoHS.

Standards

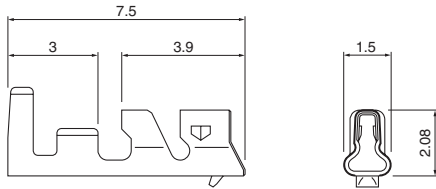
⚡ Recognized E60389

Ⓢ Certified LR20812



Note: 1. The above figure is the figure viewed from the connector mounting side.
2. Tolerances are non-cumulative: ± 0.05 mm for all centers.
3. Hole dimensions differ according to the type of PC board and piercing method.
The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SPND-001T-C0.5	0.13~0.33	26~22	1.0~1.5	8,000
SPND-002T-C0.5	0.08~0.22	28~24	0.8~1.5	8,000

Material and Finish

Copper alloy, tin-plated (reflow treatment)

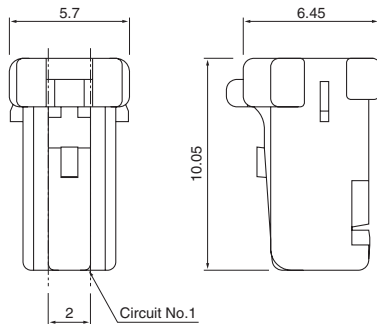
RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPND-001T-C0.5	AP-K2N	MKS-L	MK/SPND-001-05	APLMK SPND001-05
		*MKS-SC	SC/SPND-001-05	APLSC SPND00105
SPND-002T-C0.5		MKS-L	MK/SPAD/ND-002-05	APLMK SPAD/ND002-05
		—	—	—

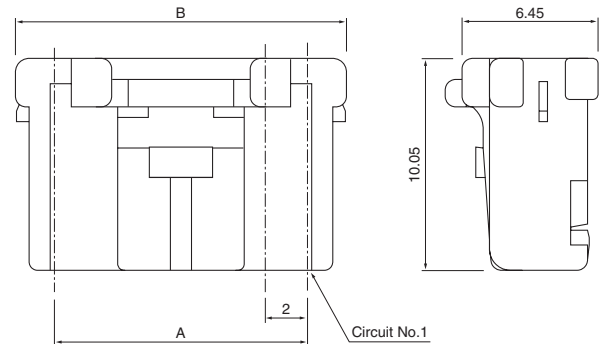
Note: *Strip-crimp applicator

Housing

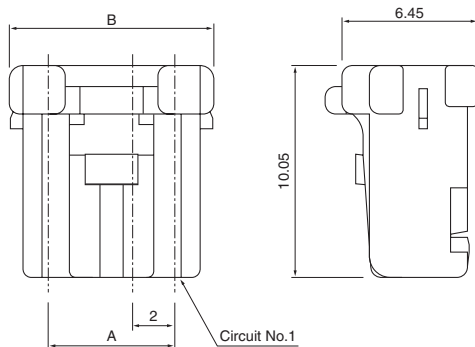
<2 circuits>



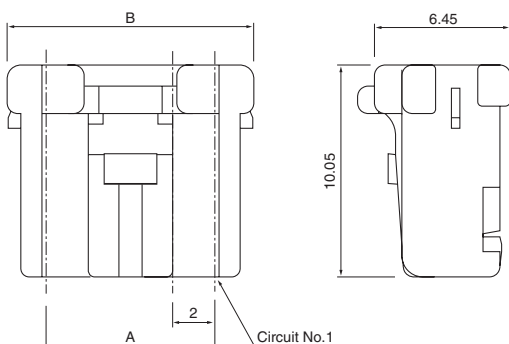
<7 to 10 circuits>



<3, 4 circuits>



<5, 6 circuits>



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	PNIRP-02V-S	—	5.7	1,000
3	PNIRP-03V-S	4.0	7.7	1,000
4	PNIRP-04V-S	6.0	9.7	1,000
5	PNIRP-05V-S	8.0	11.7	1,000
6	PNIRP-06V-S	10.0	13.7	1,000
7	PNIRP-07V-S	12.0	15.7	1,000
8	PNIRP-08V-S	14.0	17.7	1,000
9	PNIRP-09V-S	16.0	19.7	1,000
10	PNIRP-10V-S	18.0	21.7	1,000

Material

Glass-filled PBT, UL94V-0, natural (white)

RoHS compliance

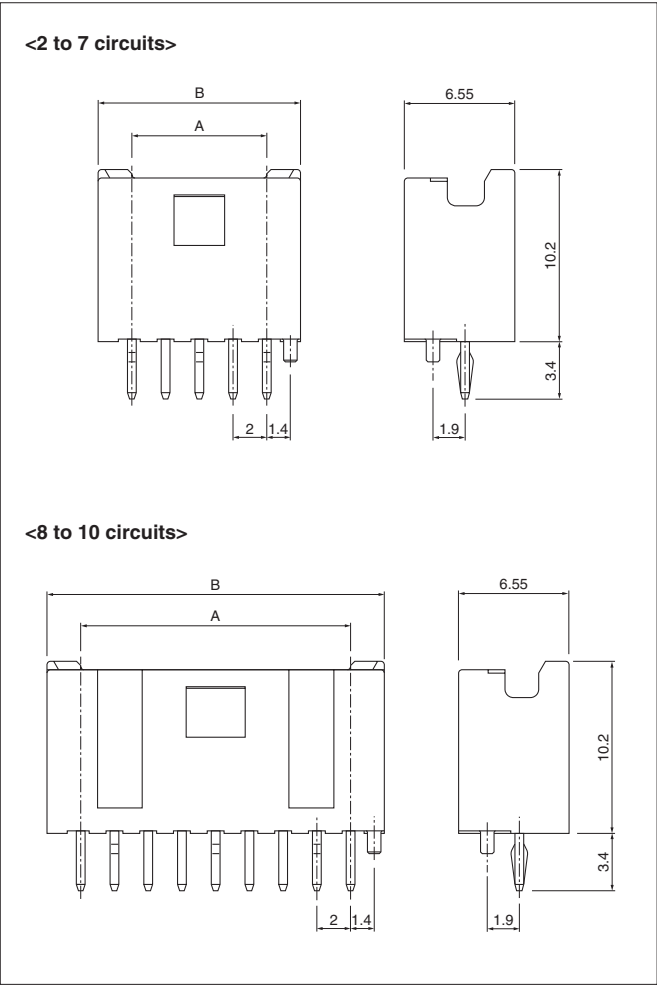
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **PNIRP-02V-S**

S...natural (white) M...green R...red E...blue H...gray
LG...light green K...black Y...yellow

PNI CONNECTOR

Shrouded header



Glass-filled PBT

Circuits	Model No.	Dimensions (mm)		Q'ty / box
	With boss	A	B	
2	B02B-PNISK-1	2.0	6.0	1,000
3	B03B-PNISK-1	4.0	8.0	1,000
4	B04B-PNISK-1	6.0	10.0	500
5	B05B-PNISK-1	8.0	12.0	500

Material and Finish				
Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)				
Wafer: Glass-filled PBT, UL94V-0, natural (white)				

RoHS compliance This product displays (LF)(SN) on a label.

Glass-filled PA 66

Circuits	Model No.	Dimensions (mm)		Q'ty / box
	With boss	A	B	
2	B02B-PNISK-1A	2.0	6.0	1,000
3	B03B-PNISK-1A	4.0	8.0	1,000
4	B04B-PNISK-1A	6.0	10.0	500
5	B05B-PNISK-1A	8.0	12.0	500
6	B06B-PNISK-1A	10.0	14.0	350
7	B07B-PNISK-1A	12.0	16.0	300
8	B08B-PNISK-1A	14.0	18.0	250
9	B09B-PNISK-1A	16.0	20.0	250
10	B10B-PNISK-1A	18.0	22.0	250

Material and Finish				
Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)				
Wafer: Glass-filled PA 66, UL94V-0, natural (white)				

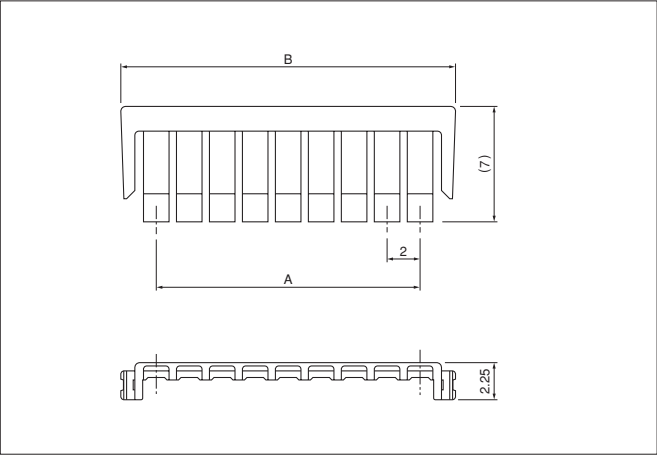
RoHS compliance This product displays (LF)(SN) on a label.

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **B02B-PNISK-1**
S...natural (white) M...green R...red E...blue H...gray
K...black

ex. **B02B-PNISK-1A**
S...natural (white) M...green R...red E...blue H...gray
LG...light green Y...yellow

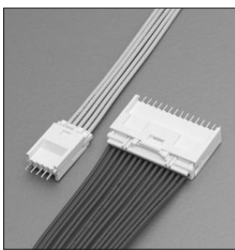
Retainer



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	PNIS-02V	2.0	6.3	1,000
3	PNIS-03V	4.0	8.3	1,000
4	PNIS-04V	6.0	10.3	1,000
5	PNIS-05V	8.0	12.3	1,000
6	PNIS-06V	10.0	14.3	1,000
7	PNIS-07V	12.0	16.3	1,000
8	PNIS-08V	14.0	18.3	1,000
9	PNIS-09V	16.0	20.3	1,000
10	PNIS-10V	18.0	22.3	1,000

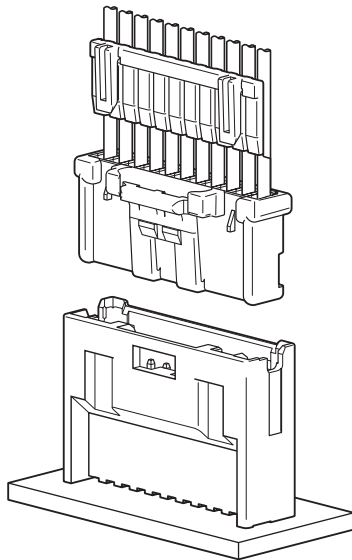
Material				
Glass-filled PA 66, UL94V-0, natural (ivory)				

RoHS compliance



PNI CONNECTOR <High box type>

2.0mm pitch/Disconnectable Crimp style connectors



This is a board-to-wire connector with secure locking device that has been designed to 2mm pitch high box type, with a mounting height of 19.95mm (including retainer) and 6.65mm in depth. Low insertion force type contact is adopted and it provides excellent operability. Retainer is available as usage.

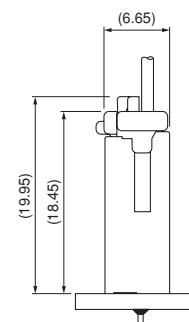
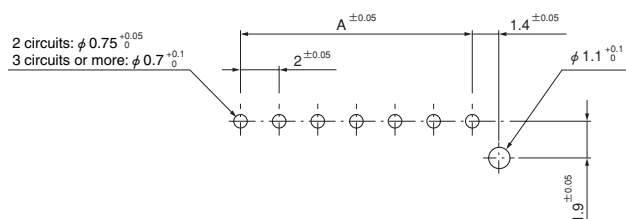
- Header for use specifically with resin coated ("potted") PC board
- Secure locking structure
- Retainer mountable type

Specifications

- Current rating: 3 A AC, DC (AWG #22)
 - Voltage rating: 100 V AC, DC
 - Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
 - Contact resistance: Initial value/ 10 mΩ max.
After environmental tests/ 20 mΩ max.
 - Insulation resistance: 1,000 MΩ min.
 - Withstanding voltage: 800 VAC/minute
 - Applicable wire: AWG #28 to #22
 - Applicable PC board thickness: 1.6 mm
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.
* Compliant with RoHS.

Standards

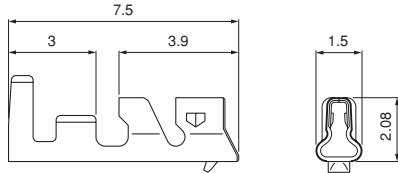
- UL Recognized E 60389
- CS Certified LE 20812



Note: 1. The above figure is the figure viewed from the connector mounting side.
2. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
3. Hole dimensions differ according to the type of PC board and piercing method.
The dimensions above should serve as a guideline. Contact JST for details.

PNI CONNECTOR (High box type)

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SPND-001T-C0.5	0.13~0.33	26~22	1.0~1.5	8,000
SPND-002T-C0.5	0.08~0.22	28~24	0.8~1.5	8,000

Material and Finish

Copper alloy, tin-plated (reflow treatment)

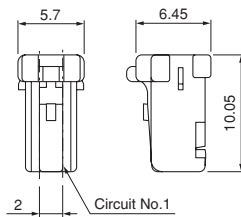
RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPND-001T-C0.5	AP-K2N	MKS-L	MK/SPND-001-05	APLMK SPND001-05
		*MKS-SC	SC/SPND-001-05	APLSC SPND001-05
SPND-002T-C0.5	AP-K2N	MKS-L	MK/SPAD/ND-002-05	APLMK SPAD/ND002-05

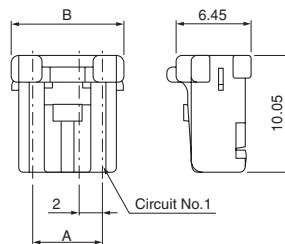
Note: *Strip-crimp applicator

Housing

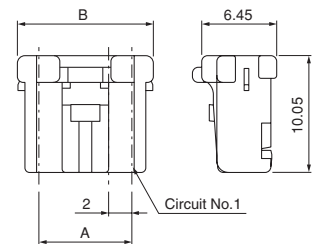
<2 circuits>



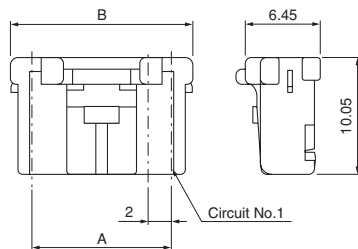
<3, 4 circuits>



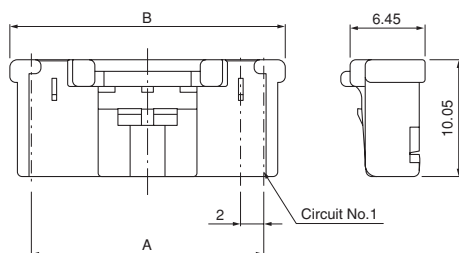
<5, 6 circuits>



<7 to 10 circuits>



<11 to 15 circuits>



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	PNIRP-02V-S	—	5.7	1,000
3	PNIRP-03V-S	4.0	7.7	1,000
4	PNIRP-04V-S	6.0	9.7	1,000
5	PNIRP-05V-S	8.0	11.7	1,000
6	PNIRP-06V-S	10.0	13.7	1,000
7	PNIRP-07V-S	12.0	15.7	1,000
8	PNIRP-08V-S	14.0	17.7	1,000
9	PNIRP-09V-S	16.0	19.7	1,000
10	PNIRP-10V-S	18.0	21.7	1,000
11	PNIRP-11V-S	20.0	23.7	1,000
12	PNIRP-12V-S	22.0	25.7	1,000
13	PNIRP-13V-S	24.0	27.7	1,000
14	PNIRP-14V-S	26.0	29.7	500
15	PNIRP-15V-S	28.0	31.7	500

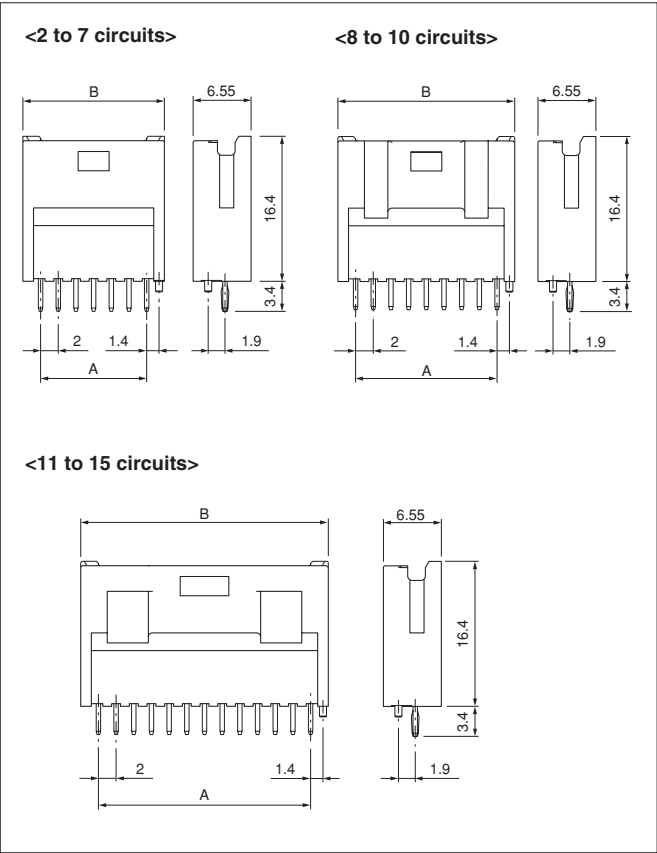
Material

Glass-filled PBT, UL94V-0, natural (white)

RoHS compliance

PNI CONNECTOR (High box type)

Shrouded header



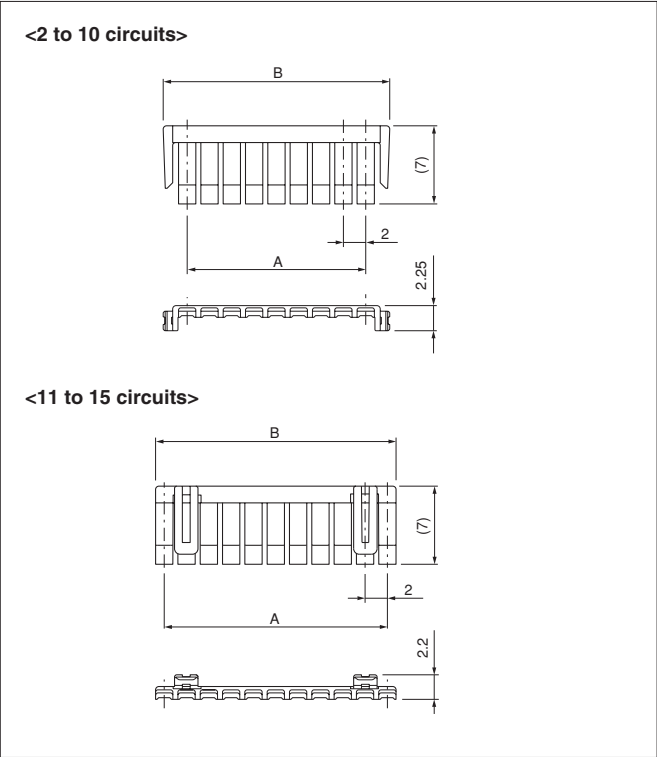
Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	BH02B-PNISK-1A	2.0	6.0	500
3	BH03B-PNISK-1A	4.0	8.0	450
4	BH04B-PNISK-1A	6.0	10.0	350
5	BH05B-PNISK-1A	8.0	12.0	300
6	BH06B-PNISK-1A	10.0	14.0	250
7	BH07B-PNISK-1A	12.0	16.0	200
8	BH08B-PNISK-1A	14.0	18.0	200
9	BH09B-PNISK-1A	16.0	20.0	150
10	BH10B-PNISK-1A	18.0	22.0	150
11	BH11B-PNISK-1A	20.0	24.0	150
12	BH12B-PNISK-1A	22.0	26.0	100
13	BH13B-PNISK-1A	24.0	28.0	100
14	BH14B-PNISK-1A	26.0	30.0	100
15	BH15B-PNISK-1A	28.0	32.0	100

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PA 66, UL94V-0, white

RoHS compliance This product displays (LF)(SN) on a label.

Retainer

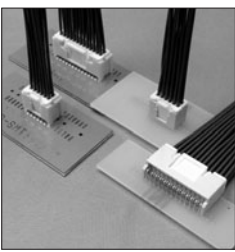


Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	PNIS-02V	2.0	6.3	1,000
3	PNIS-03V	4.0	8.3	1,000
4	PNIS-04V	6.0	10.3	1,000
5	PNIS-05V	8.0	12.3	1,000
6	PNIS-06V	10.0	14.3	1,000
7	PNIS-07V	12.0	16.3	1,000
8	PNIS-08V	14.0	18.3	1,000
9	PNIS-09V	16.0	20.3	1,000
10	PNIS-10V	18.0	22.3	1,000
11	PNIS-11V	20.0	21.55	1,000
12	PNIS-12V	22.0	23.55	1,000
13	PNIS-13V	24.0	25.55	1,000
14	PNIS-14V	26.0	27.55	1,000
15	PNIS-15V	28.0	29.55	1,000

Material

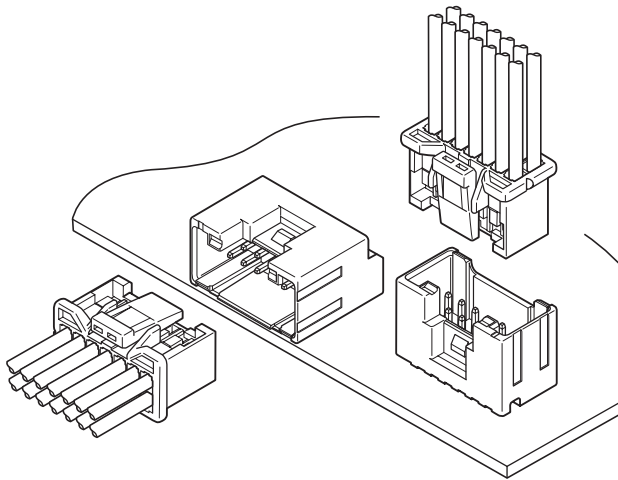
Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance



PUD CONNECTOR

2.0mm pitch/Disconnectable Crimp style connectors



This is a board-to-wire connector with secure locking device that has been designed to 2.0mm pitch, crimping style and double-row. In spite of realizing low insertion force, the stable electric connection is demonstrated against the condition such as vibration, pinching and dry circuit. It is possible to unfasten the locking even if the header is surrounded with a case wall within height of header because the tip of locking device in receptacle does not protrude from its area.

- **High reliability contact**
- **Superior operability**
- **Secure locking structure**
- **Polarizing key for mounting on PC board**

Specifications

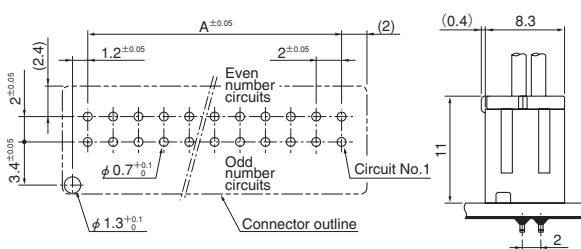
- Current rating: 3A AC, DC (AWG#22)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: 001 type/AWG #26 to #22
002 type/AWG #28 to #24
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

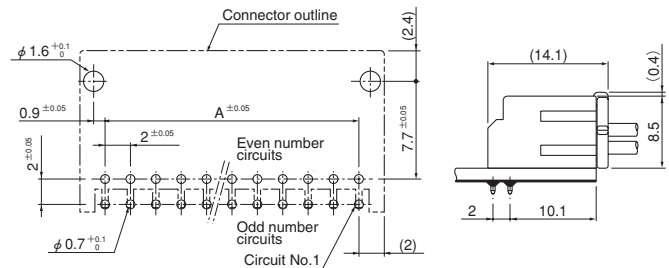
Recognized E 60389

PC board layout (viewed from component side) and Assembly layout

Top entry type

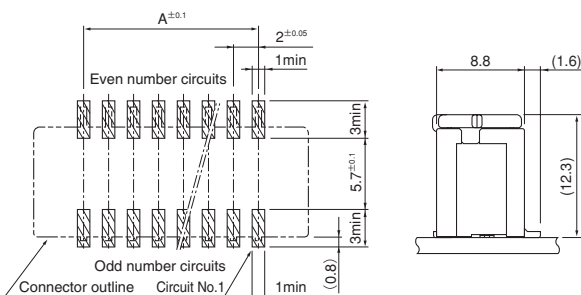


Side entry type



Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method.
The dimensions above should serve as a guideline. Contact JST for details.

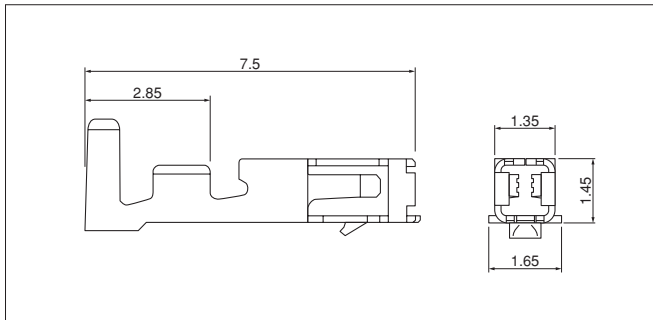
SMT type



Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

PUD CONNECTOR

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SPUD-001T-P0.5	0.13~0.33	26~22	0.95~1.5	8,000
SPUD-002T-P0.5	0.08~0.22	28~24	0.8 ~1.5	8,000

Material and Finish

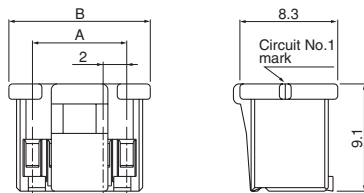
Copper alloy, tin-plated (reflow treatment)

RoHS compliance

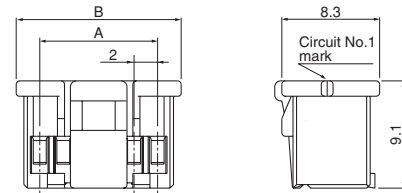
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPUD-001T-P0.5	AP-K2N	MKS-L	MK/SPUD-001-05	APLMK SPUD001-05
SPUD-002T-P0.5	AP-K2N	MKS-L	MK/SPUD-002-05	APLMK SPUD002-05

Housing

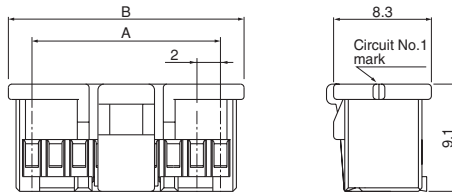
〈8, 10 circuits〉



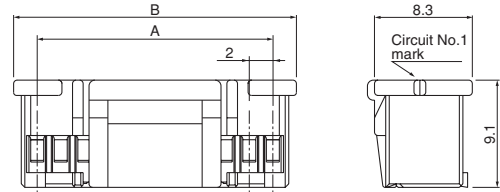
〈12, 14 circuits〉



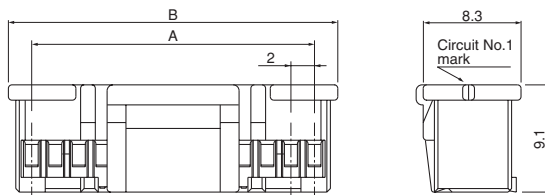
〈16, 18 circuits〉



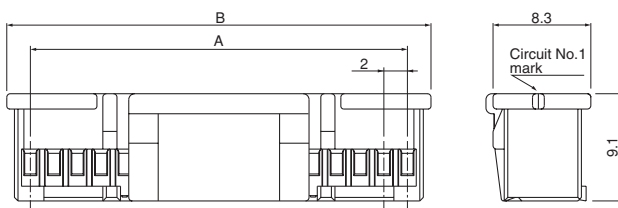
〈20, 22 circuits〉



〈24 to 28 circuits〉



〈30 to 40 circuits〉



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
8	PUDP-08V-S	6.0	10.0	1,000
10	PUDP-10V-S	8.0	12.0	1,000
12	PUDP-12V-S	10.0	14.0	1,000
14	PUDP-14V-S	12.0	16.0	1,000
16	PUDP-16V-S	14.0	18.0	1,000
18	PUDP-18V-S	16.0	20.0	1,000
20	PUDP-20V-S	18.0	22.0	1,000
22	PUDP-22V-S	20.0	24.0	1,000
24	PUDP-24V-S	22.0	26.0	1,000
26	PUDP-26V-S	24.0	28.0	1,000
28	PUDP-28V-S	26.0	30.0	500
30	PUDP-30V-S	28.0	32.0	500
32	PUDP-32V-S	30.0	34.0	500
34	PUDP-34V-S	32.0	36.0	500
36	PUDP-36V-S	34.0	38.0	500
38	PUDP-38V-S	36.0	40.0	500
40	PUDP-40V-S	38.0	42.0	500

Material

PBT, UL94V-0, natural

RoHS compliance

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **PUDP-08V-S**

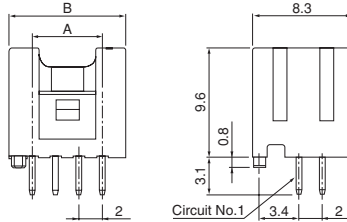
S...natural Z...ivory E...blue R...red K...black TR...tomato red
MG...moss green DPK...dark pink CB...cobalt blue
DO...dark orange DP...dark purple DH...dark gray LE...light blue

PUD CONNECTOR

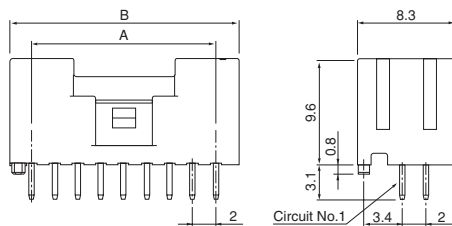
Through-hole type shrouded header

Top entry type

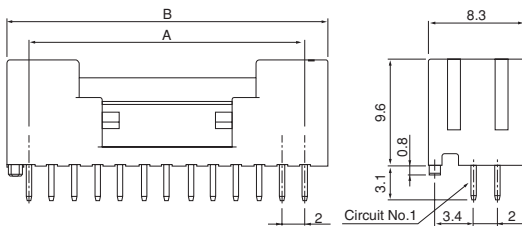
〈8, 10 circuits〉



〈12 to 18 circuits〉

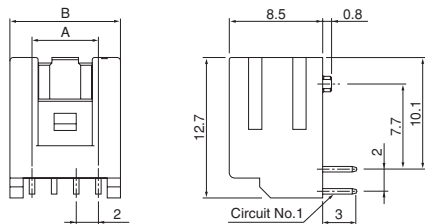


〈20 to 40 circuits〉

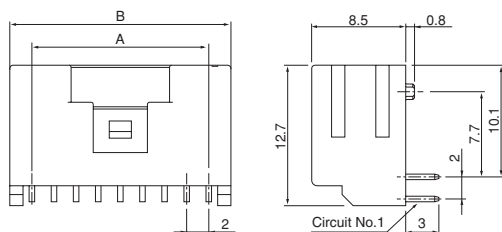


Side entry type

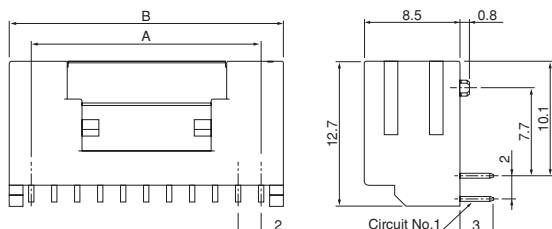
〈8, 10 circuits〉



〈12 to 18 circuits〉



〈20 to 40 circuits〉



Circuits	Model No.			Dimensions (mm)		Q'ty / box
	Top entry type	Side entry type		A	B	
8	B08B-PUDSS	B08B-PUDSS-1	S08B-PUDSS-1	6.0	10.0	3,300
10	B10B-PUDSS	B10B-PUDSS-1	S10B-PUDSS-1	8.0	12.0	2,750
12	B12B-PUDSS	B12B-PUDSS-1	S12B-PUDSS-1	10.0	14.0	2,310
14	B14B-PUDSS	B14B-PUDSS-1	S14B-PUDSS-1	12.0	16.0	1,980
16	B16B-PUDSS	B16B-PUDSS-1	S16B-PUDSS-1	14.0	18.0	1,760
18	B18B-PUDSS	B18B-PUDSS-1	S18B-PUDSS-1	16.0	20.0	1,650
20	B20B-PUDSS	B20B-PUDSS-1	S20B-PUDSS-1	18.0	22.0	1,430
22	B22B-PUDSS	B22B-PUDSS-1	S22B-PUDSS-1	20.0	24.0	1,320
24	B24B-PUDSS	B24B-PUDSS-1	S24B-PUDSS-1	22.0	26.0	1,210
26	B26B-PUDSS	B26B-PUDSS-1	S26B-PUDSS-1	24.0	28.0	1,100
28	B28B-PUDSS	B28B-PUDSS-1	S28B-PUDSS-1	26.0	30.0	1,100
30	B30B-PUDSS	B30B-PUDSS-1	S30B-PUDSS-1	28.0	32.0	990
32	B32B-PUDSS	B32B-PUDSS-1	S32B-PUDSS-1	30.0	34.0	880
34	B34B-PUDSS	B34B-PUDSS-1	S34B-PUDSS-1	32.0	36.0	880
36	B36B-PUDSS	B36B-PUDSS-1	S36B-PUDSS-1	34.0	38.0	770
38	B38B-PUDSS	B38B-PUDSS-1	S38B-PUDSS-1	36.0	40.0	770
40	B40B-PUDSS	B40B-PUDSS-1	S40B-PUDSS-1	38.0	42.0	770

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PA 66, UL94V-0, natural

RoHS compliance This product displays (LF)(SN) on a label.

Note: Color indication was changed.

Berofe change; S...natural (ivory) * After change; S...natural

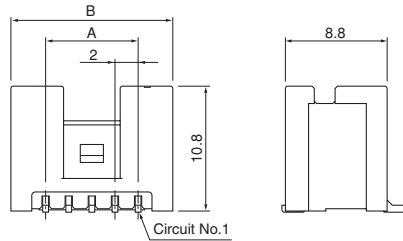
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **B08B-PUDSS-1**

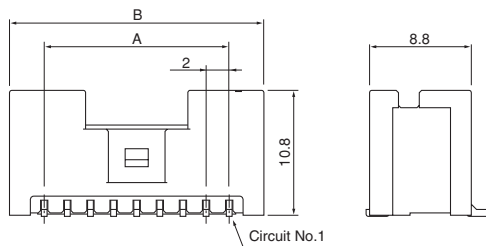
S...natural Z...ivory E...blue R...red K...black TR...tomato red
MG...moss green DPK...dark pink CB...cobalt blue
DO...dark orange DP...dark purple DH...dark gray LE...light blue

SMT type shrouded header

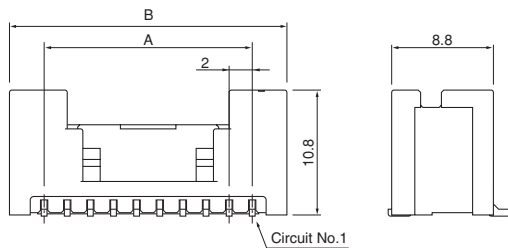
〈10 circuits〉



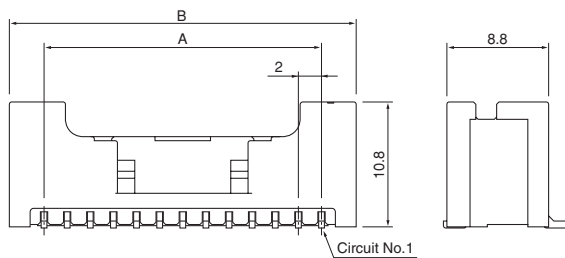
〈12 to 18 circuits〉



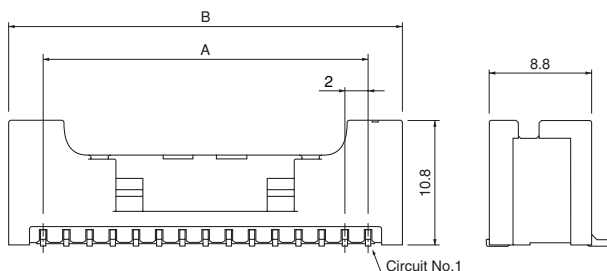
〈20, 22 circuits〉



〈24 to 28 circuits〉



〈30 to 40 circuits〉



Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
10	BM10B-PUDSS-TFC	8.0	14.0	400
12	BM12B-PUDSS-TFC	10.0	16.0	400
14	BM14B-PUDSS-TFC	12.0	18.0	400
16	BM16B-PUDSS-TFC	14.0	20.0	400
18	BM18B-PUDSS-TFC	16.0	22.0	400
20	BM20B-PUDSS-TFC	18.0	24.0	400
22	BM22B-PUDSS-TFC	20.0	26.0	400
24	BM24B-PUDSS-TFC	22.0	28.0	400
26	BM26B-PUDSS-TFC	24.0	30.0	400
28	BM28B-PUDSS-TFC	26.0	32.0	400
30	BM30B-PUDSS-TFC	28.0	34.0	400
32	BM32B-PUDSS-TFC	30.0	36.0	400
34	BM34B-PUDSS-TFC	32.0	38.0	400
36	BM36B-PUDSS-TFC	34.0	40.0	400
38	BM38B-PUDSS-TFC	36.0	42.0	400
40	BM40B-PUDSS-TFC	38.0	44.0	400

Material and Finish

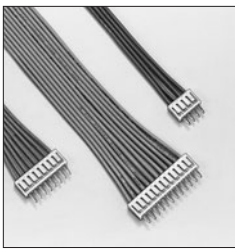
Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Polyamide, UL94V-0, natural

RoHS compliance This product displays (LF)(SN) on a label.

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

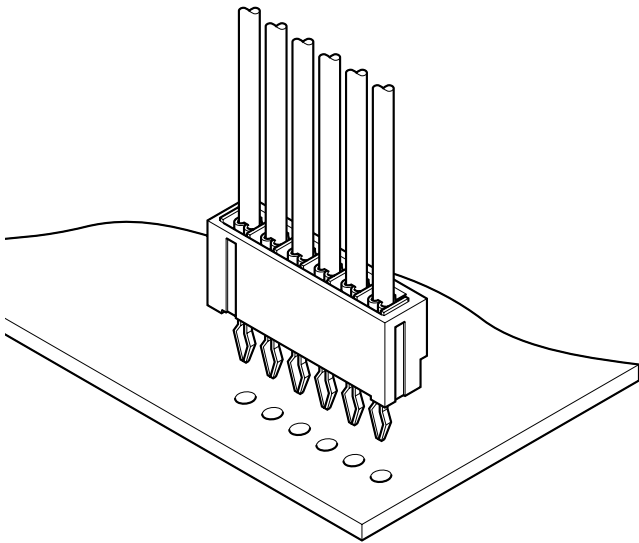
ex. **BM-10B-PUDSS-TFC**

S...natural Z...ivory K...black TR...tomato red
MG...moss green DPK...dark pink CB...cobalt blue
DO...dark orange DP...dark purple DH...dark gray LE...light blue



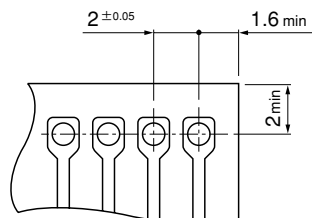
SAN CONNECTOR

2.0mm pitch/Board-in Crimp style connectors



Measuring 2.0mm in pitch, 6.0mm in mounting height, and 3.25mm in thickness, this board-in connector meets the needs for high-density mounting on printed circuit boards efficiently and economically. The connector is ideal for VCRs, car stereo systems, audio products and many other consumer oriented electronic products.

- Compact
- Housing lances
- Easy mounting onto printed circuit boards
- Two types of contacts



Note: 1. The above figure is the figure viewed from soldering side.

2. Tolerances are non-cumulative: ± 0.05 mm for all centers.

*Type A $0.8^{+0.1}_{-0.05}$ dia.

*Type B 2 to 7 circuits: 0.75 ± 0.05 dia.

8 to 15 circuits: 0.85 ± 0.05 dia.

3. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Specifications

- Current rating: 2A AC, DC (AWG #24)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to $+85^{\circ}\text{C}$
(including temperature rise in applying electrical current)
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: AWG #30 to #24
- Applicable PC board thickness:
 - Type A contact: 1.2mm, 1.6mm
 - Type B contact: 1.6mm

* Compliant with RoHS.

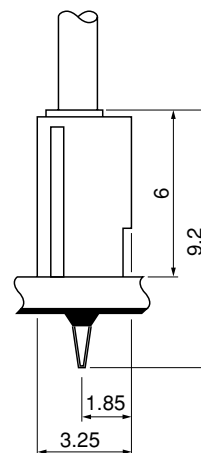
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

Standards

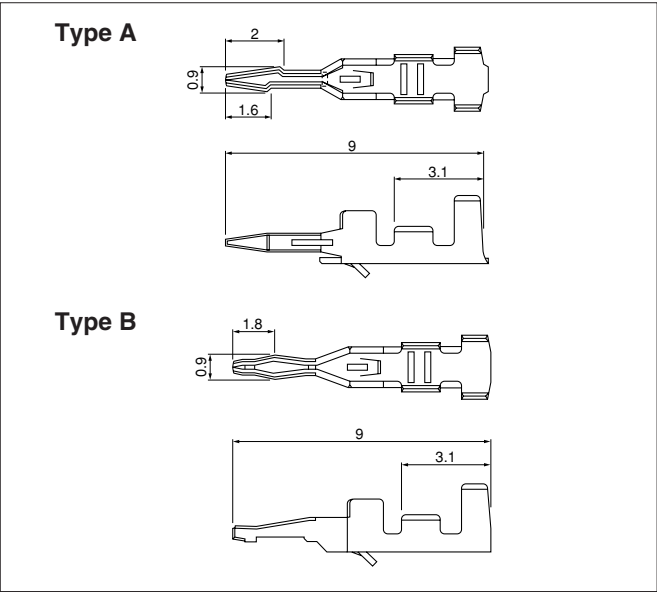
Recognized E60389

Certified LR20812



SAN CONNECTOR

Contact



Model No.	Type	Applicable wire		Insulation O.D.(mm)	Q'ty/ reel
		mm²	AWG #		
SAN-002T-0.8A	A	0.05~0.22	30~24	0.9~1.3	14,000
SAN-002T-0.8K	B				

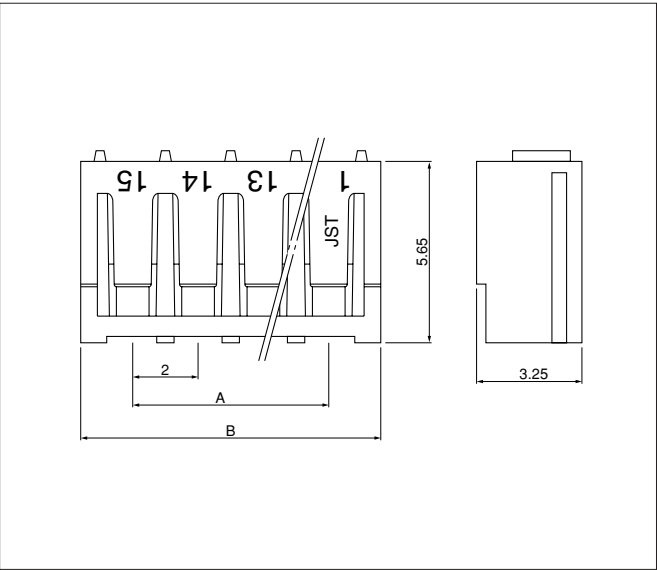
Material and Finish
Brass, tin-plated (reflow treatment)

RoHS compliance
Note: Contact JST if you require shielded wires, thin wires or other special wires.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SAN-002T-0.8A	AP-K2N	MKS-L	MK/SAN-002-08	APLMK SAN002-08
SAN-002T-0.8K		*MKS-SC	SC/SAN-002-08	APLSC SAN002-08

Note: *Strip-crimp applicator

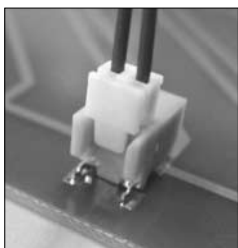
Housing



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	2P-SAN	2.0	5.2	1,000
3	3P-SAN	4.0	7.2	1,000
4	4P-SAN	6.0	9.2	1,000
5	5P-SAN	8.0	11.2	1,000
6	6P-SAN	10.0	13.2	1,000
7	7P-SAN	12.0	15.2	1,000
8	8P-SAN	14.0	17.2	1,000
9	9P-SAN	16.0	19.2	1,000
10	10P-SAN	18.0	21.2	1,000
11	11P-SAN	20.0	23.2	1,000
12	12P-SAN	22.0	25.2	1,000
13	13P-SAN	24.0	27.2	1,000
14	14P-SAN	26.0	29.2	1,000
15	15P-SAN	28.0	31.2	1,000

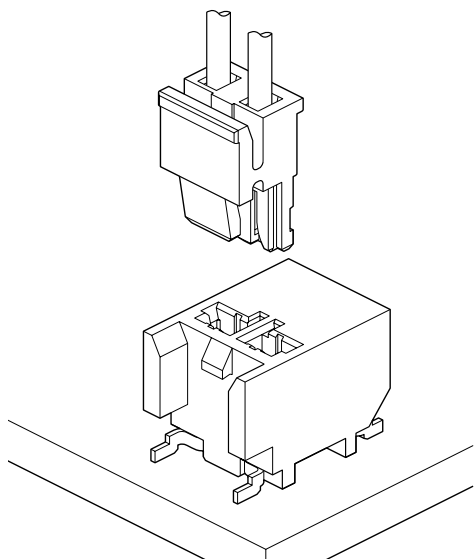
Material
PA 66, UL94V-0, yellow

RoHS compliance
<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.
ex. 2P-SAN-o
(blank)...yellow K...black W...white R...red



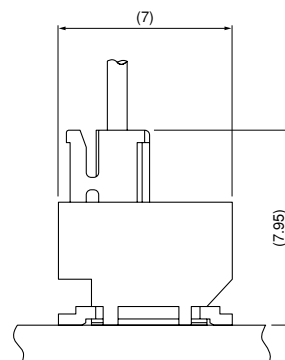
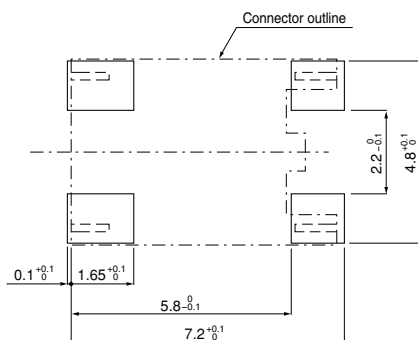
SFV CONNECTOR

2.0mm pitch/Disconnectable Crimp style connectors



This SFV connector is a wire-to-board connector for connecting power supply and PCB and withstands high voltage. It is used for power supply of LED backlight in Liquid Crystal Display Television set.

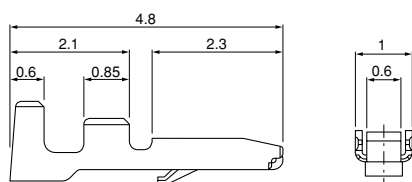
- Withstand high voltage
- Secure locking structure
- Halogen-free



Note: 1. The above figure is the figure viewed from the connector mounting side.

2. Tolerances are non-cumulative: ± 0.05 mm for all centers. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Specifications

- Current rating: 1.0 A AC, DC (AWG #28)
- Voltage rating: 300 V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 20 mΩ max.
After environmental tests/ 40 mΩ max.
- Insulation resistance: 1,000 MΩ min.
- Withstanding voltage: 1,700 VAC/minute
- Applicable wire: Conductor size/ AWG #30 to #28
Insulation O.D./ 0.8 to 0.92 mm

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

* Compliant with RoHS.

Standards

Recognized E60389

Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SGVH-002T-P0.2	0.05~0.08	30~28	0.8~0.92	23,000

Material and Finish

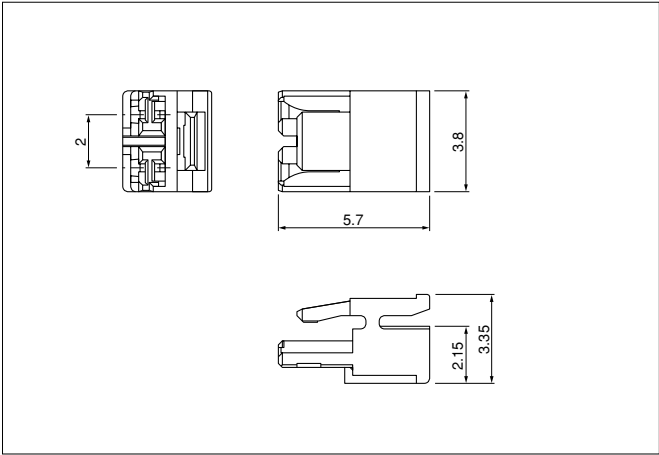
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SGVH-002T-P0.2	AP-K2N	MKS-L-10-3	MK/SSHL-002-02	APLMK SSSL002-02
		—	—	—

SFV CONNECTOR

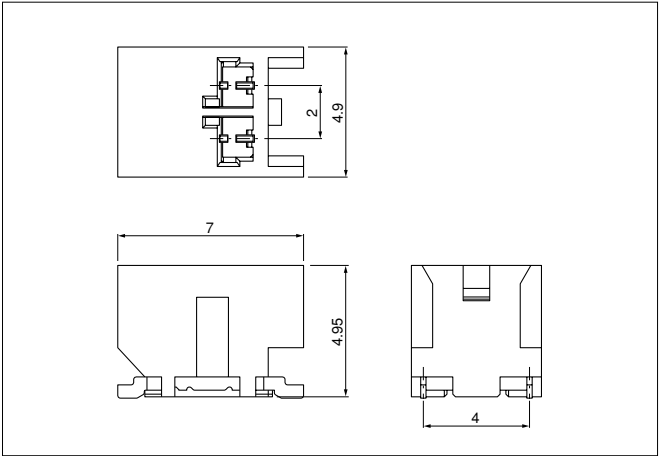
Housing



Circuits	Model No.	Q'ty / bag
2	SFVR-02V-S(HF)	2,000
Material		
PBT, UL94V-0, natural		

RoHS compliance

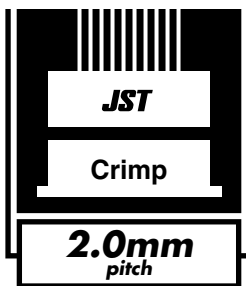
Header



Circuits	Model No.	Q'ty / reel
2	BM02B-SFVH-TF(HF)	2,000
Material and Finish		
Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment) Housing: Modified PA 6T, UL94V-0, gray		

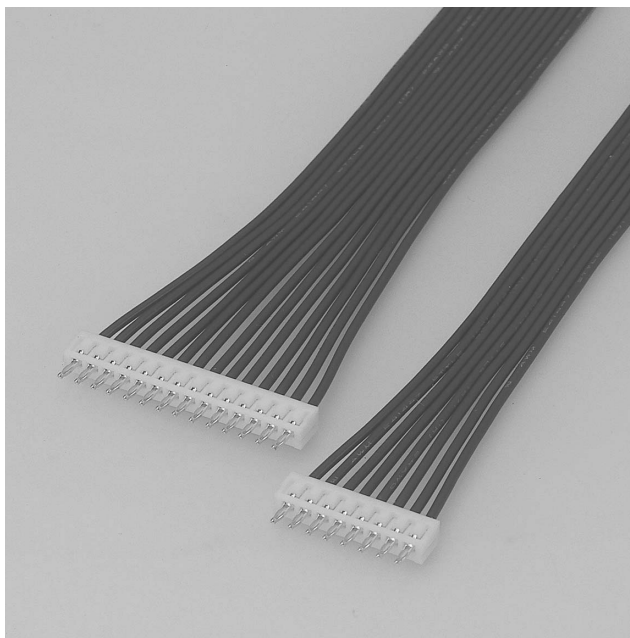
RoHS compliance

Note: The product listed above is supplied on embossed-tape.

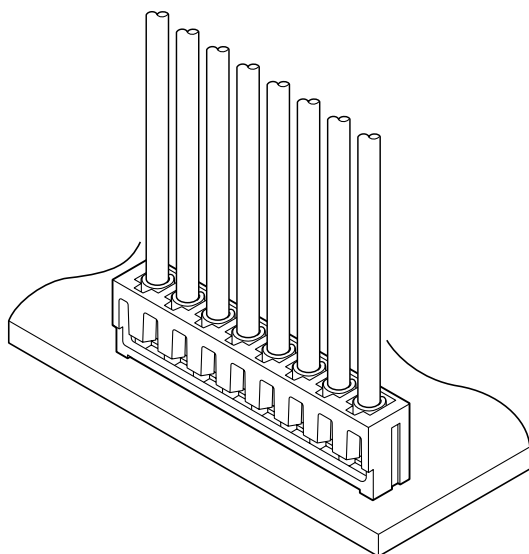


SGN CONNECTOR

Board-in Crimp style connectors



A dimension of 2.0mm pitch, 4.0mm mounting height and 2.9mm depth. This board-in type connector will enhance the mounting density of the PC board even further as well as improve rationalization and reduce the total cost of production. This product will be suitable for the internal connector of low profile equipment, such as audio equipment (including car audio) and the STB.



Features

• Low profile design

Despite its top entry style, as a result of restraining the connector height, equipment can be designed without wasting internal space.

• Surface usage on the PC board is reduced

SGN connector is much smaller in width than existing product. This will help to reduce surface usage without changing the cable.

• Reliable mounting

The spring feature of the contact part to the PC board will contribute to accommodate the connector securely even before soldering.

• One touch connection

A one-touch operation to make multiple circuit jumper connection will realize rationalization of production.

Specifications

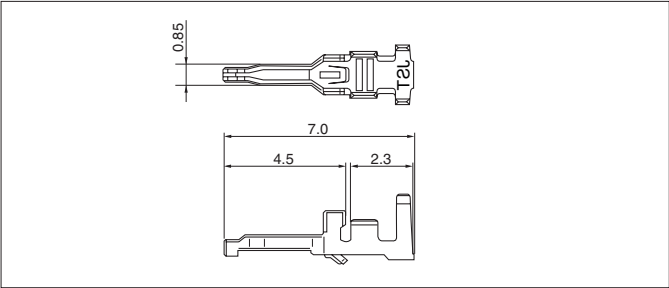
- Current rating: 2A AC, DC (AWG #24)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 650V AC/minute
- Applicable wire: AWG #28 to #24
- Applicable PC board thickness: 1.2 to 1.6mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

Recognized E60389

SGN CONNECTOR

Contact



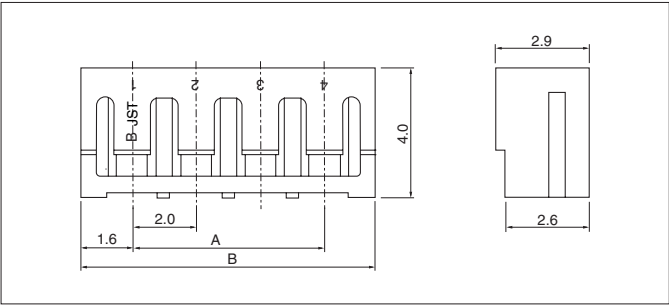
Model No.	Applicable wire			Q'ty / reel
	mm ²	AWG#	Insulation O.D. (mm)	
SGN-002T-0.8S	0.08 to 0.22	28 to 24	1.0 to 1.4	14,000

Material and Finish

Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Housing



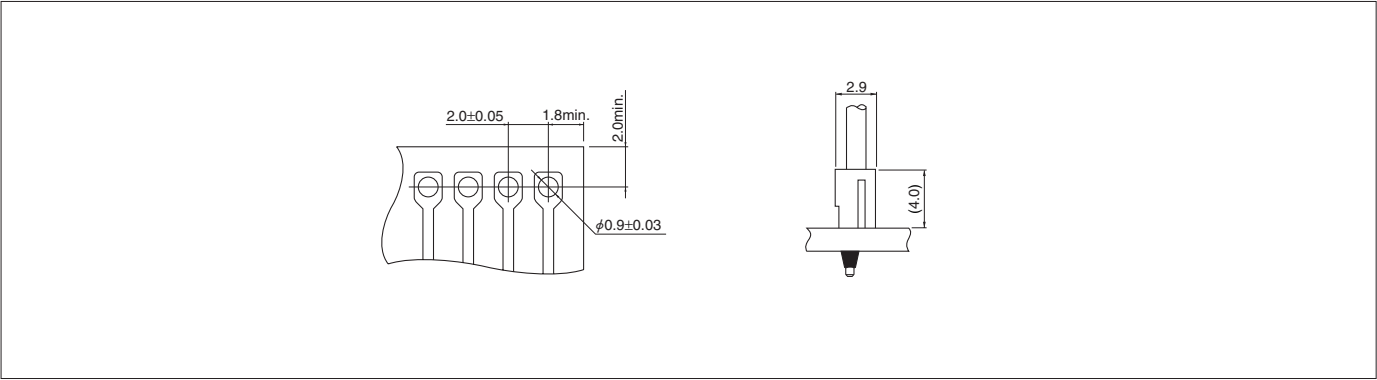
Cir- cuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
8	8P-SGN	14.0	17.2	1,000
13	13P-SGN	24.0	27.2	1,000
14	14P-SGN	26.5	29.2	1,000

Material

PA 66, UL94V-0, natural (white)

RoHS compliance

PC board layout (viewed from soldering side) and Assembly layout



Note:
1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method.
The dimensions above should serve as a guideline. Contact JST for details.

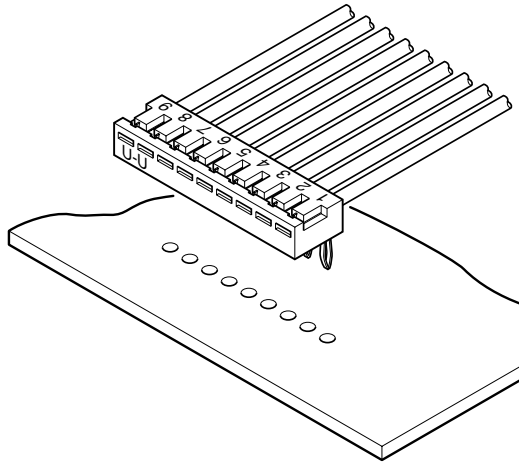
Crimping machine, Applicator

Contact	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies
SGN-002T-0.8S	AP-K2N	MKS-L	MK/SGN-002-08	APLMK SGN002-08
		—	—	—



SJN CONNECTOR

2.0mm pitch/Board-in Crimp style connectors



Side entry type board-in connector, with a mounting height of only 2.8mm and a thickness of 4.9mm.

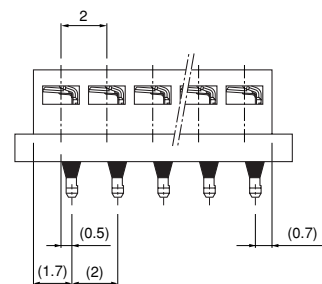
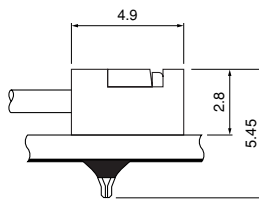
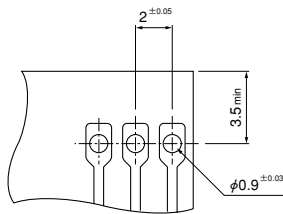
- Housing lances
- Easy mounting onto printed circuit boards

Specifications

- Current rating: 3 A AC, DC (AWG #22)
 - Voltage rating: 250 V AC, DC
 - Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
 - Insulation resistance: 1,000 MΩ min.
 - Withstanding voltage: 800 VAC/minute
 - Applicable wire: AWG #28 to #22
 - Applicable PC board thickness: 1.2 to 1.6 mm
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Compliant with RoHS.

Standards

Ⓜ Recognized E60389



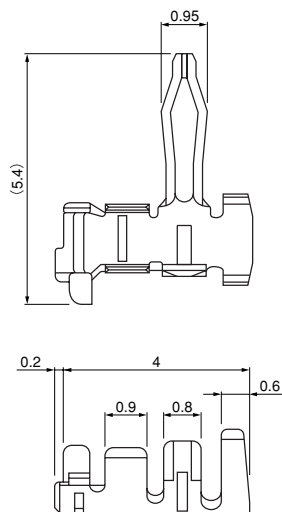
Note: 1. The above figure is the figure viewed from soldering side.

2. Tolerances are non-cumulative: ±0.05mm for all centers.

3. Hole dimensions differ according to the type of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

SJN CONNECTOR

Contact



Model No.	Applicable wire		Insulation O.D.(mm)	Q'ty/ reel
	mm ²	AWG #		
SJN-001PT-0.9	0.20~0.33	24~22	1.1~1.4	15,000
SJN-002PT-0.9	0.08~0.22	28~24	0.9~1.4	18,000

Material and Finish

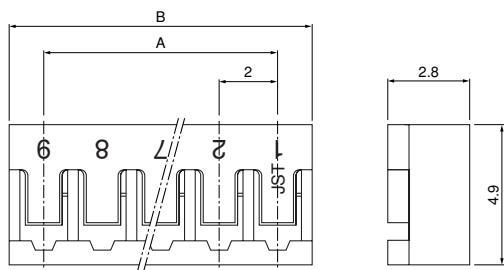
Brass, tin-plated (reflow treatment)

RoHS compliance

Note: Contact JST if you require shielded wires, thin wires or other special wires.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SJN-001PT-0.9	AP-K2N	MKS-L	MK/SJN-001-09	APLMK SJN001-09
		—	—	—
SJN-002PT-0.9	AP-K2N	MKS-L	MK/SJN-002-09	APLMK SJN002-09
		—	—	—

Housing



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	02P-SJN	2.0	4.4	2,000
3	03P-SJN	4.0	6.4	1,000
4	04P-SJN	6.0	8.4	1,000
6	06P-SJN	10.0	12.4	1,000
7	07P-SJN	12.0	14.4	1,000
8	08P-SJN	14.0	16.4	1,000
9	09P-SJN	16.0	18.4	1,000
10	10P-SJN	18.0	20.4	1,000
11	11P-SJN	20.0	22.4	5,000

Material

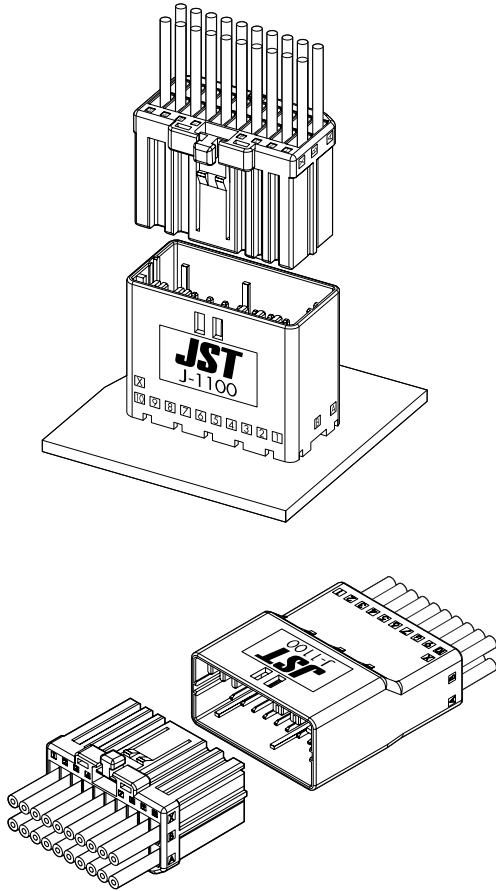
PA 66, UL94V-0, natural (white)

RoHS compliance



JFA CONNECTOR J1000 SERIES

2.2mm pitch/Disconnectable Crimp style connectors(Wire-to-board/Wire-to-wire)



It is a high reliability connector corresponding to demand of the miniaturization of electronic equipment and the wire size of AWG#18.

- Double-spring construction
- Housing lance
- Clear "click feeling"

Specifications

- Current rating: Refer to the following matrix table.
- Voltage rating: 125V AC, DC
- Temperature range: -55°C to +105°C
(including temperature rise in applying electrical current)
- Applicable wire: AWG #28 to #18 (0.08 to 0.82mm²)
(Tin-plated annealed copper wire [stranded wire])
(Insulation O.D./0.85 to 2.1mm)
- Applicable PC board thickness: 1.6mm

*Contact JST for details.

*Compliant with RoHS.

Current rating

Unit: A

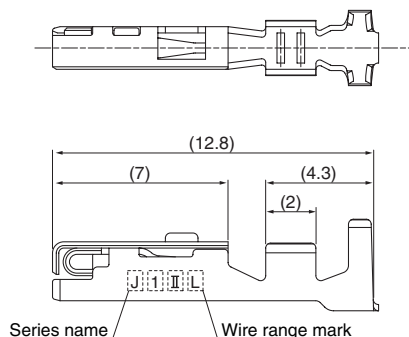
Circuits	Wire size (AWG)					
	#18	#20	#22	#24	#26	#28
1 (Note)	6.8	5.9	5.0	4.2	3.2	2.5
3	6.2	5.2	4.6	3.6	3.1	2.5
6	5.5	4.6	4.0	3.0	2.5	2.1
8	5.5	4.6	4.0	3.0	2.4	2.0
12	4.7	3.9	3.4	2.6	2.1	1.7
20	3.9	3.3	2.9	2.2	1.8	1.6

Note: Current rating value when applying only to 1-circuit of 3-circuit connector.

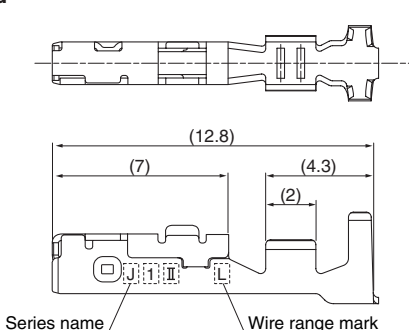
JFA CONNECTOR/J1000 SERIES

Receptacle contact

Tin-plated



Gold-plated



Strip contact Model No.	Applicable wire			Insulation O.D. (mm)	Q'ty / reel
	Nominal	mm ²	AWG#		
SF1F-002 (*) -P0.6	M	0.08~0.22	28~24	0.85~1.43	—
SF1F-21 (*) -P0.6	L	0.30~0.82	22~18	1.60~2.10	5,000

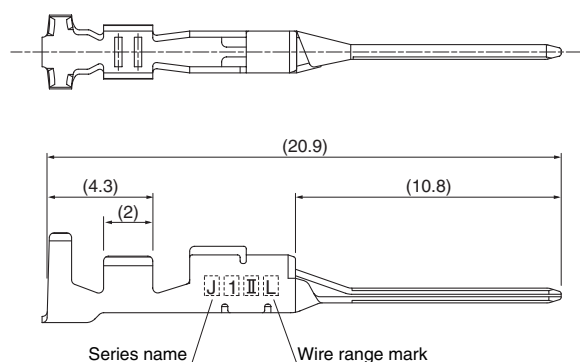
Material and Finish

Copper alloy, tin-plated, gold-plated

RoHS compliance

Note: Finish(*):TTin-plated
GC ...Gold-plated

Tab contact



Strip contact Model No.	Applicable wire			Insulation O.D. (mm)	Q'ty / reel
	Nominal	mm ²	AWG#		
SF1M-002 (*) -M0.6A	M	0.08~0.22	28~24	0.85~1.43	—
SF1M-21 (*) -M0.6A	L	0.30~0.82	22~18	1.60~2.10	5,000

Material and Finish

Copper alloy, tin-plated, gold-plated

RoHS compliance

Note: Finish(*):TTin-plated
GC ...Gold-plated

Crimping machine, Applicator

Strip contact Model No.	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies	Hand crimp tools
SF1F-002 (*) -P0.6	AP-K2N	MKS-L	MK/SF1F/M-002-06	APLMK SF1F/M002-06	Refer to page 15, 16.
SF1M-002 (*) -M0.6A		—	—	—	
SF1F-21 (*) -P0.6	AP-K2N	MKS-L	MK/SF1F/M-21-06	APLMK SF1F/M21-06	Refer to page 15, 16.
SF1M-21 (*) -M0.6A		—	—	—	

• Extraction tool for J1000 series: EJ-JFAJ1100

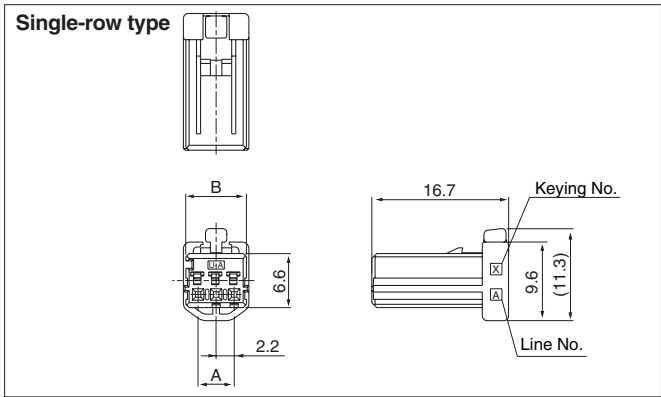
• Hand crimp tool uses the YRK series and refer to page 15, 16 of YRK series hand crimping tools for details.

Note 1. Contact JST for fully automatic crimping applicator.

2. Finish(*):TTin-plated
GC ...Gold-plated

J1000 SERIES/J1100

Receptacle housing



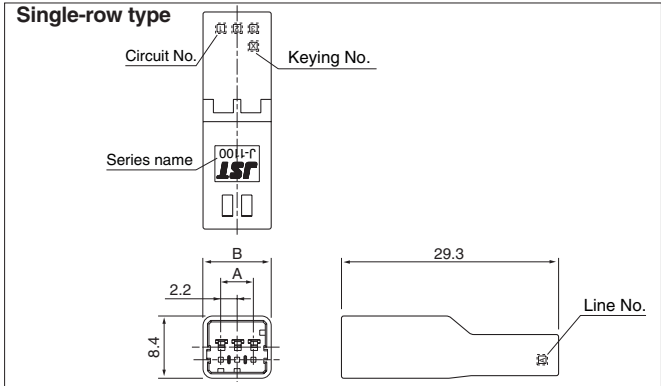
Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
3	X	J11SF-03V-KX	4.4	7.4	1,200
	Y	J11SF-03V-KY	4.4	7.4	1,200

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing



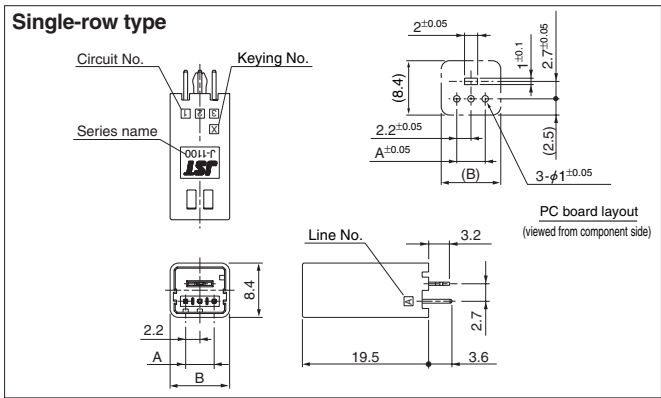
Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
3	X	J11SFM-03V-KX	4.4	9.2	500
	Y	J11SFM-03V-KY	4.4	9.2	500

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Header Top entry type (Center locking type)



Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
3	X	B03B-J11SK-(*)XR	4.4	9.2	625
	Y	B03B-J11SK-(*)YR	4.4	9.2	625

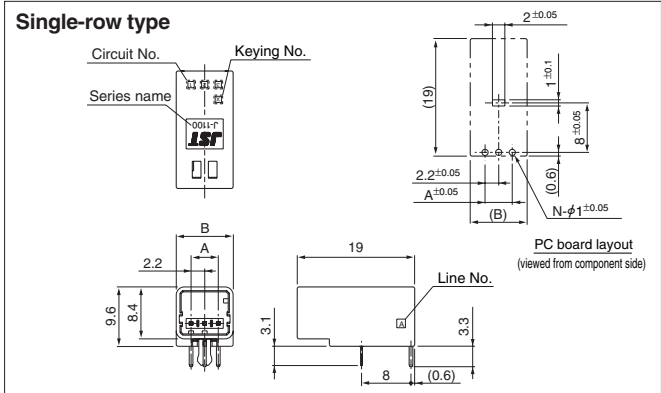
Material and Finish

Post: Copper alloy, tin-plated, gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, tin-plated

RoHS compliance

Gold-plated product displays (LF) on a label.
Note: Finish(*):TTin-plated
GW ...Gold-plated

Header Side entry type (Center locking type)



Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
3	X	S03B-J11SK-(*)XR	4.4	9.2	600
	Y	S03B-J11SK-(*)YR	4.4	9.2	600

Material and Finish

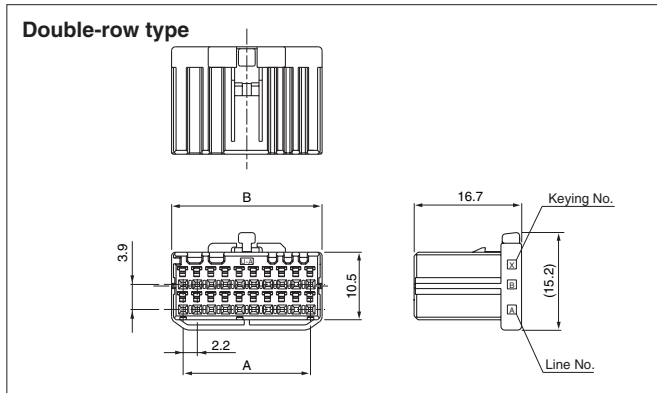
Post: Copper alloy, tin-plated, gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, tin-plated

RoHS compliance

Gold-plated product displays (LF) on a label.
Note: Finish(*):TTin-plated
GW ...Gold-plated

J1000 SERIES/J1100

Receptacle housing



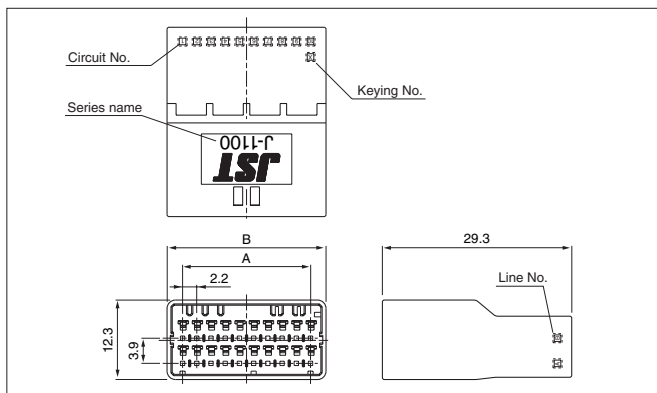
Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
6	X	J11DF-06V-KX	4.4	8.0	800
	Y	J11DF-06V-KY	4.4	8.0	800
8	X	J11DF-08V-KX	6.6	10.2	500
	Y	J11DF-08V-KY	6.6	10.2	500
12	X	J11DF-12V-KX	11.0	14.6	400
	Y	J11DF-12V-KY	11.0	14.6	400
20	X	J11DF-20V-KX	19.8	23.4	250
	Y	J11DF-20V-KY	19.8	23.4	250
22	X	J11DF-22V-KX	22.0	25.6	—
	Y	J11DF-22V-KY	22.0	25.6	—
26	X	J11DF-26V-KX	26.4	30.0	—
	Y	J11DF-26V-KY	26.4	30.0	—
30	X	J11DF-30V-KX	30.8	34.4	—
	Y	J11DF-30V-KY	30.8	34.4	—

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing



Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
6	X	J11DFM-06V-KX	4.4	9.2	400
8	X	J11DFM-08V-KX	6.6	11.4	300
12	X	J11DFM-12V-KX	11.0	15.8	200
20	X	J11DFM-20V-KX	19.8	24.6	150

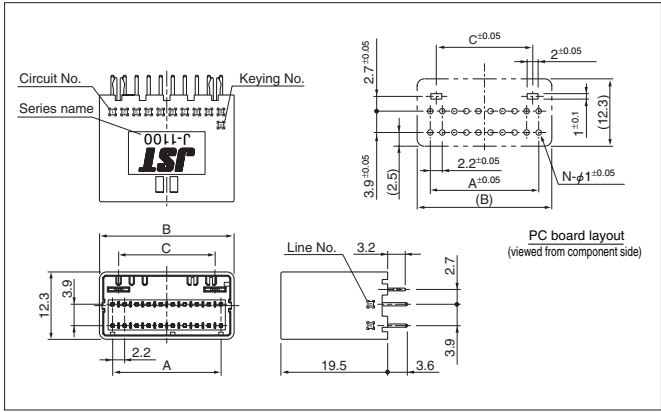
Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

J1000 SERIES/J1100

Header Top entry type (Center locking type)

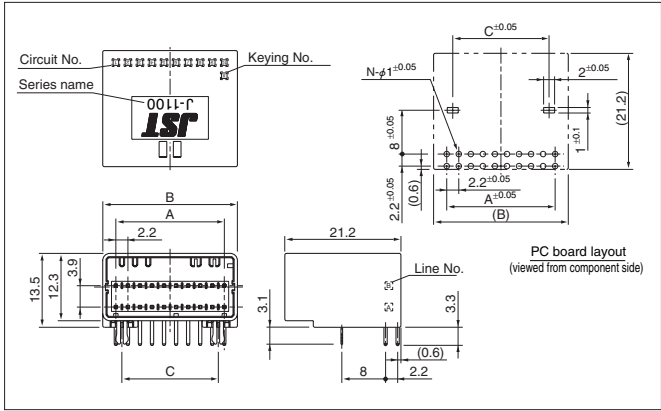


Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
6	X	B06B-J11DK-(*)XR	4.4	9.2	—	500
	Y	B06B-J11DK-(*)YR	4.4	9.2	—	500
8	X	B08B-J11DK-(*)XR	6.6	11.4	4.4	400
	Y	B08B-J11DK-(*)YR	6.6	11.4	4.4	400
12	X	B12B-J11DK-(*)XR	11.0	15.8	8.8	280
	Y	B12B-J11DK-(*)YR	11.0	15.8	8.8	280
20	X	B20B-J11DK-(*)XR	19.8	24.6	17.6	180
	Y	B20B-J11DK-(*)YR	19.8	24.6	17.6	180
22	X	B22B-J11DK-(*)XR	22.0	26.8	19.8	—
	Y	B22B-J11DK-(*)YR	22.0	26.8	19.8	—
26	X	B26B-J11DK-(*)XR	26.4	31.2	24.2	—
	Y	B26B-J11DK-(*)YR	26.4	31.2	24.2	—
30	X	B30B-J11DK-(*)XR	30.8	35.6	28.6	—
	Y	B30B-J11DK-(*)YR	30.8	35.6	28.6	—

Material and Finish						
Post: Copper alloy, tin-plated, gold-plated						
Housing: Glass-filled PBT, UL94V-0, black						
Reinforcing metal fixture: Copper alloy, tin-plated						

RoHS compliance Gold-plated product displays (LF) on a label.
Note: Finish(*):TTin-plated
GW ...Gold-plated

Header Side entry type (Center locking type)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
6	X	S06B-J11DK-(*)XR	4.4	9.2	—	375
	Y	S06B-J11DK-(*)YR	4.4	9.2	—	375
8	X	S08B-J11DK-(*)XR	6.6	11.4	—	300
	Y	S08B-J11DK-(*)YR	6.6	11.4	—	300
12	X	S12B-J11DK-(*)XR	11.0	15.8	8.8	225
	Y	S12B-J11DK-(*)YR	11.0	15.8	8.8	225
20	X	S20B-J11DK-(*)XR	19.8	24.6	17.6	135
	Y	S20B-J11DK-(*)YR	19.8	24.6	17.6	135

Material and Finish						
Post: Copper alloy, tin-plated, gold-plated						
Housing: Glass-filled PBT, UL94V-0, black						
Reinforcing metal fixture: Copper alloy, tin-plated						

RoHS compliance Gold-plated product displays (LF) on a label.
Note: Finish(*):TTin-plated
GW ...Gold-plated

JFA CONNECTOR/J1000 SERIES

Model number identification

Receptacle contact

S F1 F - 21 T - P 0.6

Form: S...Strip form

Series name

Kind of terminal: F...Receptacle contact

Applicable wire: 002...AWG#28 ~ AWG#24
21...AWG#22 ~ AWG#18

Surface finish: T...Tin-plated, GC...Gold-plated

Material: P...Copper alloy

Terminal size

Tab contact

S F1 M - 21 T - M 0.6 A

Form: S...Strip form

Series name

Kind of terminal: M...Tab contact

Applicable wire: 002...AWG#28 ~ AWG#24
21...AWG#22 ~ AWG#18

Surface finish: T...Tin-plated, GC...Gold-plated

Material: M...Copper alloy

Terminal size

Auxiliary mark

Receptacle housing

J11 DF - 06 V - K X

Series name

Type of connector: SF...Single-row type
DF...Double-row type

No. of circuits: 3, 6, 8, 12, 20

Flammability: V...UL94V-0

Color indication: K...Black

Keying: X...X-Keying, Y...Y-Keying

Tab housing

J11 DFM - 06 V - K X

Series name

Type of connector: SFM...Single-row type
DFM...Double-row type

No. of circuits: 3, 6, 8, 12, 20

Flammability: V...UL94V-0

Color indication: K...Black

Keying: X...X-Keying

Header

B 06 B - J11 D K - T X R

PC board mounting direction:
B...Top entry type, S...Side entry type

No. of circuits: 3, 6, 8, 12, 20

Product name: Header

Series name

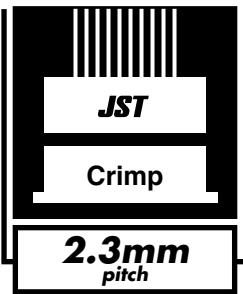
Rows: S...Single-row, D...Double-row

Color indication: K...Black

Surface finish: T...Tin-plated, GW...Gold-plated

Keying: X...X-Keying, Y...Y-Keying

Packaging form: R...Tray, M...Magazine stick

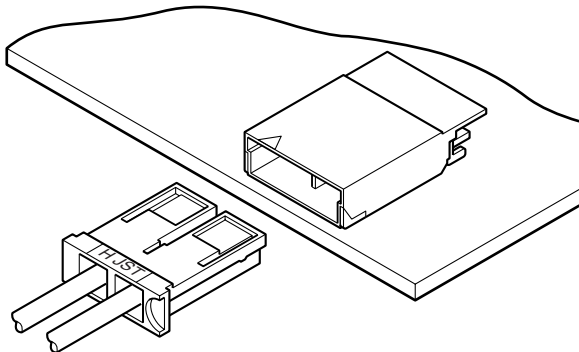


BHL CONNECTOR

Disconnectable Crimp style connectors



Low profile connector with high withstanding voltage, designed for connecting liquid crystal display backlight lamps to their starters. The BHL connector is 2.8mm thick, so the mounting height is only 3.0mm.



Features

• Contact lances

Contacts are secured in the housing by their spring action, thus fully shrouded. This helps improve the withstanding voltage.

• Anti-misinsertion housing

The housing has mis-insertion preventive guides on both sides. Housing locks prevent release of the housing that might result from vibration or shock.

Specifications

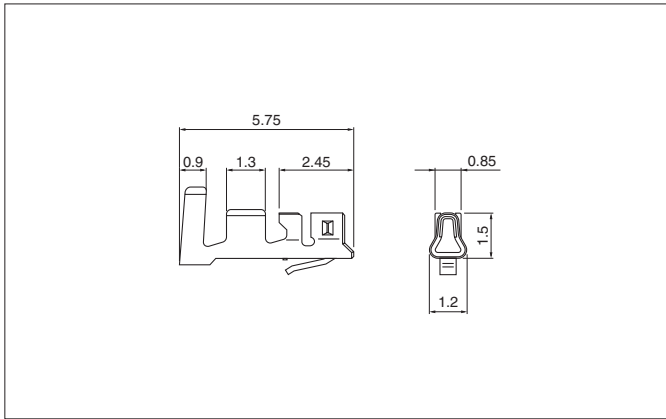
- Current rating: 1.0A AC, DC (AWG #24)
- Voltage rating: 1,400V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 3,800V AC/minute
- Applicable wire: Conductor/AWG #28 to #24
Insulation O. D./0.9 to 1.7mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

Recognized E60389

Certified LR20812

Contact



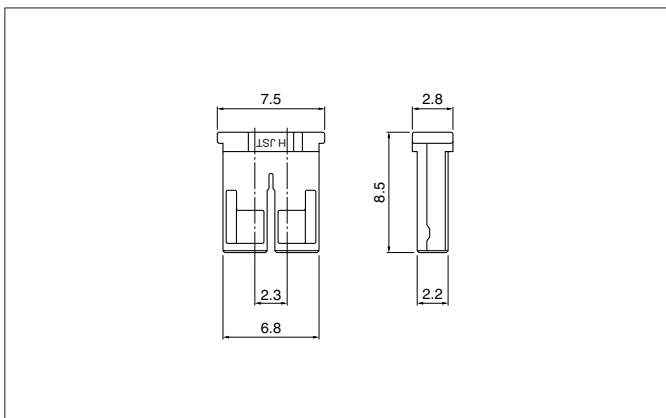
Model No.	Applicable wire			Q'ty / reel
	mm ²	AWG #	Insulation O.D. (mm)	
SBHL-002T-P0.5	0.08 to 0.22	28 to 24	0.9 to 1.7	10,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Housing



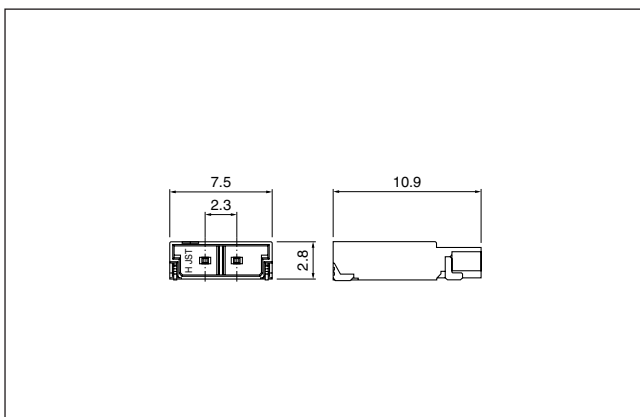
Circuits	Model No.	Q'ty / bag
2	BHLR-02VS	1,000

Material

Thermoplastic resin, UL94V-0, black

RoHS compliance

Shrouded header



Circuits	Model No.	Q'ty / reel
2	SM02B-BHLS-1-TB	1,500

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

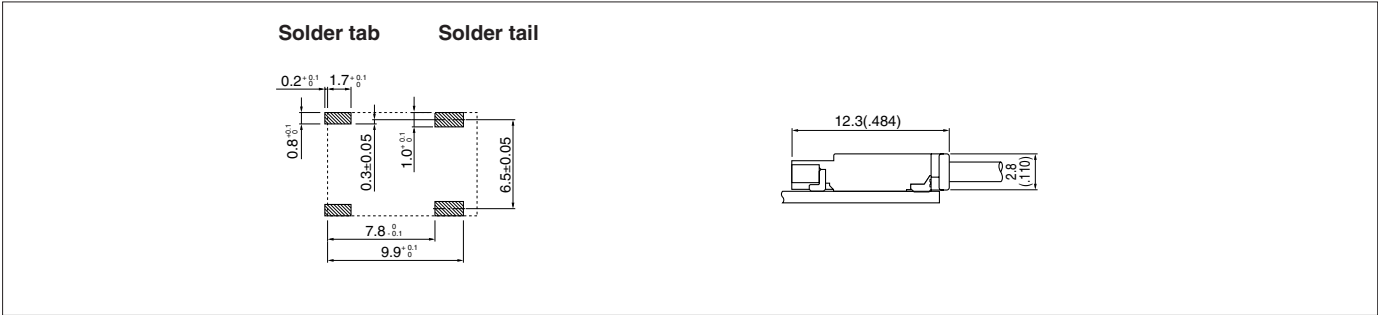
Wafer: Heat resisting resin, UL94V-0, natural (ivory)

Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.
Note: The products listed above are supplied on embossed-tape.

BHL CONNECTOR

PC board layout (viewed from component side) and Assembly layout



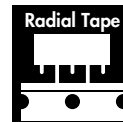
Note:
1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method.
The dimensions above should serve as a guideline. Contact JST for details.

Crimping machine, Applicator

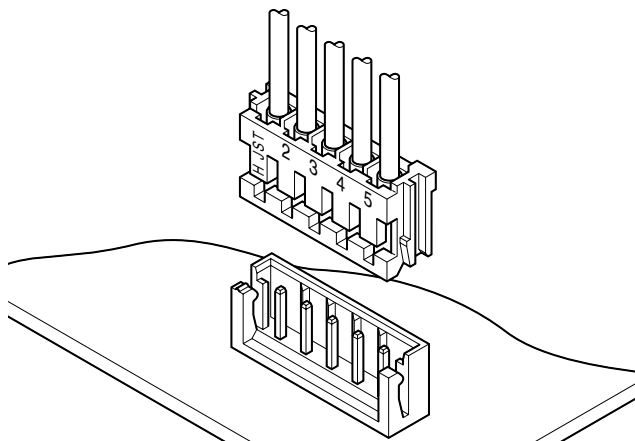
Contact	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies
SBHL-002T-P0.5	AP-K2N	MKS-L	MK/SBHL-002-05	APLMK SBHL002-05
		—	—	—



EH CONNECTOR



2.5mm pitch/Disconnectable Crimp style connectors



This, the thinnest, 2.5mm pitch connector, is 8.1mm in height after mounting and 3.8mm in width. It is designed to meet the demand for the high-density connection of internal wires to printed circuit boards. It is compact, highly reliable and low in cost.

- Compact and slim
- Highly reliable contact
- Polarizing guides
- Easy and effective crimping

Specifications

- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 10m Ω max.
After environmental testing/ 20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: AWG #32 to #22
- Applicable PC board thickness: 0.8 to 1.6mm

- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

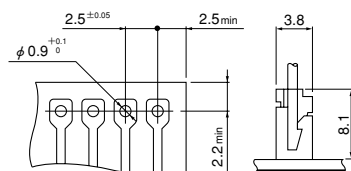
Standards

Recognized E60389

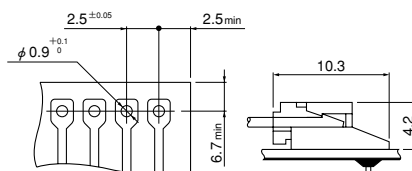
Certified LR20812

R50082349

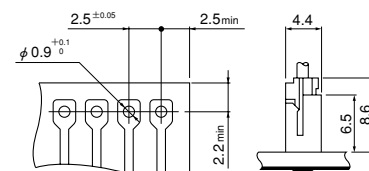
Top entry type



Side entry type



Radial-tape

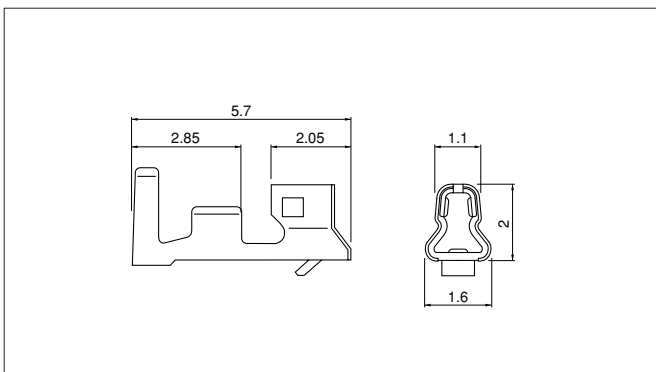


Note: 1. The above figure is the figure viewed from soldering side.

2. Tolerances are non-cumulative: ±0.05mm for all centers.

3. Hole dimension differ according to the kind of PC board and piercing method. If PC boards made of hard material are used, the hole dimensions should be larger. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SEH-001T-P0.6	0.05 ~0.33	30~22	1.0~1.9	9,000
*SEH-001T-P0.6L	0.13 ~0.33	26~22	0.9~1.9	
*SEH-002T-P0.6L	0.05 ~0.13	30~26	0.9~1.3	
*SEH-003T-P0.6L	0.032~0.08	32~28	0.5~1.1	10,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Note: 1. Contact JST for gold-plated products.

2. SEH-00()T-P0.6L is low-insertion force type contact, for easier insertion/withdrawal, which would be less resistant to the vibration. The crimp height is different from the standard contact.

3. *Marked products are not TÜV approved.

4. Contact JST for details.

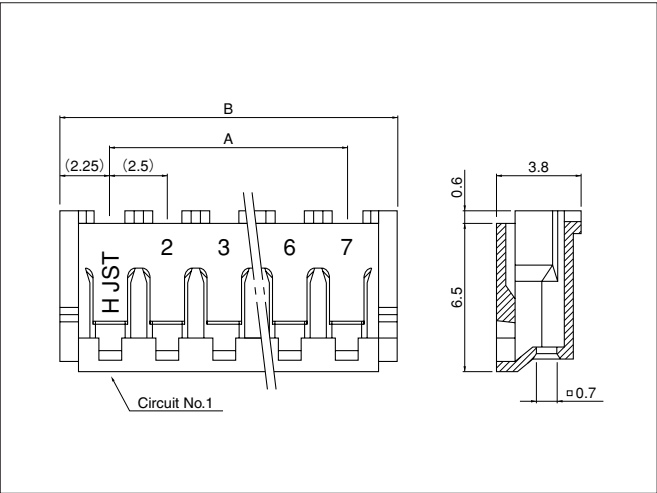
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SEH-001T-P0.6	AP-K2N	MKS-L	MK/SEH-001-06	APLMK SEH001-06
		*MKS-SC	SC/SEH-001-06	APLSC SEH001-06
SEH-001T-P0.6L		MKS-L	MK/SEH-001-06L	APLMK SEH001-06L
		*MKS-SC	SC/SEH-001-06L	APLSC SEH001-06L

Note: *Strip-crimp applicator

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SEH-002T-P0.6L	AP-K2N	MKS-L	MK/SEH-002-06L	APLMK SEH002-06L
		—	—	—
SEH-003T-P0.6L		MKS-L-10	MK/SEH-003-06L	APLMK SEH003-06L
		*MKS-SC-10	SC/SEH-003-06L	APLSC SEH003-06L

EH CONNECTOR

Housing



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	EHR-2	2.5	7.0	1,000
3	EHR-3	5.0	9.5	1,000
4	EHR-4	7.5	12.0	1,000
5	EHR-5	10.0	14.5	1,000
6	EHR-6	12.5	17.0	1,000
7	EHR-7	15.0	19.5	1,000
8	EHR-8	17.5	22.0	1,000
9	EHR-9	20.0	24.5	1,000
10	EHR-10	22.5	27.0	1,000
11	EHR-11	25.0	29.5	1,000
12	EHR-12	27.5	32.0	1,000
13	EHR-13	30.0	34.5	1,000
14	EHR-14	32.5	37.0	1,000
15	EHR-15	35.0	39.5	1,000

Material

PA 66, UL94V-0, natural (white)

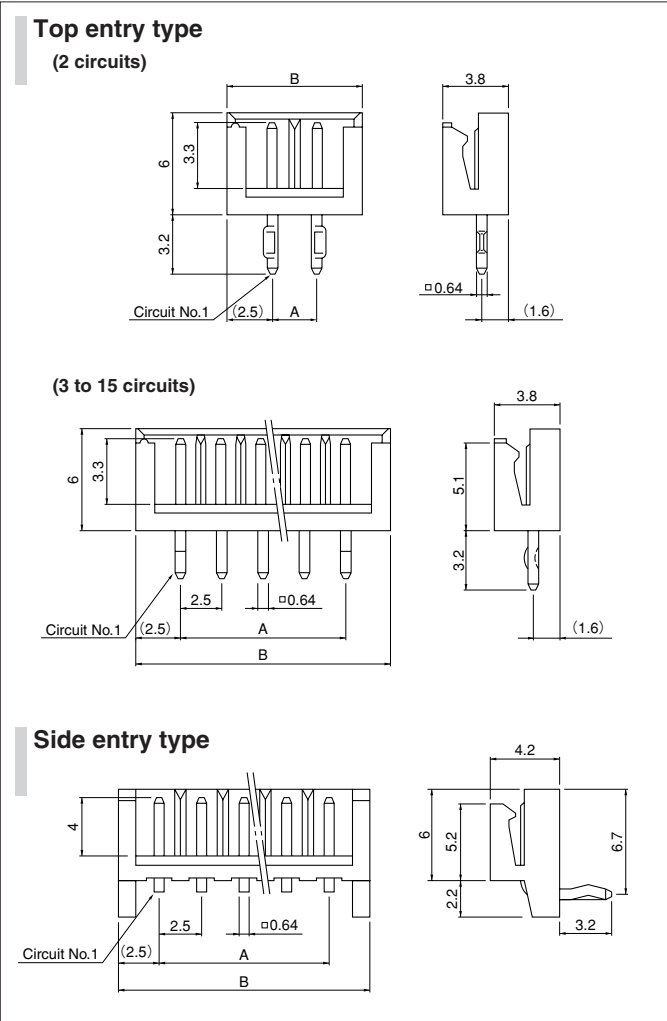
RoHS compliance

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **EHR-2-oo**
(blank)...natural (white)
K...black R...red TR...tomato red E...blue Y...yellow
L...lemon yellow M...green O...orange N...brown PL...purple
PK...pink H...gray LE...light blue FY...vivid yellow

Shrouded header

The shrouded headers are interchangeable with those of the HR crimp style and insulation displacement connectors.



Circuits	Model No.		Dimensions (mm)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
2	B2B-EH-A	S2B-EH	2.5	7.5	1,000	1,000
3	B3B-EH-A	S3B-EH	5.0	10.0	1,000	1,000
4	B4B-EH-A	S4B-EH	7.5	12.5	1,000	1,000
5	B5B-EH-A	S5B-EH	10.0	15.0	1,000	1,000
6	B6B-EH-A	S6B-EH	12.5	17.5	1,000	500
7	B7B-EH-A	S7B-EH	15.0	20.0	1,000	500
8	B8B-EH-A	S8B-EH	17.5	22.5	500	500
9	B9B-EH-A	S9B-EH	20.0	25.0	500	500
10	B10B-EH-A	S10B-EH	22.5	27.5	500	500
11	B11B-EH-A	S11B-EH	25.0	30.0	500	250
12	B12B-EH-A	S12B-EH	27.5	32.5	500	250
13	B13B-EH-A	S13B-EH	30.0	35.0	250	250
14	B14B-EH-A	S14B-EH	32.5	37.5	250	250
15	B15B-EH-A	S15B-EH	35.0	40.0	250	250

Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, natural (white)

RoHS compliance This product displays (LF)(SN) on a label.
Note: Also available and identified as model BxxB-EH is a top entry type having a post extension length of 4.0mm

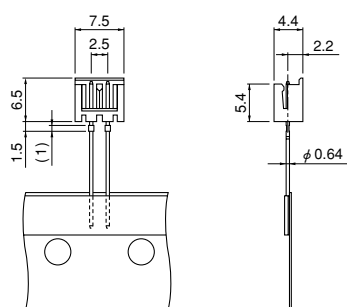
<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

<Top entry type>
ex. **B2B-EH-A-oo**
(blank)...natural (white)
K...black R...red E...blue Y...yellow M...green

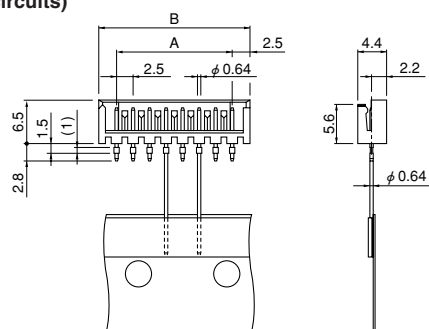
<Side entry type>
ex. **S2B-EH-oo**
(blank)...natural (white)
K...black R...red TR...tomato red E...blue Y...yellow
L...lemon yellow M...green O...orange N...brown P...purple
PK...pink H...gray LE...light blue FY...vivid yellow

Shrouded header on radial-tape

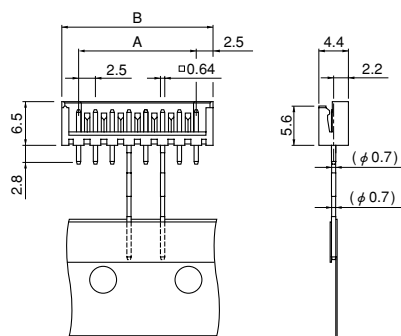
● TS type (2 circuits)



(3 to 8 circuits)



● TV4 type



Circuits	Model No.		Dimensions (mm)		Q'ty / box
	TS type	TV4 type	A	B	
2	B2B-EH-TS	—	—	—	1,400
3	B3B-EH-TS	B3B-EH-TV4	5.0	10.0	1,400
4	B4B-EH-TS	B4B-EH-TV4	7.5	12.5	700
5	B5B-EH-TS	B5B-EH-TV4	10.0	15.0	700
6	B6B-EH-TS	B6B-EH-TV4	12.5	17.5	700
7	B7B-EH-TS	B7B-EH-TV4	15.0	20.0	700
8	B8B-EH-TS	B8B-EH-TV4	17.5	22.5	700

Material and Finish

Pin/Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, natural (white)

RoHS compliance This product displays (LF)(SN) on a label.

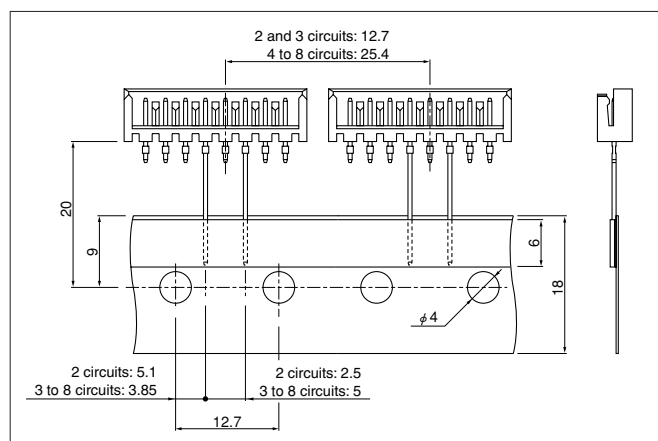
<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **B2B-EH-TS-oo**

(blank)...natural (white)

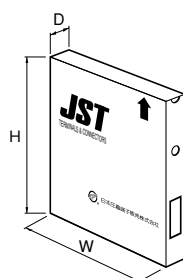
K...black R...red E...blue Y...yellow M...green N...brown

Taping specifications

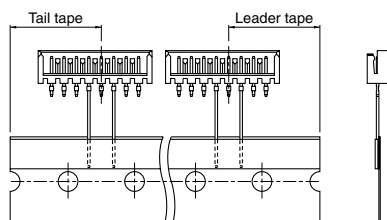


Note: Conforms to JIC C 0806 of "Tape packaging of components with unidirectional leads on continuous tapes".

Packaging specifications



Distance between the end of the tape and the first connector's center line (either end)



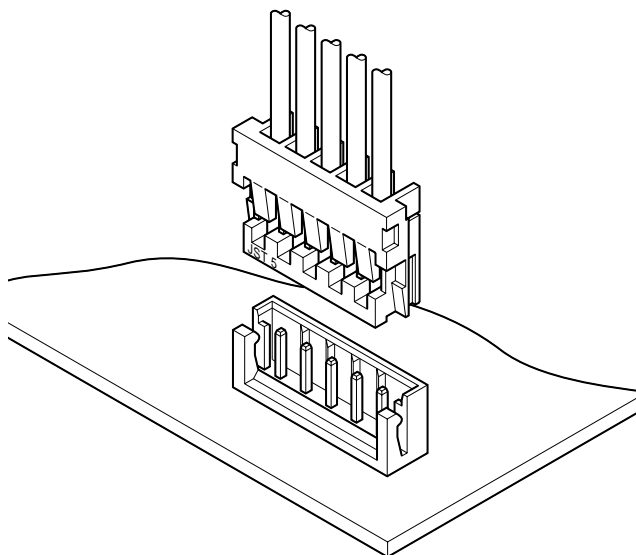
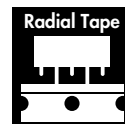
Package type		Flat pack (zigzag folded)
Distance between folds		24 indexing holes per fold (304.8mm)
Box size		316(W)×45(D)×330(H)mm
Distance between the end of the tape and the first connector's center line (either end)		19.05mm
Quantity	2, 3 circuits	1,400 pcs. / box
	4~8 circuits	700 pcs. / box

Note: Products of different packaging specifications are also available. Contact JST for details.



HR CONNECTOR

2.5mm pitch/Disconnectable Crimp style connectors



- **Thin design**
- **High reliability**
- **Interchangeability**

Specifications

- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,000V AC/minute
- Applicable wire: AWG #26 to #22
- Applicable PC board thickness: 0.8 to 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

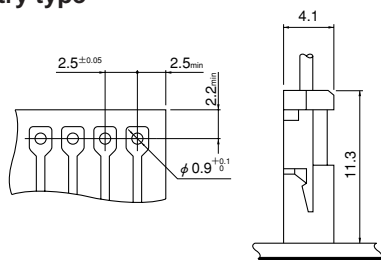
Standards

Recognized E60389

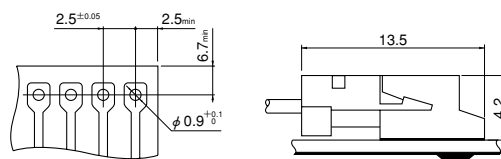
Certified LR20812

PC board layout (viewed from soldering side) and Assembly layout

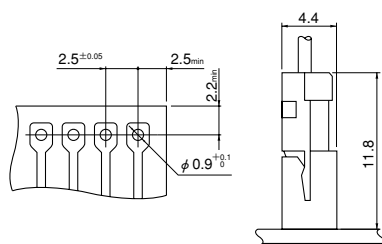
Top entry type



Side entry type



Top entry type on radial-tape

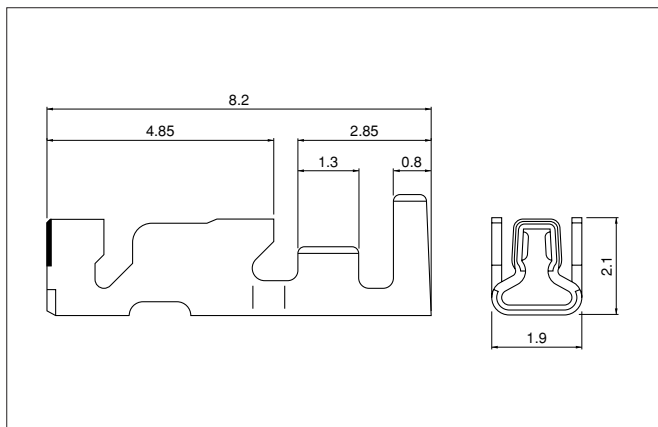


Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.

2. Hole dimension differ according to the kind of PC board and piercing method. If PC boards made of hard material are used, the hole dimensions should be larger. The dimensions above should serve as a guideline. Contact JST for details.

HR CONNECTOR

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SHR-001T-P0.6	0.13~0.33	26~22	1.3~1.7	9,000

Material and Finish

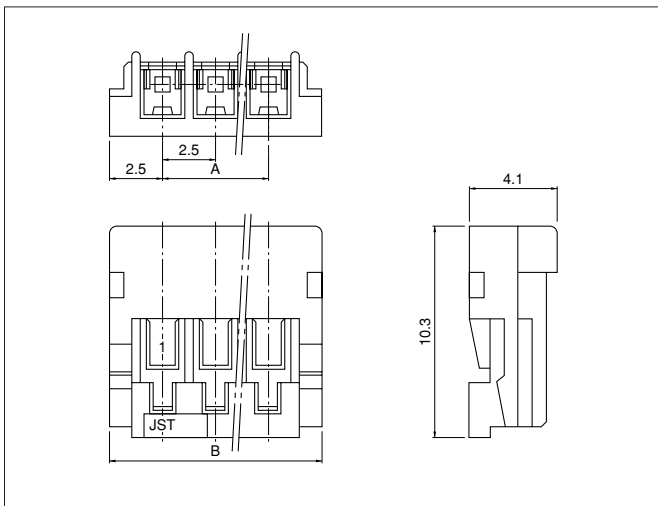
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SHR-001T-P0.6	AP-K2N	MKS-L	MK/SHR/MR-001-06	APLMK SHR/MR001-06
		*MKS-SC	SC/SHR/MR-001-06	APLSC SHR/MR001-06

Note:*Strip-crimp applicator

Housing



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	HRP-02-S	2.5	7.5	2,000
3	HRP-03-S	5.0	10.0	2,000
4	HRP-04-S	7.5	12.5	1,000
5	HRP-05-S	10.0	15.0	1,000
6	HRP-06-S	12.5	17.5	1,000
7	HRP-07-S	15.0	20.0	500
8	HRP-08-S	17.5	22.5	500
9	HRP-09-S	20.0	25.0	500
10	HRP-10-S	22.5	27.5	500
11	HRP-11-S	25.0	30.0	500
12	HRP-12-S	27.5	32.5	500
13	HRP-13-S	30.0	35.0	250

Material

PA 66, UL94V-0, natural (white)

RoHS compliance

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **HRP-02-S**

S...natural (white)

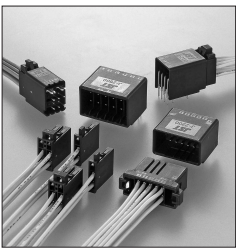
K...black R...red TR...tomato red E...blue

L...lemon yellow M...green N...brown O...orange P...purple

PK...pink LE...light blue Y...yellow FY...vivid yellow H...gray

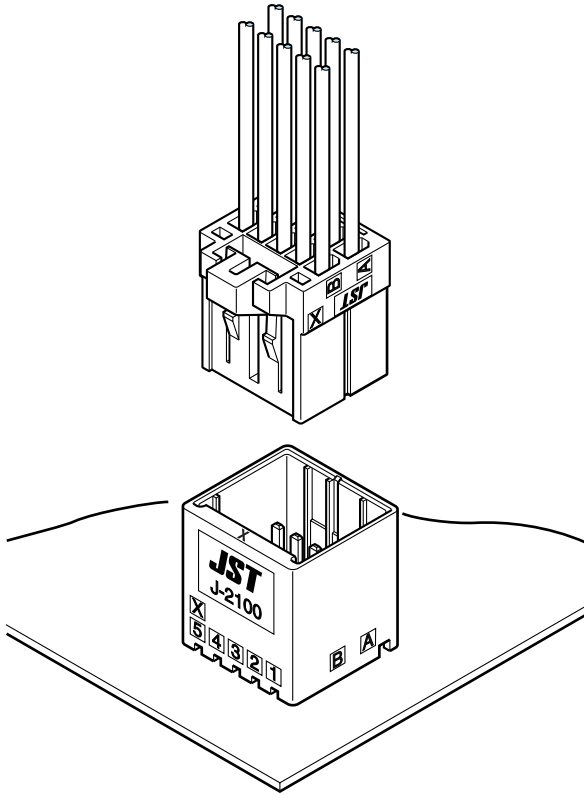
Shrouded header

The shrouded headers are interchangeable with those of the EH crimp style and HR insulation displacement connectors.



JFA CONNECTOR J2000 SERIES

2.5mm pitch/Disconnectable Crimp style connectors(Wire-to-board/Wire-to-wire)



2.5mm pitch connector for miniaturization of electronic equipment.

Center locking or side locking options can be used depending on the required application.

Receptacle contacts are designed to be common with all JFA connector J2000 series.

- Double-spring construction
- 2 kinds of locking method
- Housing lance
- Clear "click feeling"

Specifications

- Current rating: 4.6A max. AC, DC (3 circuits/AWG #20)
- Voltage rating: 250V AC, DC
- Temperature range: -55°C to +105°C
(including temperature rise in applying electrical current)
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #28 to #20 (0.08 to 0.75mm²)
- Applicable PC board thickness: 1.6mm

*Contact JST for details.

*Compliant with RoHS.

Current rating

Unit: A

Circuits	Wire size (AWG)				
	#20	#22	#24	#26	#28
3	4.6	4.4	3.4	3.0	2.4
4	4.5	4.3	3.2	2.8	2.3
6	4.3	4.1	2.8	2.6	2.1
8	4.1	3.6	2.6	2.3	1.9
10	3.9	3.4	2.5	2.2	1.8
12	3.6	3.1	2.4	2.0	1.6
16	3.2	2.8	2.2	1.8	1.4
20	2.9	2.5	2.1	1.7	1.3

Standards

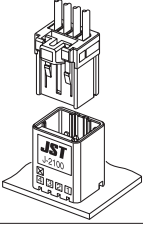
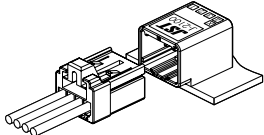
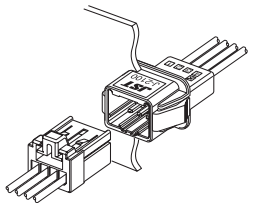
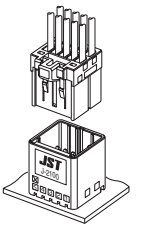
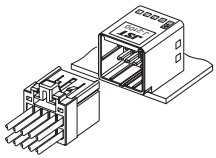
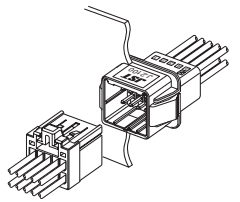
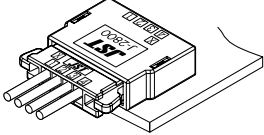
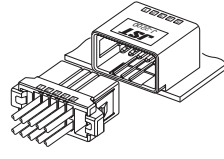
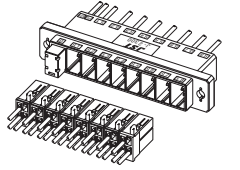
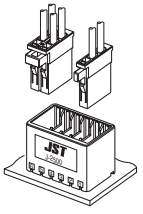
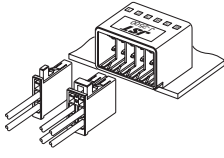
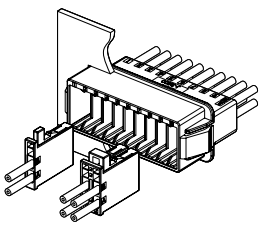
Recognized E60389

Certified LR20812

JFA CONNECTOR/J2000 SERIES

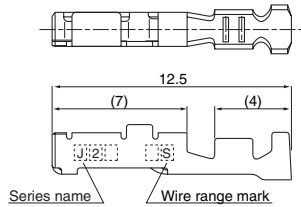
List of J2000 series products

2.5mm pitch / Voltage rating 250V AC, DC

Type		Wire-to-board		Wire-to-wire
		Top entry type	Side entry type	Panel mounting type
Center locking type	J2100 Single-row type			
	Circuits	3, 4	3, 4	3, 4
	J2100 Double-row type			
	Circuits	6, 8, 10, 12, 16, 20	6, 8, 10, 12, 16, 20	6, 8, 10, 12, 16, 20
Side locking type	J2800 Single-row type			
	Circuits		4	
	J2200 Double-row type			
	Circuits		10	
Common type for sensors	J2300			
	Circuits			Output 10 / Input 24
Module type	J2500			
	Circuits	12, 20	12, 20	20

JFA CONNECTOR/J2000 SERIES

Receptacle contact



Strip contact Model No.	Applicable wire			Insulation O.D. (mm)	Q'ty / reel
	Nominal	mm ²	AWG#		
SJ2F-002GF-P1.0	S	0.08~0.20	28~24	0.88~1.43	6,000
SJ2F-01GF-P1.0	M	0.20~0.50	24~20	1.11~1.53	6,000
SJ2F-21GF-P1.0	L	0.30~0.75	—	1.30~1.90	5,000

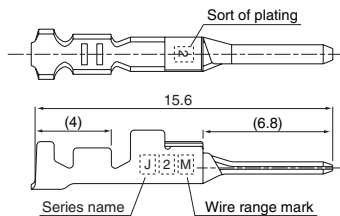
Material and Finish

Copper alloy (superior conductivity), nickel-underplated, selective gold-plated

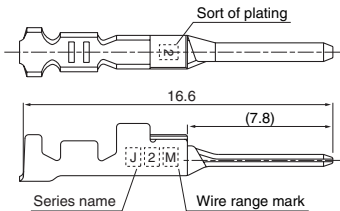
RoHS compliance

Tab contact

• Standard Tab



• Sequential Tab



Strip contact Model No.	Applicable wire			Insulation O.D. (mm)	Q'ty / reel
	Nominal	mm ²	AWG#		
SJ2M-002GF-M1.0N	S	0.08~0.20	28~24	0.88~1.43	5,500
SJ2M-01GF-M1.0N	M	0.20~0.50	24~20	1.11~1.53	5,500
SJ2M-21GF-M1.0N	L	0.30~0.75	—	1.30~1.90	5,000
SJ2M-01GF-M1.0S	Sequential	0.20~0.50	24~20	1.11~1.53	5,500

Material and Finish

Copper alloy (superior conductivity), nickel-underplated, selective gold-plated

RoHS compliance

Crimping machine, Applicator

Strip contact Model No.	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies	Hand crimp tools
SJ2F-002GF-P1.0 SJ2M-002GF-M1.0N	AP-K2N	MKS-L	MK/SJ2F/M-002-10	APLMK SJ2F/M002-10	YRS-8851
		—	—	—	
SJ2F-21GF-P1.0 SJ2M-21GF-M1.0N	AP-K2N	MKS-L	MK/SJ2F/M-21-10	APLMK SJ2F/M21-10	YRF-1120
		*MKS-SC-J2	SC/SJ2F/M-21-10	APLSC SJ2F/M21-10	

• Extraction tool for J2000 series: EJ-JFAJ2N

• Refer to page 15, 16 of YRK series hand crimping tools for details.

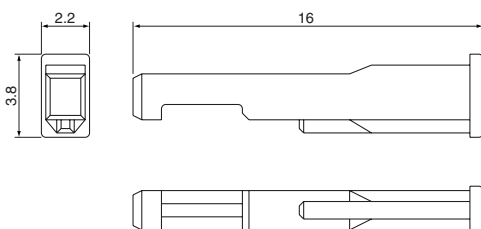
Note 1.*: Strip-crimp applicator

2. Contact JST for fully automatic crimping applicator.

Strip contact Model No.	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies	Hand crimp tools
SJ2F-01GF-P1.0 SJ2M-01GF-M1.0N SJ2M-01GF-M1.0S	AP-K2N	MKS-L	MK/SJ2F/M-01-10	APLMK SJ2F/M01-10	YRS-8861
		*MKS-SC-J2	SC/SJ2F/M-01-10	APLSC SJ2F/M01-10	

Keying plug

Model No.: J2KP-VY

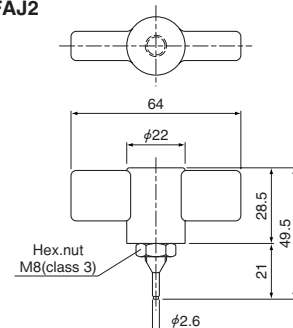


RoHS compliance

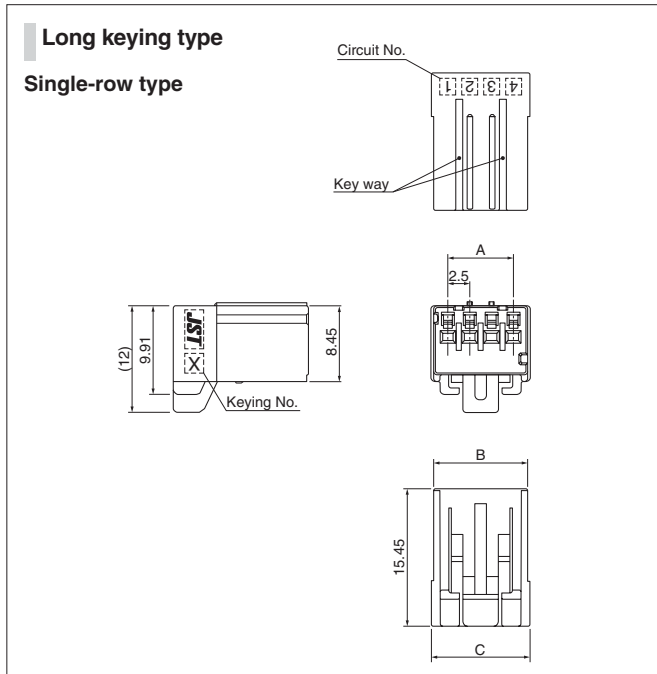
3 JST

Tab contact cutting tool

Model No.: CT-JFAJ2



Receptacle housing (Center locking type)



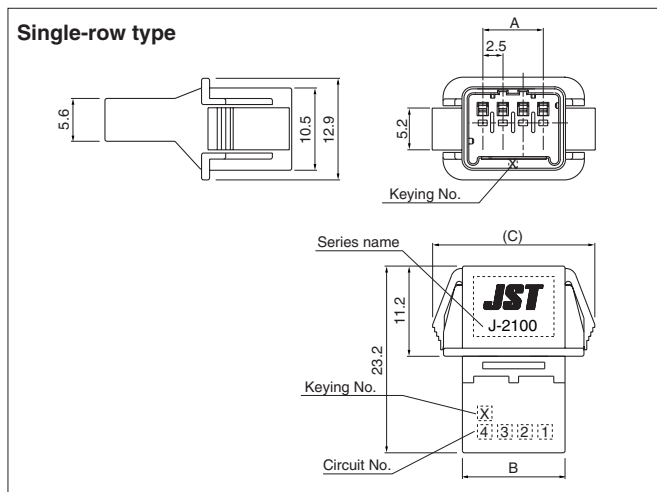
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
3	X	J21SF-03V-KX-L	5.0	8.3	8.9	400
	Y	J21SF-03V-KY-L	5.0	8.3	8.9	400
4	X	J21SF-04V-KX-L	7.5	10.8	11.4	400
	Y	J21SF-04V-KY-L	7.5	10.8	11.4	400

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing (Panel mounting type)



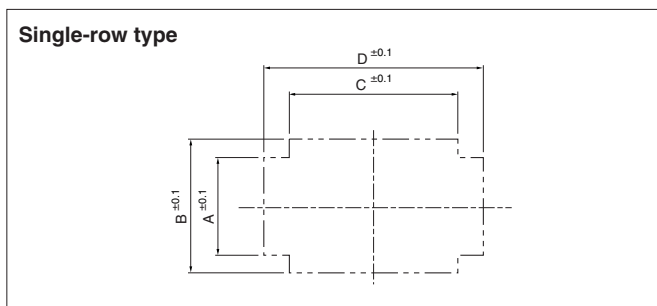
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	(C)	
3	X	J21SPM-03V-KX	5.0	10.2	17.6	208
	Y	J21SPM-03V-KY	5.0	10.2	17.6	208
4	X	J21SPM-04V-KX	7.5	12.7	20.1	192
	Y	J21SPM-04V-KY	7.5	12.7	20.1	192

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Panel layout



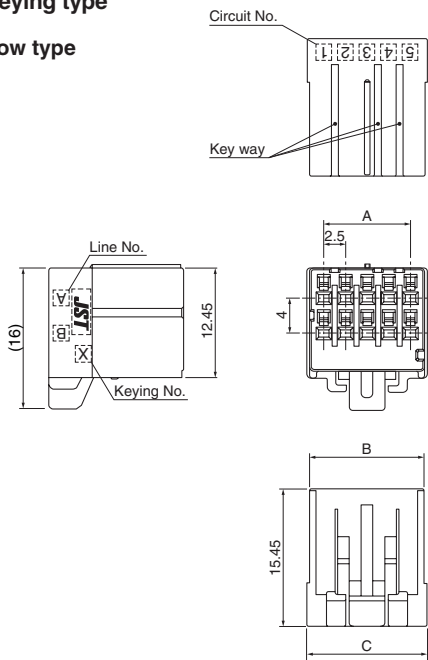
Circuits	Dimensions (mm)			
	A	B	C	D
3	7.8	10.8	10.5	15.2
4	7.8	10.8	13.0	17.7

J2000 SERIES/J2100

Receptacle housing (Center locking type)

Long keying type

Double-row type



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
6	X	J21DF-06V-KX-L	5.0	8.3	8.9	300
	Y	J21DF-06V-KY-L	5.0	8.3	8.9	300
8	X	J21DF-08V-KX-L	7.5	10.8	11.4	300
	Y	J21DF-08V-KY-L	7.5	10.8	11.4	300
10	X	J21DF-10V-KX-L	10.0	13.3	13.9	200
	Y	J21DF-10V-KY-L	10.0	13.3	13.9	200
12	X	J21DF-12V-KX-L	12.5	15.8	16.4	200
	Y	J21DF-12V-KY-L	12.5	15.8	16.4	200
16	X	J21DF-16V-KX-L	17.5	20.8	21.4	200
	Y	J21DF-16V-KY-L	17.5	20.8	21.4	200
20	X	J21DF-20V-KX-L	22.5	25.8	26.4	100
	Y	J21DF-20V-KY-L	22.5	25.8	26.4	100

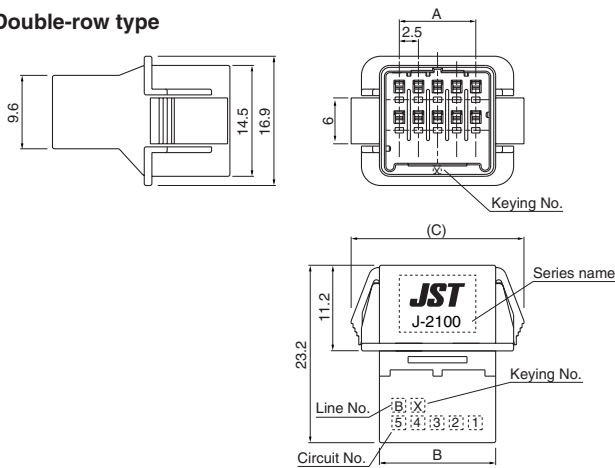
Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing (Panel mounting type)

Double-row type



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	(C)	
6	X	J21DPM-06V-KX	5.0	10.2	17.6	156
	Y	J21DPM-06V-KY	5.0	10.2	17.6	156
8	X	J21DPM-08V-KX	7.5	12.7	20.1	144
	Y	J21DPM-08V-KY	7.5	12.7	20.1	144
10	X	J21DPM-10V-KX	10.0	15.2	22.6	120
	Y	J21DPM-10V-KY	10.0	15.2	22.6	120
12	X	J21DPM-12V-KX	12.5	17.7	25.1	108
	Y	J21DPM-12V-KY	12.5	17.7	25.1	108
16	X	J21DPM-16V-KX	17.5	22.7	30.1	84
	Y	J21DPM-16V-KY	17.5	22.7	30.1	84
20	X	J21DPM-20V-KX	22.5	27.7	35.1	72
	Y	J21DPM-20V-KY	22.5	27.7	35.1	72

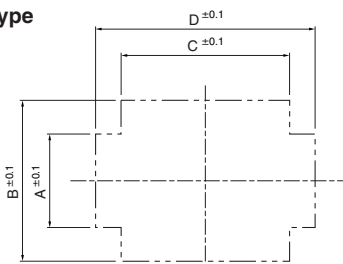
Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

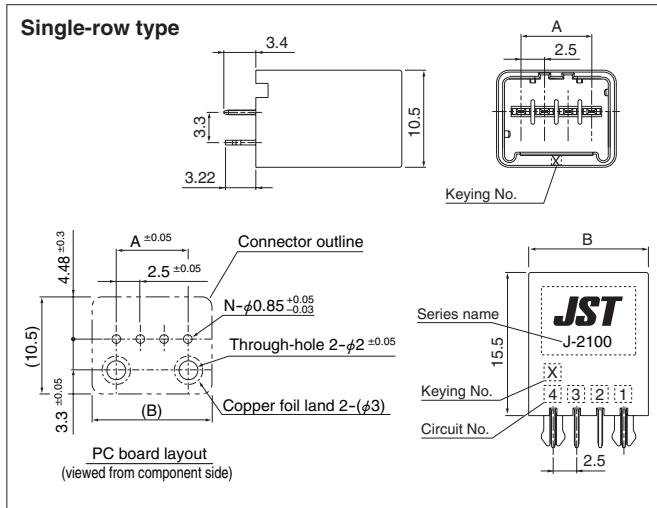
Panel layout

Double-row type



Circuits	Dimensions (mm)			
	A	B	C	D
6	8.6	14.8	10.5	15.2
8	8.6	14.8	13.0	17.7
10	8.6	14.8	15.5	20.2
12	8.6	14.8	18.0	22.7
16	8.6	14.8	23.0	27.7
20	8.6	14.8	28.0	32.7

Header Top entry type (Center locking type)



Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
3	X	B03B-J21SK-GGXR	5.0	10.2	378
	Y	B03B-J21SK-GGYR	5.0	10.2	378
4	X	B04B-J21SK-GGXR	7.5	12.7	306
	Y	B04B-J21SK-GGYR	7.5	12.7	306

Material and Finish

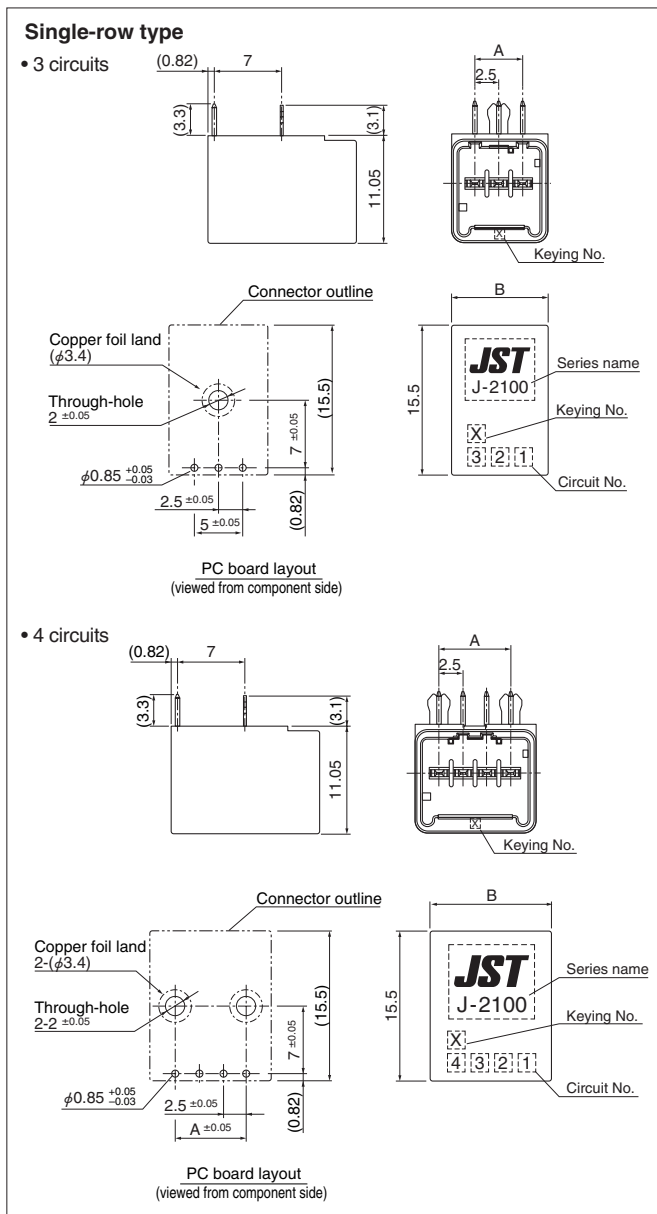
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

Housing: Glass-filled PBT, UL94V-0, black

Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance This product displays (LF)(AU) on a label.

Header Side entry type (Center locking type)



Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
3	X	S03B-J21SK-GGXR	5.0	10.2	294
	Y	S03B-J21SK-GGYR	5.0	10.2	294
4	X	S04B-J21SK-GGXR	7.5	12.7	238
	Y	S04B-J21SK-GGYR	7.5	12.7	238

Material and Finish

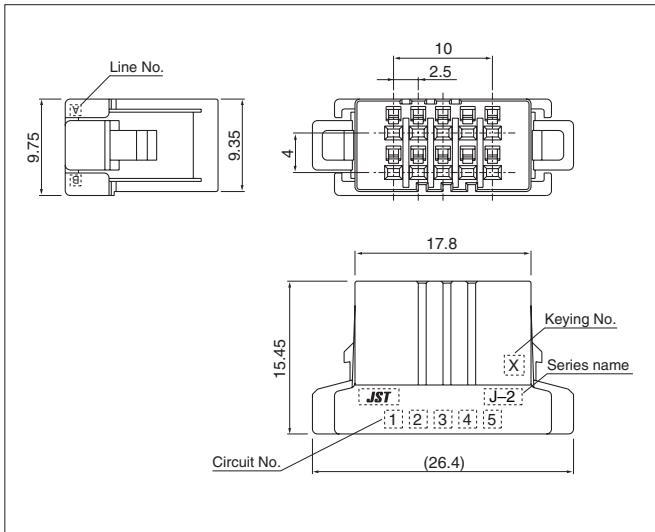
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

Housing: Glass-filled PBT, UL94V-0, black

Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance This product displays (LF)(AU) on a label.

Receptacle housing (Side locking type)



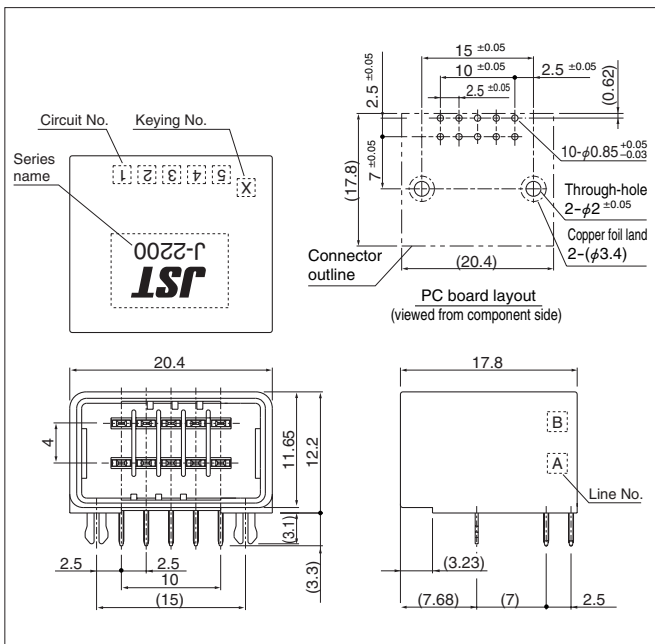
Circuits	Keying	Model No.	Q'ty / bag
10	X	J22DF-10V-KX	250
	Y	J22DF-10V-KY	250

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Header Side entry type (Side locking type)



Circuits	Keying	Model No.	Q'ty / box
10	X	S10B-J22DK-GGXR	120
	Y	S10B-J22DK-GGYR	120

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

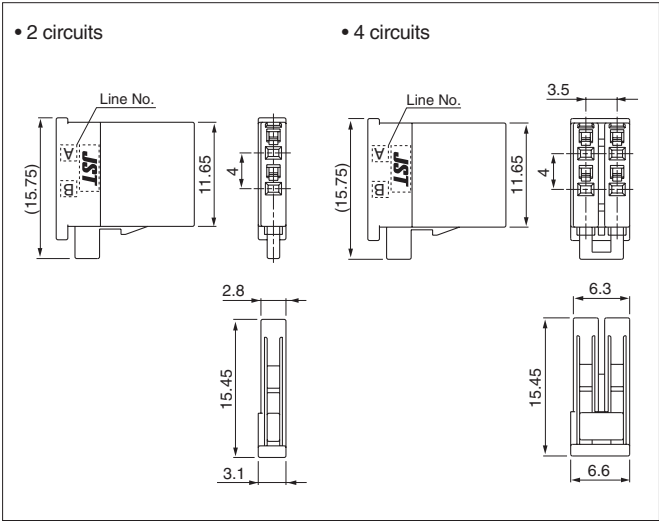
Housing: Glass-filled PBT, UL94V-0, black

Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance This product displays (LF)(AU) on a label.

J2000 SERIES/J2500

Receptacle housing (Module type)

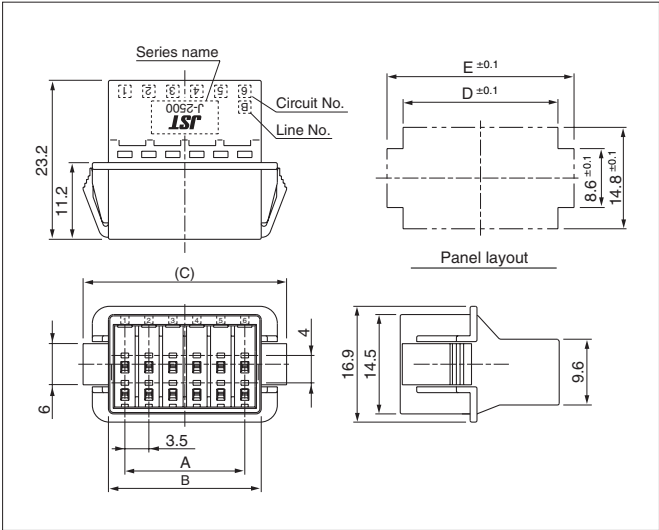


Circuits	Keying	Model No.	Q'ty / bag
2	—	J25MF-02V-K	800
4	—	J25MF-04V-K	400

Material			
Glass-filled PBT, UL94V-0, black			

RoHS compliance

Tab housing (Panel mounting type)

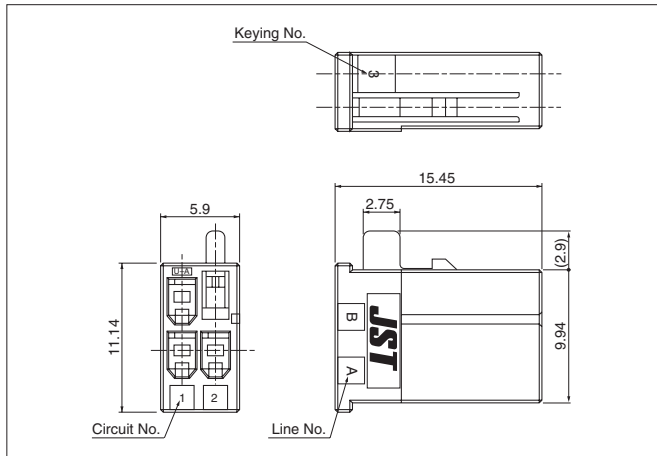


Circuits	Keying	Model No.	Dimensions (mm)					Q'ty / box
			A	B	(C)	D	E	
12	—	J25DPM-12V-K	17.5	22.3	29.7	22.6	27.3	96
20	—	J25DPM-20V-K	31.5	36.3	43.7	36.6	41.3	132

Material								
Glass-filled PBT, UL94V-0, black								

RoHS compliance

Receptacle housing (Common type for sensor)



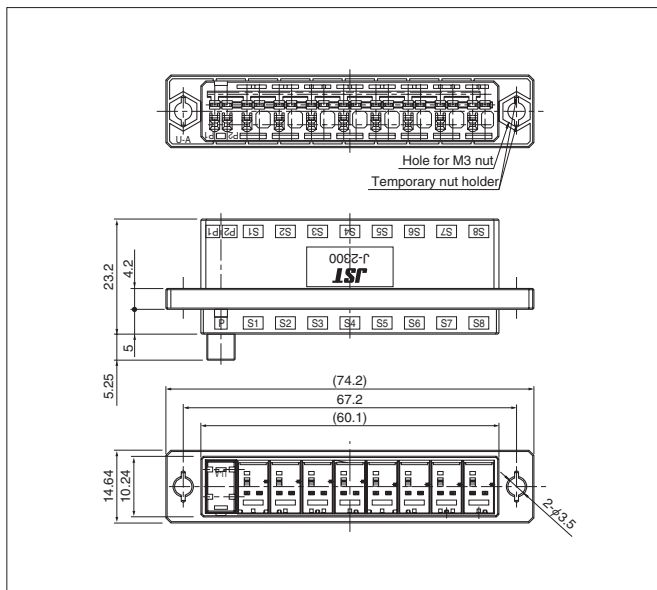
Circuits	Keying	Model No.	Q'ty / box
3	S1	J23CF-03V-KS1	784
	S2	J23CF-03V-KS2	784
	S3	J23CF-03V-KS3	784
	S4	J23CF-03V-KS4	784
	S5	J23CF-03V-KS5	784
	S6	J23CF-03V-KS6	784
	S7	J23CF-03V-KS7	784
	S8	J23CF-03V-KS8	784

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

T&P connector



Circuits	Keying	Model No.	Q'ty / box
Input	24	P28B-J23DK-GGNNR	64
Output	10		

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black

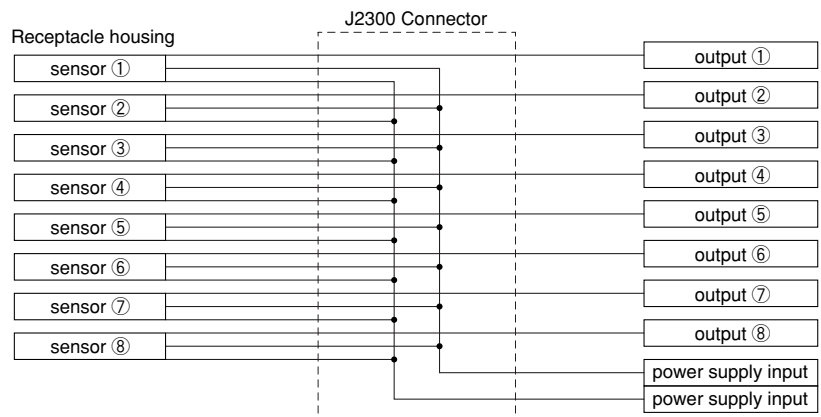
RoHS compliance

• Current rating

Wire size	Current (A)
#20	6.5
#22	5.5
#24	4.0
#26	3.0
#28	2.0

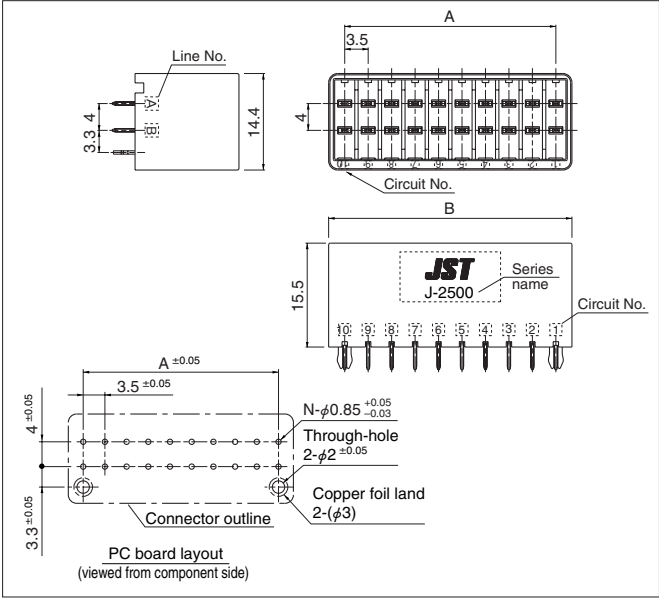
• Voltage rating: 250V AC, DC

• Circuit composition



J2000 SERIES/J2500

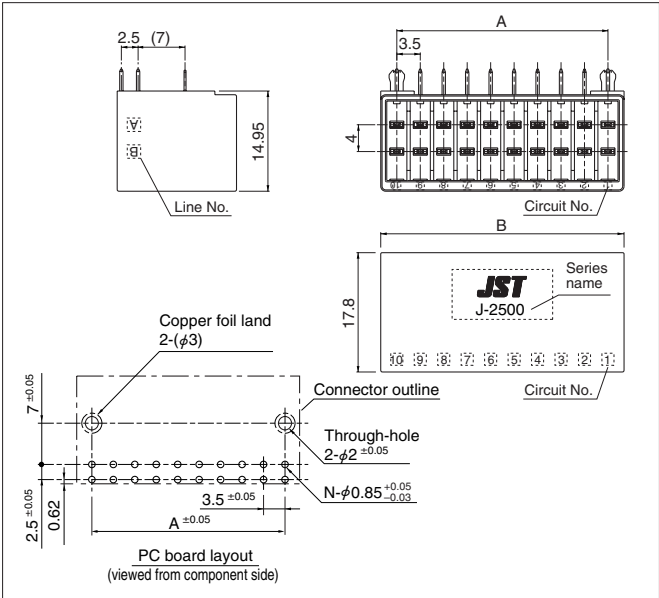
Header Top entry type (Module type)



Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
12	—	B12B-J25DK-GGR	17.5	22.3	108
20	—	B20B-J25DK-GGR	31.5	36.3	72

Material and Finish					
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated					
Housing: Glass-filled PBT, UL94V-0, black					
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated					
RoHS compliance This product displays (LF) (AU) on a label.					

Header Side entry type (Module type)

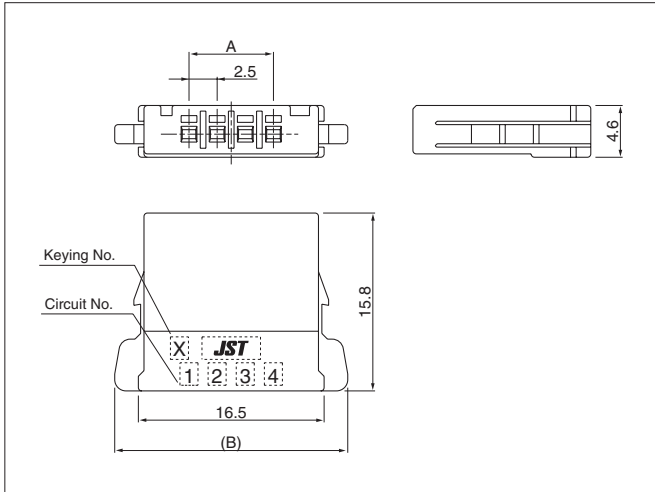


Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
12	—	S12B-J25DK-GGR	17.5	22.3	108
20	—	S20B-J25DK-GGR	31.5	36.3	72

Material and Finish					
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated					
Housing: Glass-filled PBT, UL94V-0, black					
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated					
RoHS compliance This product displays (LF) (AU) on a label.					

J2000 SERIES/J2800

Receptacle housing



Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	(B)	
4	X	J28SF-04V-KX	7.5	20.7	540
	Y	Under planning	—	—	—

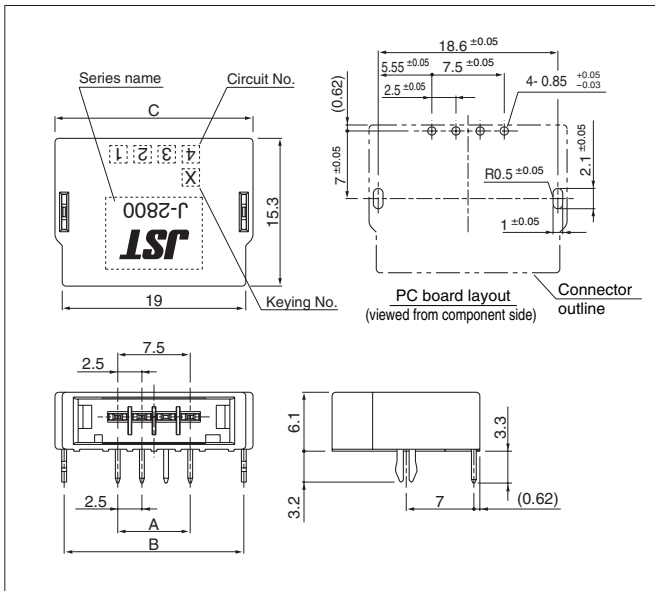
Material

PBT, UL94V-0, black

RoHS compliance

Note: Not UL/CSA approved.

Header Side entry type (Side locking type)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
4	X	S04B-J28SK-GGXQ1R	7.5	18.6	20.5	280
	Y	Under planning	—	—	—	—

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

Housing: Glass-filled PBT, UL94V-0, black

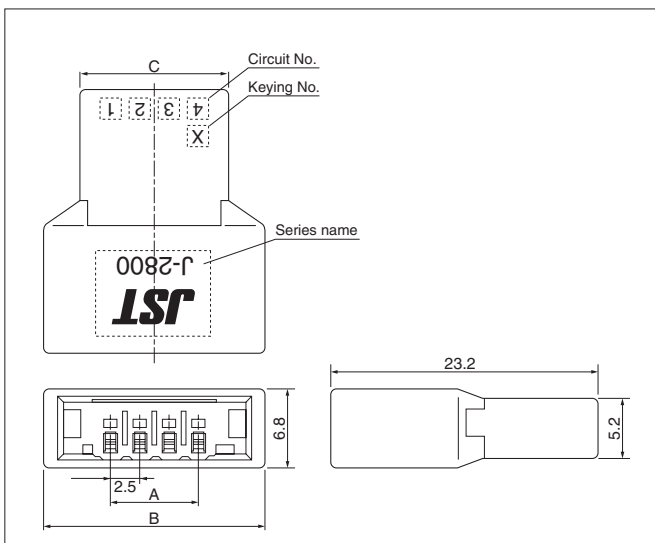
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance

Note: 1. 3rd and 4th pins are sequential pins.

2. Not UL/CSA approved.

Tab housing (Free hanging type)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
4	X	J28SFM-04V-KX	7.5	19	12.7	—
	Y	Under planning	7.5	19	12.7	—

Material

PBT, UL94V-0, black

RoHS compliance

Note: Not UL approved.

JFA CONNECTOR/2000 SERIES

Model number identification

Receptacle contact

SJ2F-01GF-P1.0

Form: S...Strip form

Series name

Kind of terminal: F...Receptacle contact

Applicable wire: 002...AWG #28 ~ AWG#24
01...AWG #24 ~ AWG#20
21...0.3 to 0.75mm²

Surface finish: GF...Nickel-undercoated, 0.38 μm selective gold-plated

Material: P...Copper alloy

Terminal size

Tab contact

SJ2M-01GF-M1.0S

Form: S...Strip form

Series name

Kind of terminal: M...Tab contact

Applicable wire: 002...AWG #28 ~ #24
01...AWG #24 ~ #20
21...0.3 to 0.75mm²

Surface finish: GF...Nickel-undercoated, 0.38 μm selective gold-plated

Material: M...Copper alloy

Terminal size

Sequential identification: N...Normal, S...Sequential

Receptacle housing

J21DF-06V-KX-L

Series name: J21...Center locking type
J22...Side locking type
J23...Center locking type (for sensor)
J25...Module type
J28...Side locking type (Thin type)

Rows: S...Single-row, D...Double-row, M...Module-row
C...For sensor-row

Type of connector: F...Receptacle housing

No. of circuits: 2, 3, 4, 6, 8, 10, 12, 16, 20

Flammability: UL94V-0

Color indication: K...Black, S...Natural (White), PK...Pink

Keying: X...X-Keying, Y...Y-Keying, ※...S1 ~ S8

Key way type: L...Long keying type
Blank...Short keying type (6 circuits is long keying type)

Tab housing

J21DPM-06V-KX

Series name: J21...Center locking type
J22...Side locking type
J25...Module type

Rows: S...Single-row, D...Double-row

Configuration: F...Free hanging, P...Panel mounting

Type of connector: M...Tab housing

No. of circuits: 3, 4, 6, 8, 10, 12, 16, 20

Flammability: UL94V-0

Color indication: K...Black

Keying: X...X-Keying, Y...Y-Keying

Header

S04B-J28SK-GGXQ1R

PC board mounting direction:
B...Top entry type
S...Side entry type
P...Panel mounting type

No. of circuits: 3, 4, 6, 8, 10, 12, 16, 20

Product name: Header

Series name: J21...Center locking type
J22...Side locking type
J23...Center locking type (for sensor)
J25...Module type
J28...Side locking type (Thin type)

Rows: S...Single-row, D...Double-row

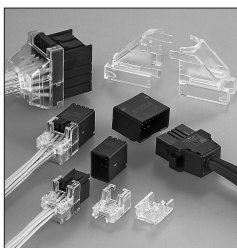
Color indication: K...Black, S...Natural (White), PK...Pink

Surface finish: GG...Nickel-undercoated, 0.38 μm selective gold-plated

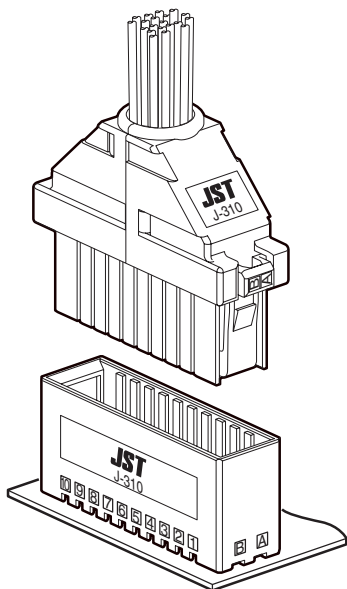
Keying: X...X-Keying, Y...Y-Keying, N...Special keying (S1 ~ S8)

Sequential indication: Q1...Sequential type, Blank...Standard type

Packaging form: R...Tray



JFA CONNECTOR/PROTECTOR

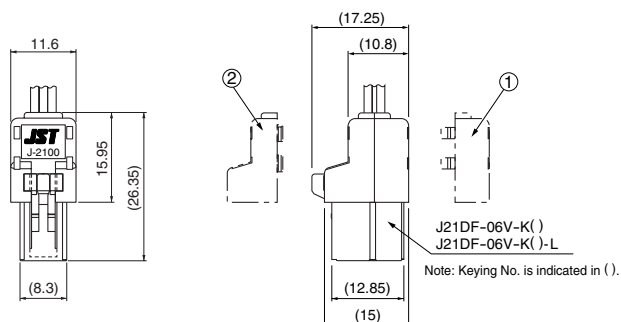


Note: Protector is not UL/CSA/TÜV approved

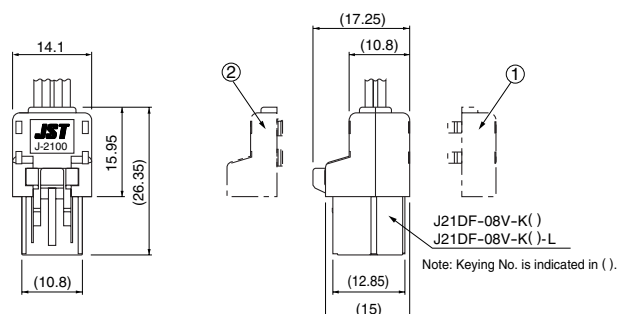
When applying a current to the connector, the protector prevents foreign substances being inserted into mating part from the wiring side. However it has no function of holding the wire securely.

J2000 Series

•J2100 series for 6 circuits



•J2100 series for 8 circuits



No.	Model No.	Color
①	J21PF-06SCA	Transparent
②	J21PF-06SCB	Transparent
Material		
Polycarbonate		

RoHS compliance

No.	Model No.	Color
①	J21PF-08SCA	Transparent
②	J21PF-08SCB	Transparent
Material		
Polycarbonate		

RoHS compliance

JFA CONNECTOR/PROTECTOR

J2000 Series

•J2100 series for 10 circuits

No.	Model No.	Color
①	J21PF-10SCA	Transparent
②	J21PF-10SCB	Transparent
Material		
Polycarbonate		

RoHS compliance

•J2100 series for 16 circuits

No.	Model No.	Color
①	J21PF-16SCA	Transparent
②	J21PF-16SCB	Transparent
Material		
Polycarbonate		

RoHS compliance

•J2100 series for 20 circuits

No.	Model No.	Color
①	J21PF-20SCA	Transparent
②	J21PF-20SCB	Transparent
Material		
Polycarbonate		

RoHS compliance

•J2200 series for 10 circuits

No.	Model No.	Color
①	J22PF-10VK	Black
Material		
Glass-filled PBT		

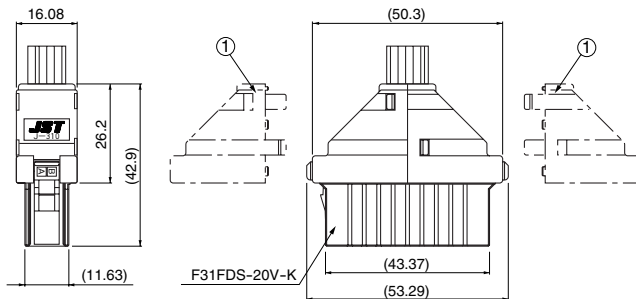
RoHS compliance

Note: Two protectors are used.

JFA CONNECTOR/PROTECTOR

J300 Series

•J310D series for 20 circuits



No.	Model No.	Color
①	F31PFD-20VK	Black
①	F31PFD-20SC	Transparent

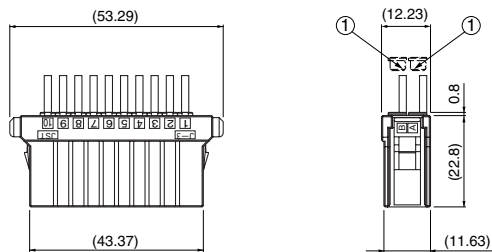
Material

Black: Glass-filled PBT
Transparent: Polycarbonate

RoHS compliance

Note: Two protectors of the same color are used.

•J310D series / Embedding-type protector for 8, 10 circuits



No.	Model No.	Color
①	F31PFS-10KU	Black

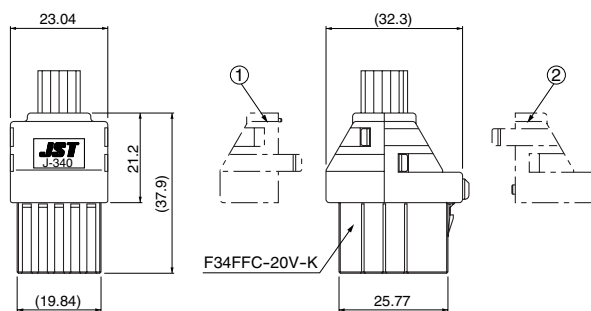
Material

Glass-filled PBT

RoHS compliance

Note: This protector is cut and used for each number of circuits.

•J340F series for 20 circuits



No.	Model No.	Color
①	F34PFF-20VKA	Black
	F34PFF-20SCA	Transparent
②	F34PFF-20VKB	Black
	F34PFF-20SCB	Transparent

Material

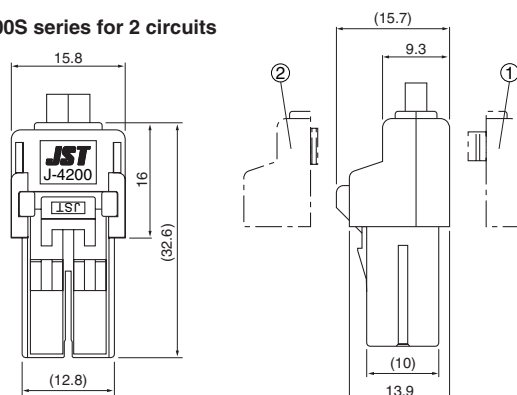
Black: Glass-filled PBT
Transparent: Polycarbonate

RoHS compliance

Note: Both 1 and 2 protectors in the same color are used.

J4000 Series

•J4200S series for 2 circuits



No.	Model No.	Color
①	J42PF-02SCA	Transparent
②	J42PF-02SCB	Transparent

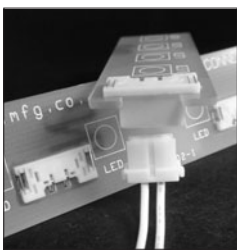
Material

Polycarbonate

RoHS compliance

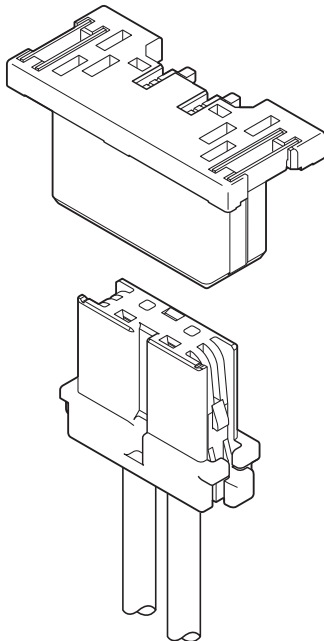
(Patent pending)

When applying a current to the connector, the protector prevents foreign substances being inserted into mating part from the wiring side. However it has no function of holding the wire securely.



LEX CONNECTOR

2.5mm pitch/For LED Lamp/Disconnectable Crimp style connectors



Considering about luminescence property of LED package, this LEX connector is designed as low profile bottom type connector for LED lighting equipment, and achieves the space saving at the connector mounting side.

In consideration of connector mating operation, secure lock and mechanism for preventing wrong insertion are provided. With the assumption that the load may be applied to the soldering part when mating the connector, the strength of soldering part after mounting the connector on PCB has been largely improved.

- **Low profile and space saving design**
Mounting height at connector mounting side: 1.2mm
- **Secure locking mechanism**
- **Mechanism for preventing wrong insertion**
- **Halogen-free and RoHS compliant**

Specifications

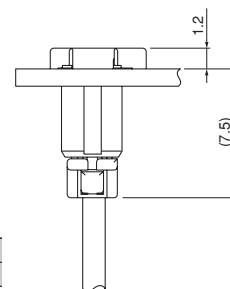
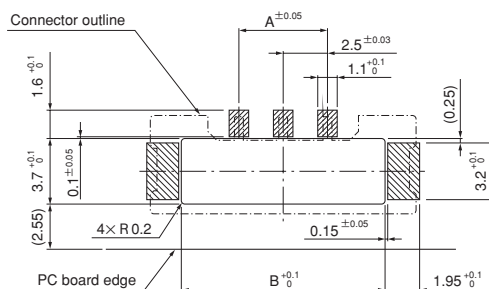
- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 300V AC, DC
- Temperature range: -55°C to +105°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 10m Ω max.
After environmental testing/ 20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,700V AC/minute
- Applicable wire: Conductor size/ AWG #30 to #22
Insulation O.D./ 0.7 to 1.3mm

- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

Recognized E60389

Certified LR20812

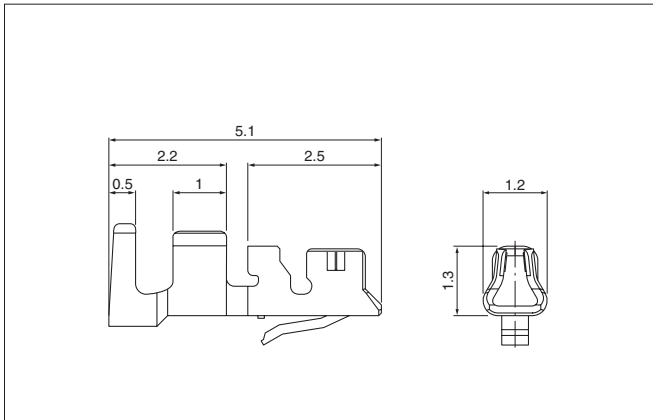


Circuits	Dimensions (mm)	
	A	B
2	—	9.0
4	7.5	14.0

Note: 1. The above figure is the figure viewed from the connector mounting side.
2. Tolerances are non-cumulative: ± 0.05 mm for all centers.
The dimensions above should serve as a guideline. Contact JST for details.

LEX CONNECTOR

Contact



Model No.	Applicable wire			Q'ty / reel
	mm ²	AWG#	Insulation O.D. (mm)	
SSFH-001T-P0.5	0.13~0.33	26~22	0.95~1.3	15,000
SSFH-002T-P0.5	0.05~0.13	30~26	0.7~1.25	15,000

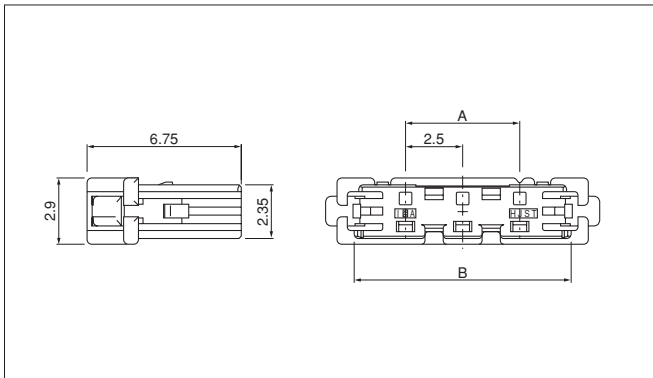
Material and Finish

Copper alloy, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SSFH-001T-P0.5	AP-K2N	MKS-L	MK/SSFH-001-05	APLMK SSFH001-05
		—	—	—
SSFH-002T-P0.5	AP-K2N	MKS-L	MK/SSFH-002-05	APLMK SSFH002-05
		—	—	—

Housing



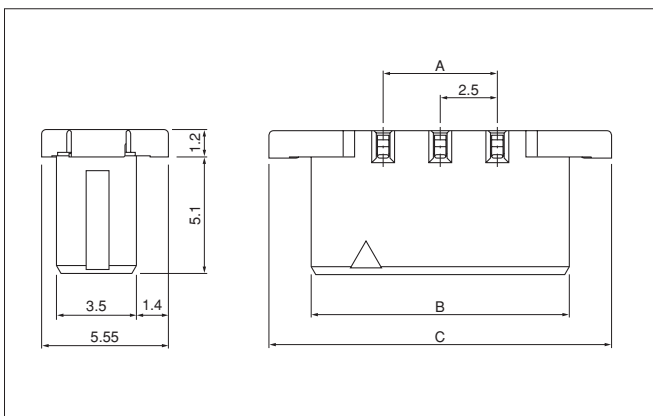
Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	LEXR-02V-S(HF)	—	7.0	2,000
4	LEXR-04V-S(HF)	7.5	12.0	1,000

Material

Glass-filled PA 66, UL94V-0, natural

RoHS compliance

Shrouded header



Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
2	EM02B-LEXSS-TF(HF)	—	8.8	12.5	1,600
4	EM04B-LEXSS-TF(HF)	7.5	13.8	17.5	1,600

Material and Finish

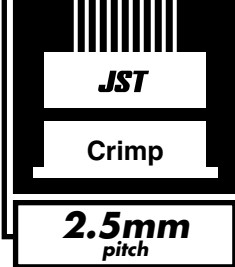
Press pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Housing: PA 9T, UL94V-0, natural

Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

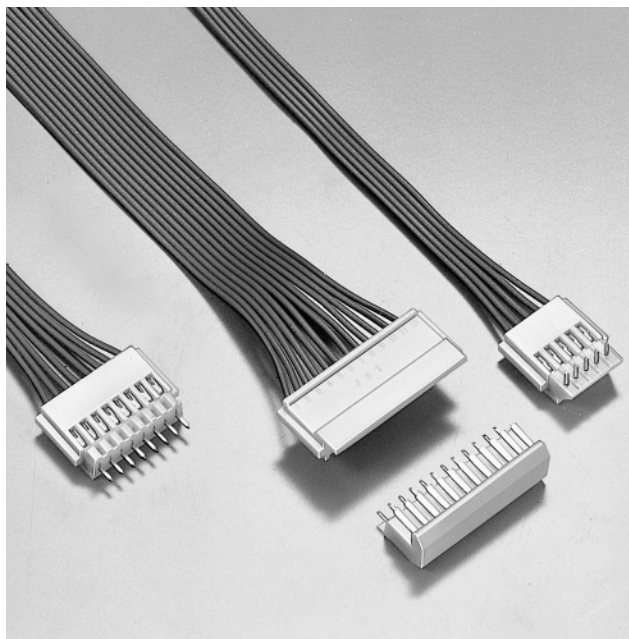
RoHS compliance

Note: The products listed above are supplied on embossed-tape.

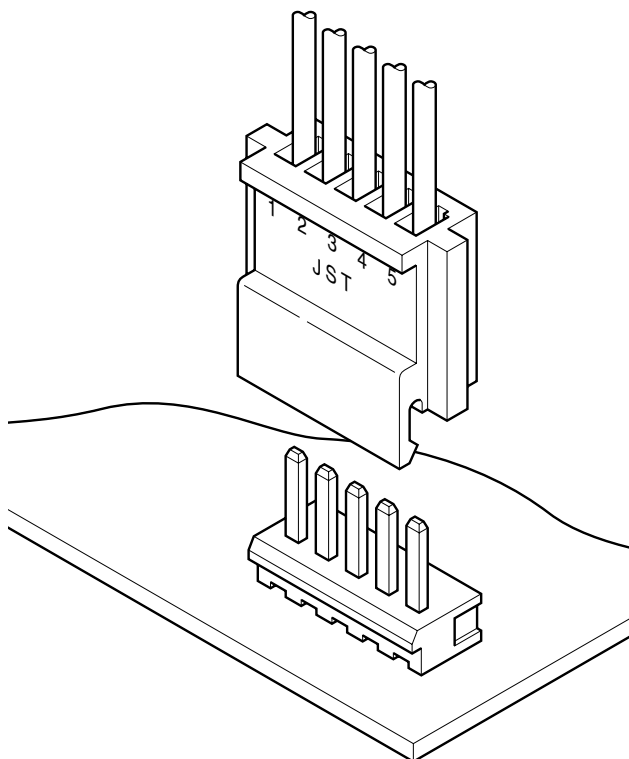


NH CONNECTOR

Disconnectable Crimp style connectors



This 2.5mm pitch connector is used to connect wires to printed circuit boards. The header is available in three configurations : top, side, and bottom entry. This allows the wires to be perpendicular or parallel to the printed circuit board in any direction.



Features

• Superior folded beam construction

- (1) This sturdy construction withstands repeated stress, resists permanent deformation, and offers a very long service life.
- (2) High reliability is ensured whether the contact pressure is high or low.
- (3) This contact design has a large tolerance for variations in mating post thickness and resists deformation when pried.

• Double-sided contact

- (1) The receptacle contact has a protected entry which eliminates contact damage caused by mismating.
- (2) It provides high contact pressure, is free from abnormal stress, and maintains continuity at all times.
- (3) It has an extremely long service life due to its folded beam design.

• Wide, sturdy post

The post has a large cross-sectional area to resist prying during insertion into printed circuit boards and mating with connector housings.

• Molded-in header

The posts are molded into the insulator to provide stability when mounted on printed circuit boards. This also prevents flux from entering the connector during soldering.

Specifications

- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/15m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #30 to #22
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

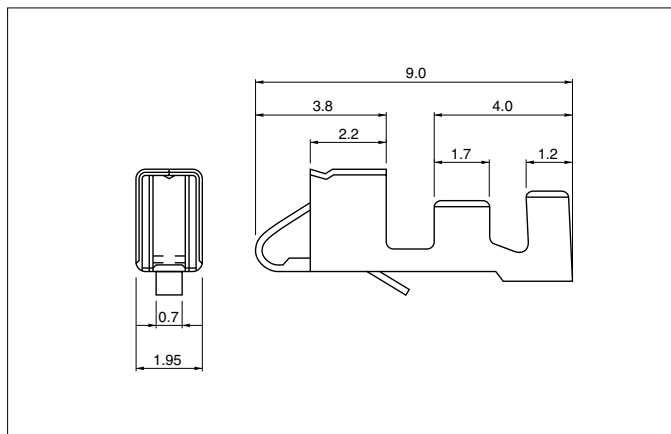
Recognized E60389

Certified LR20812

R75086

NH CONNECTOR

Contact



Model No.	Applicable wire			Q'ty / reel
	mm ²	AWG #	Insulation O.D. (mm)	
SHF-001T-0.8BS	0.08 to 0.33	28 to 22	1.2 to 1.7	5,000
SHF-002T-0.8BS	0.05 to 0.08	30 to 28	0.9 to 1.2	

Material and Finish

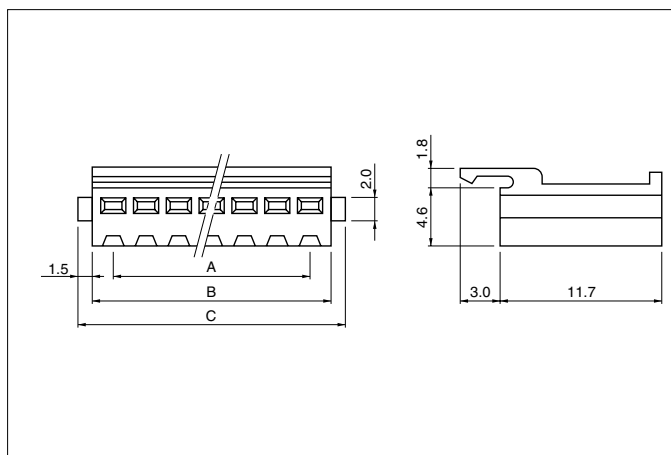
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Note:

1. Contact JST for gold-plated products.
2. Also contact JST if you require shielded wires, thin wires or other special wires.
3. Contact JST for brass products.

Housing



Cir- cuits	Model No.	Dimensions (mm)			Q'ty / bag
		A	B	C	
2	H 2P-SHF-AA	2.5	5.7	8.7	1,000
3	H 3P-SHF-AA	5.0	8.2	11.2	1,000
4	H 4P-SHF-AA	7.5	10.7	13.7	1,000
5	H 5P-SHF-AA	10.0	13.2	16.2	1,000
6	H 6P-SHF-AA	12.5	15.7	18.7	1,000
7	H 7P-SHF-AA	15.0	18.2	21.2	500
8	H 8P-SHF-AA	17.5	20.7	23.7	500
9	H 9P-SHF-AA	20.0	23.2	26.2	500
10	H10P-SHF-AA	22.5	25.7	28.7	500
11	H11P-SHF-AA	25.0	28.2	31.2	500
12	H12P-SHF-AA	27.5	30.7	33.7	500
13	H13P-SHF-AA	30.0	33.2	36.2	500
14	H14P-SHF-AA	32.5	35.7	38.7	500
15	H15P-SHF-AA	35.0	38.2	41.2	200
16	H16P-SHF-AA	37.5	40.7	43.7	200
18	H18P-SHF-AA	42.5	45.7	48.7	200
20	H20P-SHF-AA	47.5	50.7	53.7	200
21	H21P-SHF-AA	50.0	53.2	56.2	200
22	H22P-SHF-AA	52.5	55.7	58.7	200
24	H24P-SHF-AA	57.5	60.7	63.7	200
25	H25P-SHF-AA	60.0	63.2	66.2	200

Material

PA 6, UL94V-0, natural (white)

RoHS compliance

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **H2P-SHF-AA-oo**

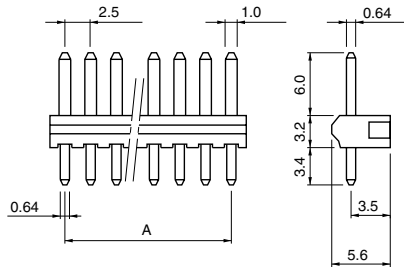
(blank)...natural (white)

K...black R...red TR...tomato red E...blue M...green

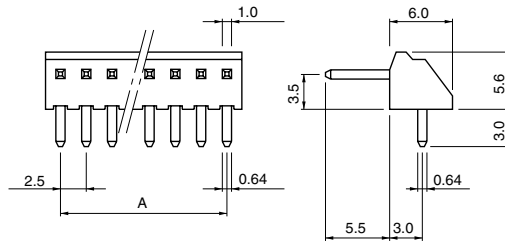
O...orange N...brown

Header

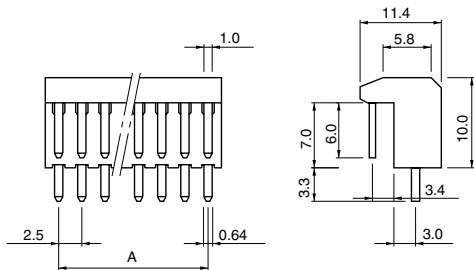
Top entry type



Side entry type



Bottom entry type



Cir- cuits	Model No.			Dimen- sions A (mm)	Q'ty / box		
	Top entry type	Side entry type	Bottom entry type		Top entry type	Side entry type	Bottom entry type
2	B 2P-SHF-1AA	BS 2P-SHF-1AA	BE 2P-SHF-1AA	2.5	1,000	1,000	250
3	B 3P-SHF-1AA	BS 3P-SHF-1AA	BE 3P-SHF-1AA	5.0	1,000	1,000	250
4	B 4P-SHF-1AA	BS 4P-SHF-1AA	BE 4P-SHF-1AA	7.5	1,000	500	250
5	B 5P-SHF-1AA	BS 5P-SHF-1AA	BE 5P-SHF-1AA	10.0	1,000	500	250
6	B 6P-SHF-1AA	BS 6P-SHF-1AA	BE 6P-SHF-1AA	12.5	500	500	150
7	B 7P-SHF-1AA	BS 7P-SHF-1AA	BE 7P-SHF-1AA	15.0	500	500	150
8	B 8P-SHF-1AA	BS 8P-SHF-1AA	BE 8P-SHF-1AA	17.5	500	500	150
9	B 9P-SHF-1AA	BS 9P-SHF-1AA	BE 9P-SHF-1AA	20.0	500	500	150
10	B10P-SHF-1AA	BS10P-SHF-1AA	BE10P-SHF-1AA	22.5	250	250	100
11	B11P-SHF-1AA	BS11P-SHF-1AA	BE11P-SHF-1AA	25.0	250	250	100
12	B12P-SHF-1AA	BS12P-SHF-1AA	BE12P-SHF-1AA	27.5	250	200	100
13	B13P-SHF-1AA	BS13P-SHF-1AA	BE13P-SHF-1AA	30.0	250	200	100
14	B14P-SHF-1AA	BS14P-SHF-1AA	BE14P-SHF-1AA	32.5	250	200	50
15	B15P-SHF-1AA	BS15P-SHF-1AA	BE15P-SHF-1AA	35.0	250	200	50
16	B16P-SHF-1AA	BS16P-SHF-1AA	—	37.5	250	200	—
17	B17P-SHF-1AA	—	—	40.0	200	—	—
18	B18P-SHF-1AA	BS18P-SHF-1AA	—	42.5	200	200	—
19	B19P-SHF-1AA	—	—	45.0	250	—	—
20	B20P-SHF-1AA	BS20P-SHF-1AA	—	47.5	250	200	—
21	B21P-SHF-1AA	BS21P-SHF-1AA	—	50.0	250	200	—
22	B22P-SHF-1AA	BS22P-SHF-1AA	—	52.5	250	200	—
23	B23P-SHF-1AA	—	—	55.0	250	—	—
24	B24P-SHF-1AA	BS24P-SHF-1AA	—	57.5	250	200	—
25	B25P-SHF-1AA	BS25P-SHF-1AA	—	60.0	250	200	—

Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment)
 Wafer: PA 66, UL94V-0, natural (white) for the top and side entry types
 PA 6, UL94V-0, natural (white) for the bottom entry type

RoHS compliance This product displays (LF)(SN) on a label.

<For reference> As the color identification,
 the following alphabet shall be put in the underlined part.
 For availability, delivery and minimum order quantity, contact JST.

ex. **B2P-SHF-1AA-oo**

(blank)...natural (white)

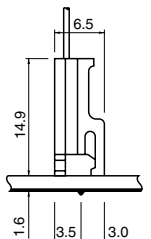
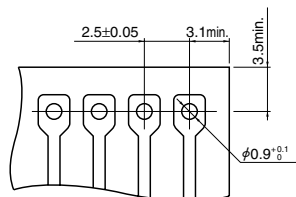
BK...black R...red TR...tomato red E...blue M...green

O...orange N...brown

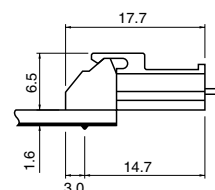
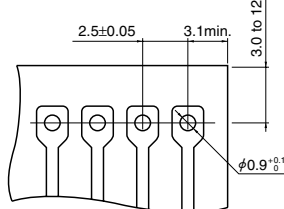
NH CONNECTOR

PC board layout (viewed from soldering side) and Assembly layout

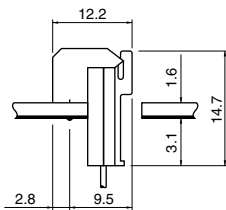
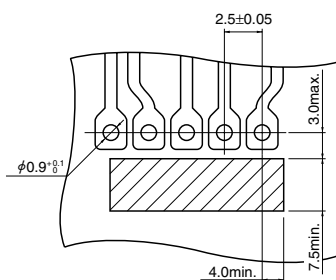
Top entry type



Side entry type



Bottom entry type



Note:

1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline.
Contact JST for details.

Crimping machine, Applicator

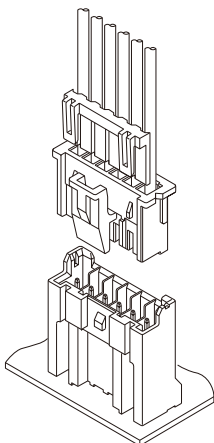
Contact	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies
SHF-001T-0.8BS	AP-K2N	MKS-LS, MKS-L	MK/SHF-001-08S	APLMK SHF001-08S
		*MKS-SC	SC/SHF-001-08S	APLSC SHF001-08S
SHF-002T-0.8BS	AP-K2N	MKS-LS, MKS-L	MK/SHF-002-08S	APLMK SHF002-08S
		*MKS-SC	SC/SHF-002-08S	APLSC SHF002-08S

Note: *Strip-crimp applicator



PXA CONNECTOR

2.5mm pitch/Disconnectable Crimp style connectors



Secondary retainer mountable 2.5mm pitch high-box type, with 20.5mm mounting height.

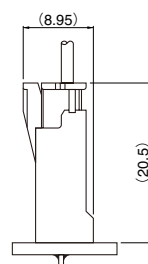
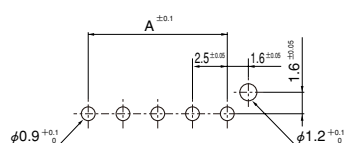
Fully shrouded header has the walls between every circuit to consider as the structure against vibration or prying.

- **Secure locking device**
- **Fully shrouded header**
- **Header for use specifically with resin coated ("potted") PC boards**
- **PC board layout is exactly same as XA connector**
- **Secondary retainer**

Specifications

- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,000V AC/minute
- Applicable wire: AWG #26 to #22
- Applicable PC board thickness: 1.6mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

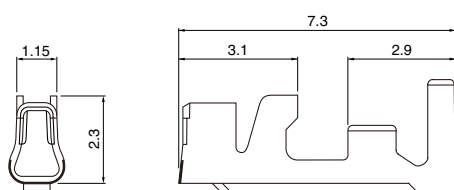
PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimension differ according to the kind of PC board and piercing method. If PC boards made of hard material are used, the hole dimensions should be larger. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SPXA-001T-P0.6	0.13~0.33	26~22	1.2~1.9	7,000

Material and Finish

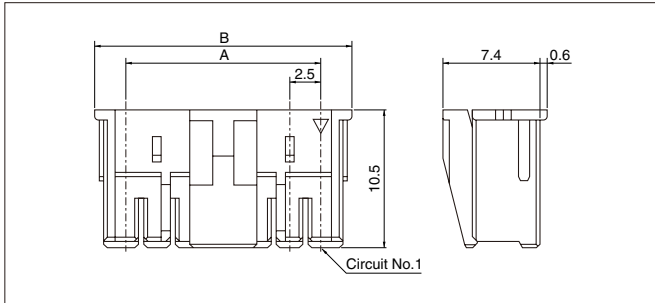
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPXA-001T-P0.6	AP-K2N	MKS-L	MK/SPXA-001-06	APLMK SPXA001-06
		—	—	—

PXA CONNECTOR

Housing



Circuits	Model No.	Dimensions (mm)		Q'ty /bag
		A	B	
2	PXARP-02V	2.5	7.3	1,000
3	PXARP-03V	5.0	9.8	1,000
6	PXARP-06V	12.5	17.3	1,000

Material

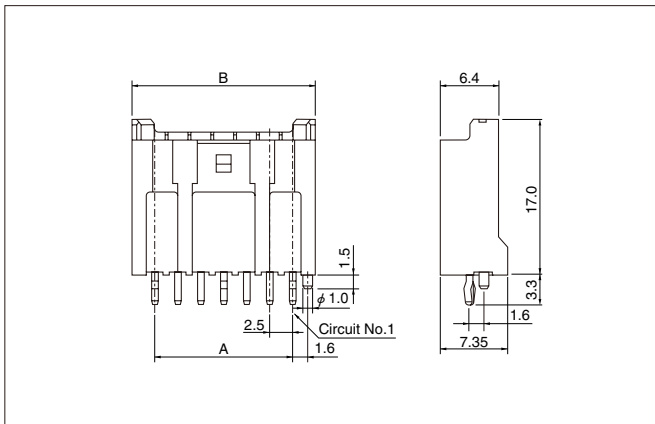
PA 66, UL94V-0, natural (white)

RoHS compliance

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **PXARP-02V-00**
(blank)...natural (white)
K...black R...red E...blue

Shrouded header



Circuits	Model No.	Dimensions (mm)		Q'ty /box
		A	B	
2	BH02B-PXASK	2.5	7.5	400
3	BH03B-PXASK	5.0	10.0	400
6	BH06B-PXASK	12.5	17.5	200

Material and Finish

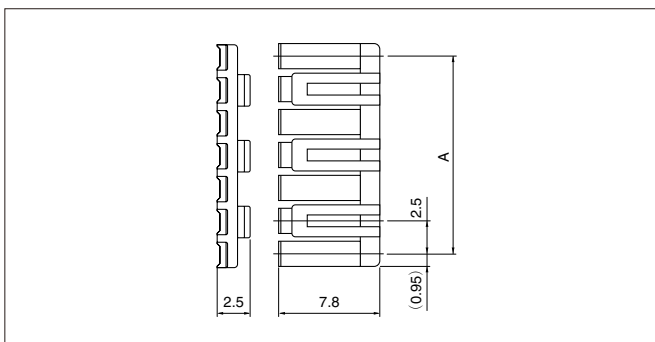
Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance

This product displays (LF)(SN) on a label.
<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **BH02B-PXASK**
S...natural (ivory)
K...black R...red E...blue

Retainer

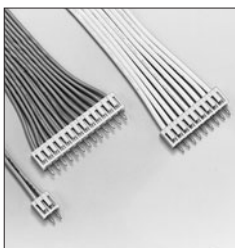


Circuits	Model No.	A	Q'ty / bag
2	XMS-02V	2.5	1,000
3	XMS-03V	5.0	1,000
6	XMS-06V	12.5	1,000

Material

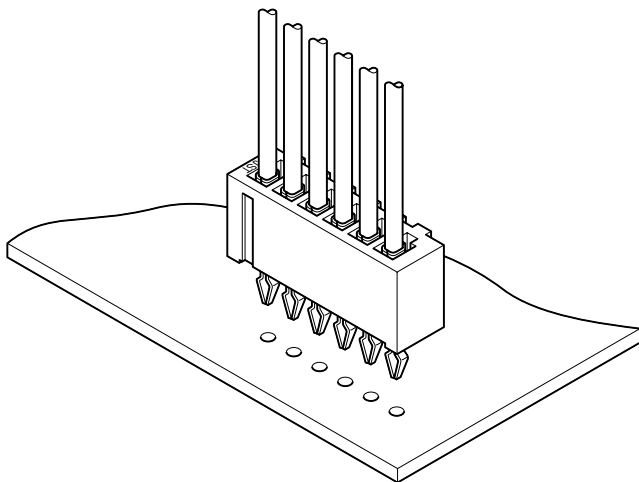
Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance



SCN CONNECTOR

2.5mm pitch/Board-in Crimp style connectors



This 2.5mm pitch multi-circuit board-in connector meets the needs for high-density mounting on printed circuit boards efficiently and economically. The connector can be used for VCRs, car stereo systems, audio products, and many other consumer-oriented electronic products.

- **Housing lances**
- **Secure mounting on printed circuit boards**
- **Two types of contacts**

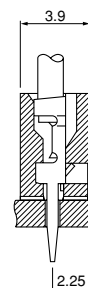
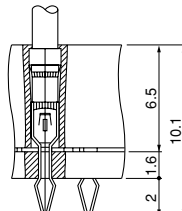
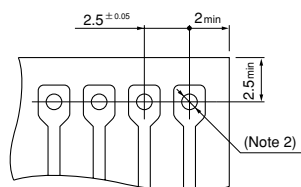
Specifications

- Current rating: 3A AC, DC (AWG #22)
 - Voltage rating: 250V AC, DC
 - Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
 - Insulation resistance: 1,000M Ω min.
 - Withstanding voltage: 800V AC/minute
 - Applicable wire: AWG #28 to #22
 - Applicable PC board thickness: 1.2mm, 1.6mm
- * Compliant with RoHS.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

Ⓜ Recognized E60389

Ⓢ Certified LR20812



Note: 1. The above figure is the figure viewed from soldering side.

2. Applicable PC board thickness: Type A 1.6mm
Type B 1.6mm and 1.2mm.

3. Tolerances are non-cumulative: ± 0.05 mm

Type A: 1.0 ± 0.05 mm dia.

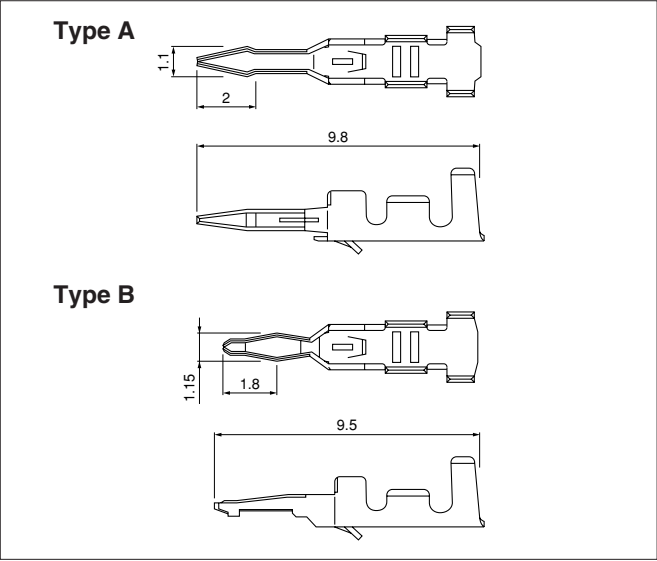
Type B: 2 to 6 circuits/ 1.0 ± 0.05 mm dia.

7 circuits and more/Hole dimensions differ from the above values. Contact JST for details.

4. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

SCN CONNECTOR

Contact



Model No.	Type	Applicable wire		Insulation O.D. (mm)	Material	Q'ty / reel
		mm ²	AWG #			
SCN-001T-P1.0	A	0.08~0.33	28~22	0.9~1.7	Phosphor bronze	11,000
SCN-001T-1.0K	B				Brass	

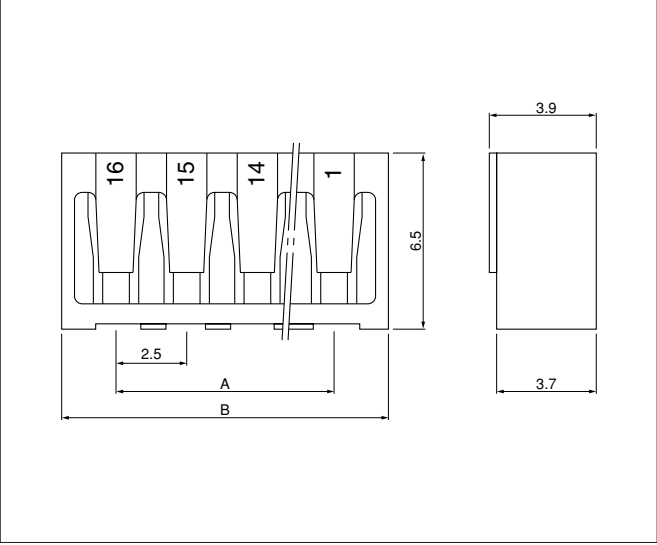
Finish
Tin-plated (reflow treatment)

RoHS compliance
Note: 1. Contact JST if you require shielded wires, thin wires or other special wires.
2. Contact JST for brass products.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SCN-001T-P1.0	AP-K2N	MKS-L	MK/SCN-001-10	APLMK SCN001-10
SCN-001T-1.0K		*MKS-SC	SC/SCN-001-10	APLSC SCN001-10

Note: *Strip-crimp applicator

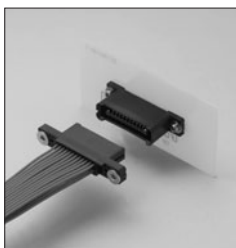
Housing



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	2P-SCN	2.5	6.5	1,000
3	3P-SCN	5.0	9.0	1,000
4	4P-SCN	7.5	11.5	1,000
5	5P-SCN	10.0	14.0	1,000
6	6P-SCN	12.5	16.5	1,000
7	7P-SCN	15.0	19.0	1,000
8	8P-SCN	17.5	21.5	1,000
9	9P-SCN	20.0	24.0	1,000
10	10P-SCN	22.5	26.5	1,000
11	11P-SCN	25.0	29.0	1,000
12	12P-SCN	27.5	31.5	1,000
13	13P-SCN	30.0	34.0	1,000
14	14P-SCN	32.5	36.5	1,000
15	15P-SCN	35.0	39.0	1,000
16	16P-SCN	37.5	41.5	1,000

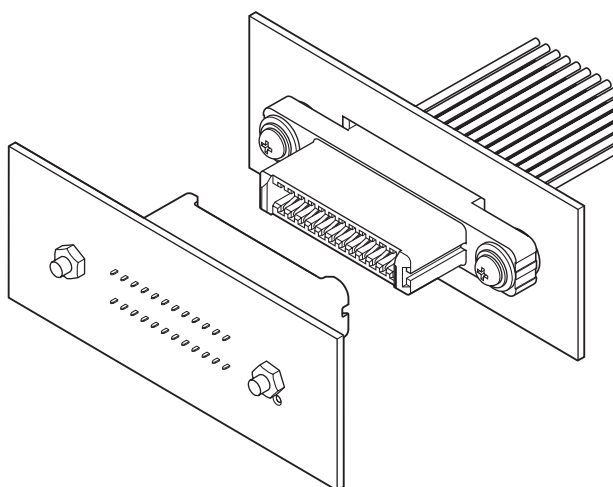
Material
PA 66, UL94V-0, ivory

RoHS compliance
<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.
ex. 2P-SCN-oo
(blank)...ivory
K...black R...red Y...yellow



TSF CONNECTOR

2.5mm pitch/Disconnectable Crimp style connectors



This TSF connector is a drawer connector with floating function which makes design of equipment easy.

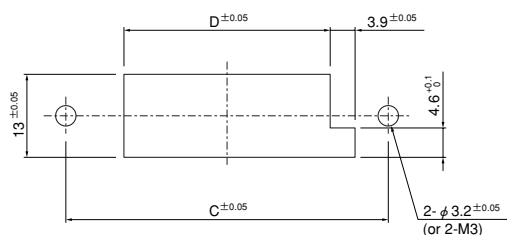
Putting the phase lag on four grounding contacts at both ends and other contacts of signal and power supply, the sequential connecting is realized.

- **Floating function**
- **Sequential mechanism**
- **Stabilized contact performance by adopting the bellows type contact**
- **Wide usable fixation method (Standard M3 metric screw)**

Specifications

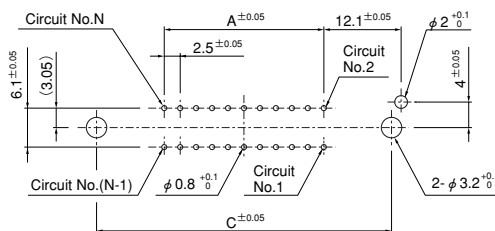
- Current rating: 3 A AC, DC (AWG #22)
 - Voltage rating: 50 V AC, DC
 - Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
 - Contact resistance: Initial value/ 30 mΩ max.
After environmental tests/ 50 mΩ max.
 - Insulation resistance: 1,000 MΩ min.
 - Withstanding voltage: 500 VAC/minute
 - Applicable wire: Conductor size/AWG #26 to #22
Insulation O.D./ 1.2 to 1.9 mm
 - Applicable PC board thickness: 1.6 mm
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Compliant with RoHS.

**Panel layout for receptacle
(viewed from component side)**



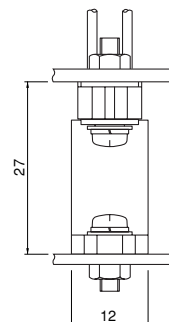
Note: 1. Punch holes in the panel according to the figures shown above. Burrs must be removed.
2. The strength of the panel must be considered when punching two or more holes.

**PC board layout for plug
(viewed from component side)**



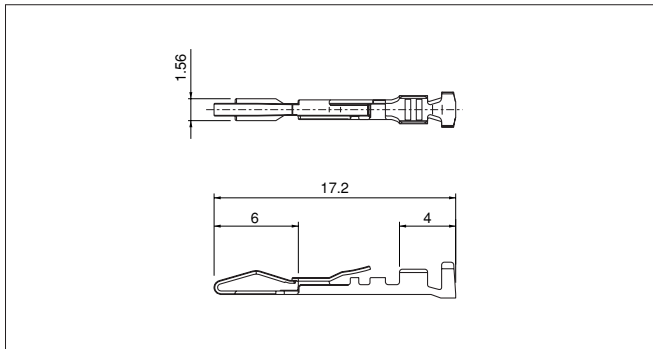
Note: 1. Tolerances for pattern pitch are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the type of PC board and piercing method.
The dimensions above should serve as a guideline.
Contact JST for details.

Assembly layout



TSF CONNECTOR

Receptacle contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
STSF-001GG-M0.6	0.13~0.33	26~22	φ 1.2~φ 1.9	10,000

Material and Finish

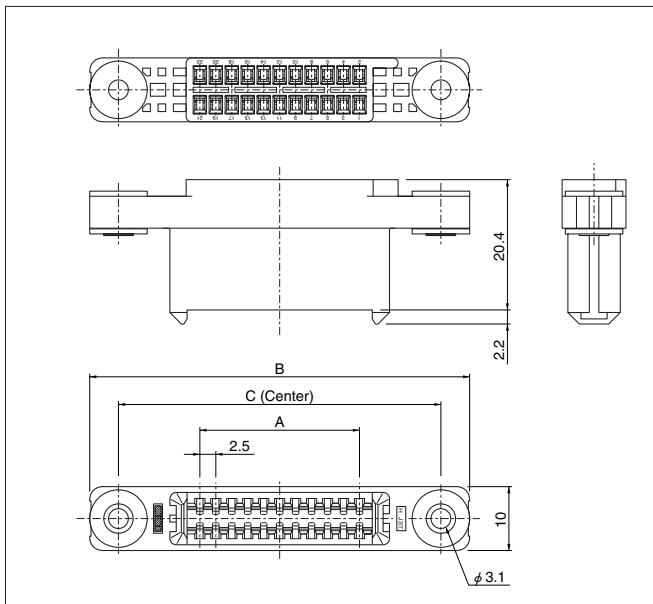
Copper alloy, nickel-undercoated, Mating part: gold-plated

Crimping part: tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
STSF-001GG-M0.6	AP-K2N	MKS-L	MK/STS/D/F001-06	APLMK STS/D/F001-06

Receptacle



Circuits	Model No.	Dimensions (mm)				Q'ty / box
		A	B	C	D	
14	TSFR-14V-K-FB	15.0	49.5	40.5	22.3	486
16	TSFR-16V-K-FB	17.5	52.0	43.0	24.8	432
18	TSFR-18V-K-FB	20.0	54.5	45.5	27.3	378
20	TSFR-20V-K-FB	22.5	57.0	48.0	29.8	378
24	TSFR-24V-K-FB	27.5	62.0	53.0	34.8	324

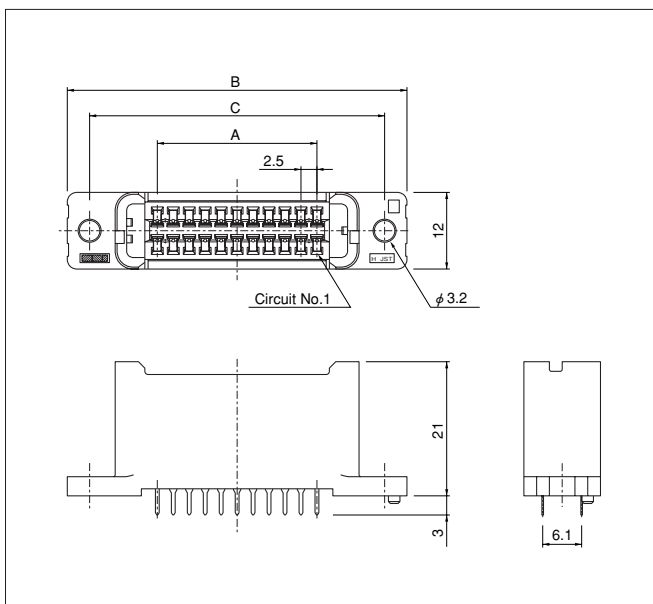
Material and Finish

Washer, Floating rivet: Copper alloy, nickel-plated

Housing: Glass-filled PBT, UL94V-0, black

RoHS compliance

Plug



Circuits	Model No.	Dimensions (mm)			Q'ty / box
		A	B	C	
14	TSFP-14V-K5GG	15.0	43.2	36.2	819
16	TSFP-16V-K5GG	17.5	45.7	38.7	819
18	TSFP-18V-K5GG	20.0	48.2	41.2	819
20	TSFP-20V-K5GG	22.5	50.7	43.7	702
24	TSFP-24V-K5GG	27.5	55.7	48.7	702

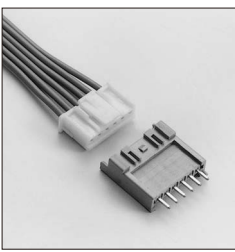
Material and Finish

Contact: Copper alloy, nickel-undercoated, Mating part: gold-plated

Solder tail: tin-plated (reflow treatment)

Housing: Glass-filled PBT, UL94V-0, black

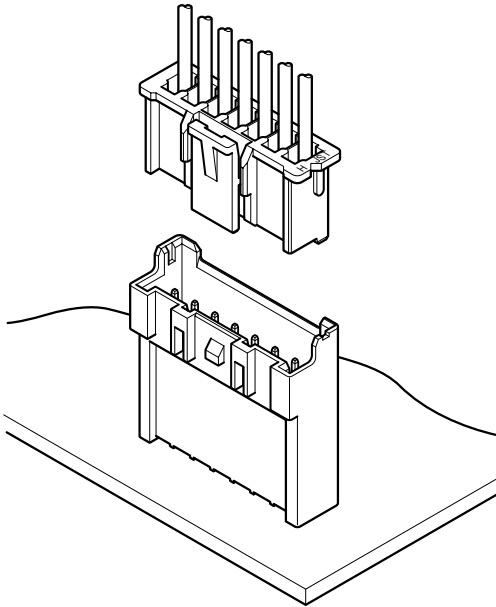
RoHS compliance



XA CONNECTOR<High box type>



2.5mm pitch/Disconnectable Crimp style connectors



XA connector high box type, with 19.5mm mounting height and with 6.9mm thickness.

- Header for 2.5mm pitch XA connector for use specifically with resin coated ("potted") PC boards
- Interchangeability

Specifications

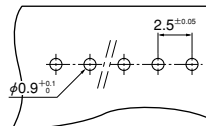
- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,000V AC/minute
- Applicable wire: AWG #28 to #22
- Applicable PC board thickness: 1.6mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

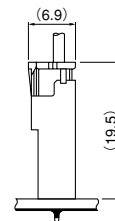
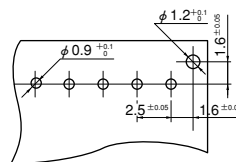
- Recognized E60389
- Ⓢ Certified LR20812
- △ R9851220

PC board layout (viewed from component side) and Assembly layout

Without a boss



With a boss

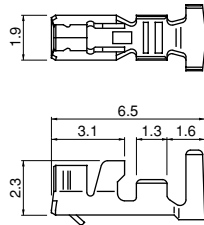


Note:1. Tolerances are non-cumulative: ± 0.05 mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

XA CONNECTOR<High box type>

Contact



Model No.	Applicable wire			Q'ty / reel
	mm ²	AWG#	Insulation O.D. (mm)	
SXA-001T-P0.6	0.08~0.33	28~22	0.8~1.9	8,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

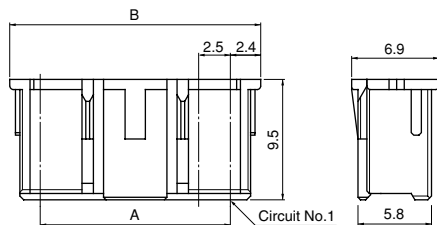
RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXA-001T-P0.6	AP-K2N	MKS-L	MK/SXA/M-001-06	APLMK SXA/M001-06
		*MKS-SC	SC/SXA/M-001-06	APLSC SXA/M001-06

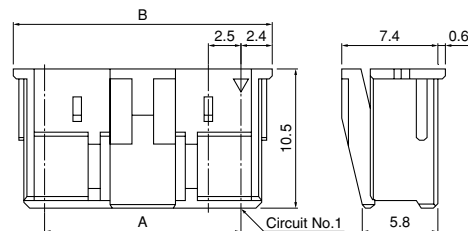
Note: *Strip-crimp applicator

Housing

Standard type



Retainer mountable type



Circuits	Model No.		Dimensions (mm)		Q'ty / bag	
	Standard type	Retainer mountable type	A	B	Standard type	Retainer mountable type
2	XAP-02V-1	XARP-02V	2.5	7.3	1,000	1,000
3	XAP-03V-1	XARP-03V	5.0	9.8	1,000	1,000
4	XAP-04V-1	XARP-04V	7.5	12.3	1,000	1,000
5	XAP-05V-1	XARP-05V	10.0	14.8	1,000	1,000
6	XAP-06V-1	XARP-06V	12.5	17.3	1,000	1,000
7	XAP-07V-1	XARP-07V	15.0	19.8	1,000	1,000
8	XAP-08V-1	XARP-08V	17.5	22.3	1,000	1,000
9	XAP-09V-1	XARP-09V	20.0	24.8	1,000	1,000
10	XAP-10V-1	XARP-10V	22.5	27.3	1,000	1,000
11	XAP-11V-1	XARP-11V	25.0	29.8	1,000	1,000
12	XAP-12V-1	XARP-12V	27.5	32.3	1,000	1,000
13	XAP-13V-1	XARP-13V	30.0	34.8	1,000	1,000
14	XAP-14V-1	XARP-14V	32.5	37.3	500	1,000
15	XAP-15V-1	XARP-15V	35.0	39.8	500	1,000

Material

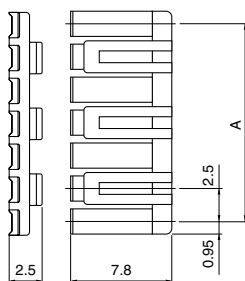
PA 66, UL94V-0, natural (white)

RoHS compliance

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **XAP-02V-1-oo**
(blank)...natural (white)
K...black R...red E...blue M...green Y...yellow

Retainer



Material

Glass-filled PA 66, UL94V-0, natural (ivory)

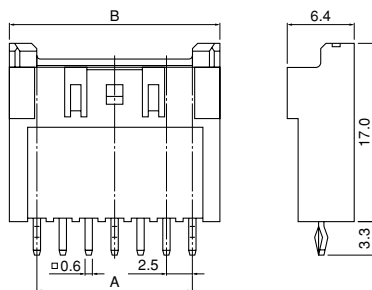
Circuits	Model No.	A	Q'ty / bag
2	XMS-02V	2.5	1,000
3	XMS-03V	5.0	1,000
4	XMS-04V	7.5	1,000
5	XMS-05V	10.0	1,000
6	XMS-06V	12.5	1,000
7	XMS-07V	15.0	1,000
8	XMS-08V	17.5	1,000
9	XMS-09V	20.0	1,000
10	XMS-10V	22.5	1,000
11	XMS-11V	25.0	1,000
12	XMS-12V	27.5	1,000
13	XMS-13V	30.0	1,000
14	XMS-14V	32.5	1,000
15	XMS-15V	35.0	1,000

RoHS compliance

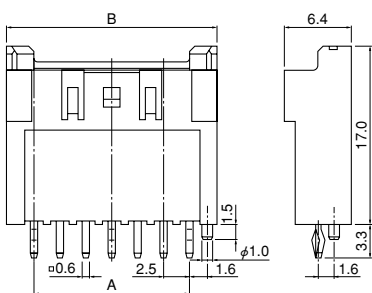
XA CONNECTOR<High box type>

Shrouded header

Without a boss



With a boss



Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Without a boss	With a boss	A	B	
2	BH02B-XASK-BN	BH02B-XASK	2.5	7.5	400
3	BH03B-XASK-BN	BH03B-XASK	5.0	10.0	400
4	BH04B-XASK-BN	BH04B-XASK	7.5	12.5	300
5	BH05B-XASK-BN	BH05B-XASK	10.0	15.0	300
6	BH06B-XASK-BN	BH06B-XASK	12.5	17.5	200
7	BH07B-XASK-BN	BH07B-XASK	15.0	20.0	200
8	BH08B-XASK-BN	BH08B-XASK	17.5	22.5	200
9	BH09B-XASK-BN	BH09B-XASK	20.0	25.0	150
10	BH10B-XASK-BN	BH10B-XASK	22.5	27.5	150
11	BH11B-XASK-BN	BH11B-XASK	25.0	30.0	100
12	BH12B-XASK-BN	BH12B-XASK	27.5	32.5	100
13	BH13B-XASK-BN	BH13B-XASK	30.0	35.0	100
14	BH14B-XASK-BN	BH14B-XASK	32.5	37.5	100
15	BH15B-XASK-BN	BH15B-XASK	35.0	40.0	100

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance This product displays (LF)(SN) on a label.

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

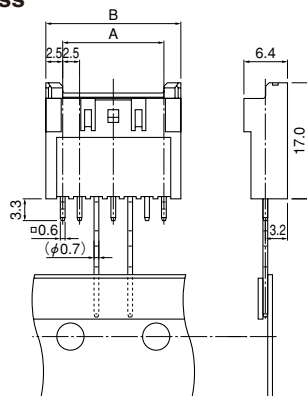
ex. **BH02B-XASK-BN**

S...natural (ivory)

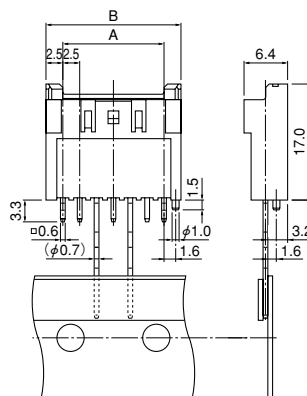
K...black R...red M...green Y...yellow

Shrouded header on radial-tape

Without a boss



With a boss



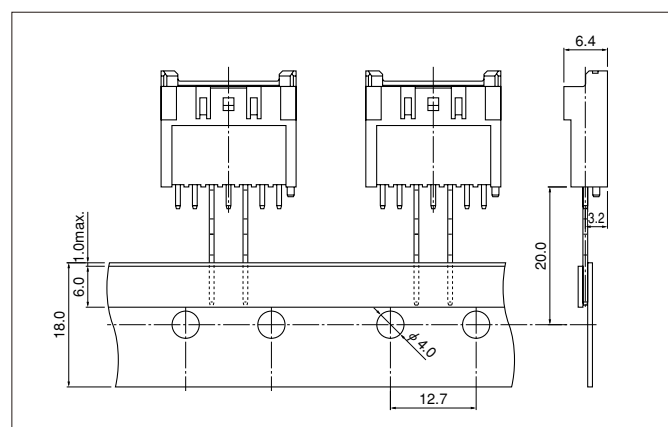
Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Without a boss	With a boss	A	B	
2	BH02B-XASS-BN-T	BH02B-XASS-T	2.5	7.5	1,000
3	BH03B-XASS-BN-T	BH03B-XASS-T	5.0	10.0	1,000
4	BH04B-XASS-BN-T	BH04B-XASS-T	7.5	12.5	500
5	BH05B-XASS-BN-T	BH05B-XASS-T	10.0	15.0	500
6	BH06B-XASS-BN-T	BH06B-XASS-T	12.5	17.5	500
7	BH07B-XASS-BN-T	BH07B-XASS-T	15.0	20.0	500
8	BH08B-XASS-BN-T	BH08B-XASS-T	17.5	22.5	500

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance This product displays (LF)(SN) on a label.

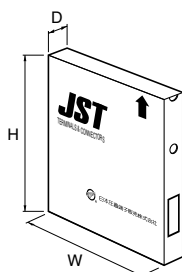
Taping specifications



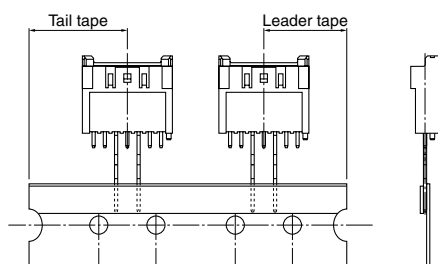
Note: Conforms to JIC C 0806 of "Tape packaging of components with unidirectional leads on continuous tapes".

XA CONNECTOR<High box type>

Packaging specifications



Distance between the end of the tape and the first connector's center line (either end)



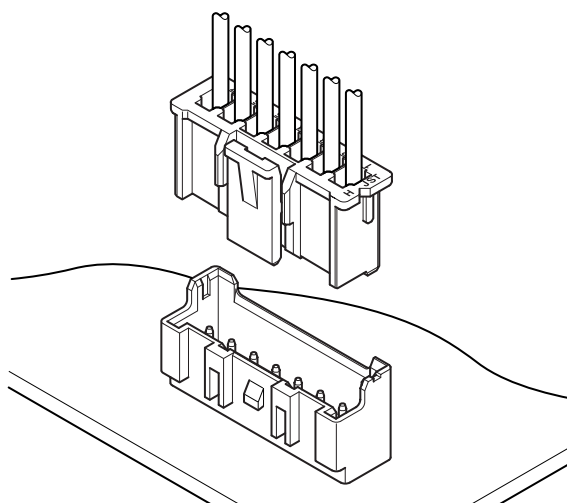
Package type		Flat pack (zigzag folded)
Distance between folds		24 indexing holes per fold (304.8mm)
Box size		314(W)×54(D)×314(H)mm
Distance between the end of the tape and the first connector's center line (either end)		19.05mm
Quantity	2, 3 circuits	1,000 pcs. / box
	4~8 circuits	500 pcs. / box

*Note: Products of different packaging specifications are also available.
Contact JST for details.*



XA CONNECTOR

2.5mm pitch/Disconnectable Crimp style connectors



- **Secure locking device**
- **Solder crack preventive material**
- **Low insertion force**
- **Insertion guide mechanism**
- **Applicable to automatic board mounting machine**
- **Polarizing boss**

Specifications

- Current rating: 3 A AC DC (AWG #22, #20)
- Voltage rating: 250 V AC DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 10 mΩ max.
After environmental tests/ 20 mΩ max.
- Insulation resistance: 1,000 MΩ min.
- Withstanding voltage: 1,000 VAC/minute
- Applicable wire: AWG #28 to #20
- Applicable PC board thickness: 1.6 mm

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

* Compliant with RoHS.

Standards

Recognized E 60389

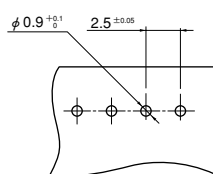
Certified LR 20812

R9851220

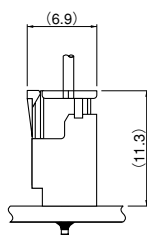
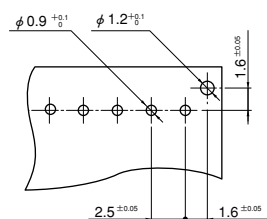
<Through-hole type>

Top entry type

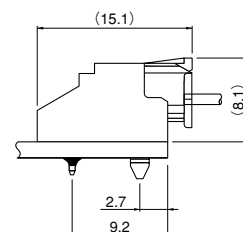
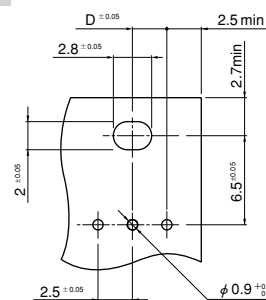
without a boss



with a boss



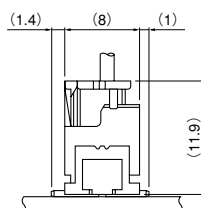
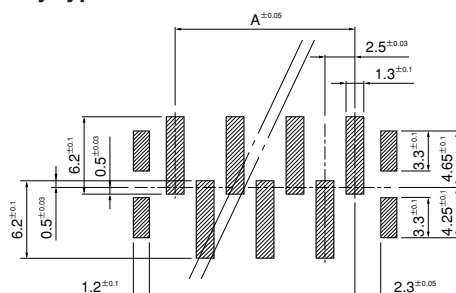
Side entry type



Dimension D: Refer to the Model No. chart of header side entry type.

<SMT type>

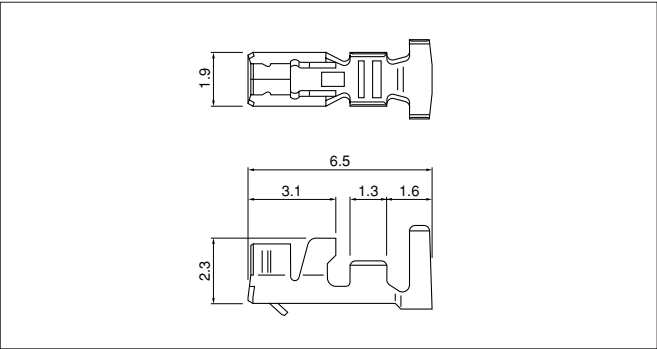
Top entry type



Note: 1. The above figure is the figure viewed from the connector mounting side.
2. Tolerances are non-cumulative: ±0.05mm for all centers.
3. Hole dimensions differ according to the type of PC board and piercing method.
The dimensions above should serve as a guideline. Contact JST for details.

XA CONNECTOR

Contact



Contact	Crimping machine	Applicator			
		Crimp applicator	Dies	Crimp applicator with dies	
SXA-001T-P0.6	AP-K2N	MKS-L	MK/SXA/M-001-06	APLMK SXA/M001-06	
		*MKS-SC	SC/SXA/M-001-06	APLSC SXA/M001-06	
SXA-001T-P0.6L		MKS-L	MK/SXA-001-06L	APLMK SXA001-06L	
		*MKS-SC	SC/SXA-001-06L	APLSC SXA001-06L	

Model No.	Applicable wire			Q'ty / reel
	mm ²	AWG#	Insulation O.D. (mm)	
SXA-001T-P0.6	0.08~0.33	28~22	0.8~1.9	8,000
SXA-01T-P0.6	0.22~0.5	24~20	1.5~1.9	8,000
SXA-001T-P0.6L	0.13~0.33	26~22	1.3~1.7	8,000

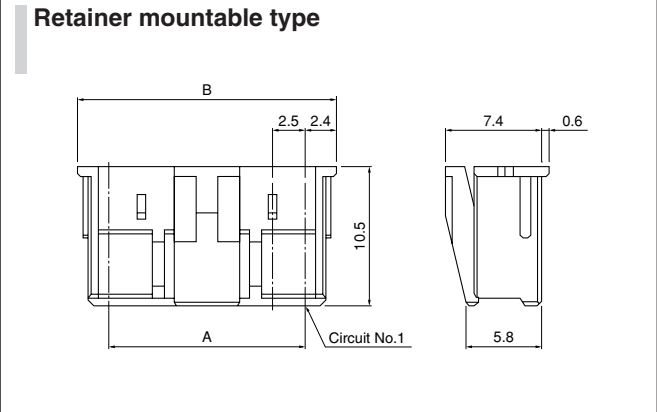
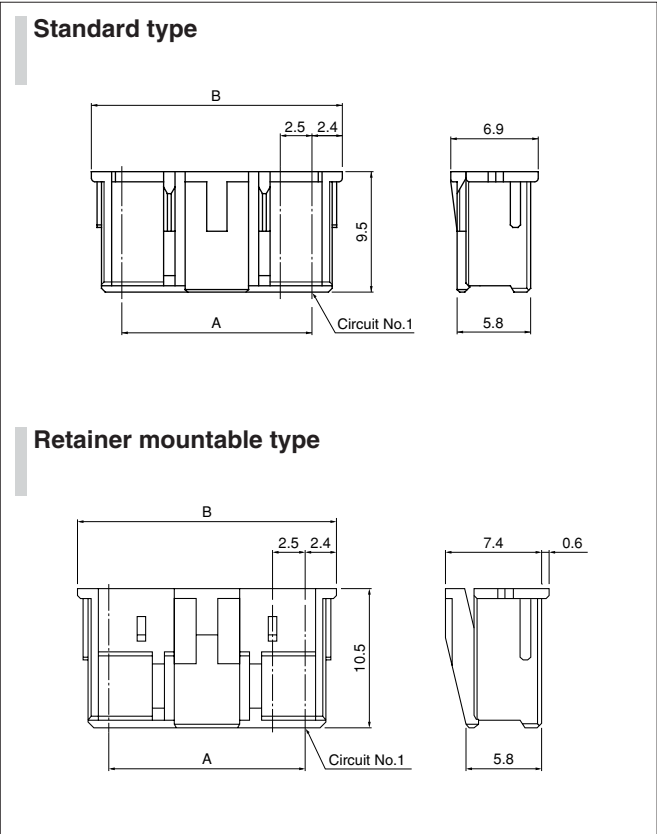
Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance
Note :1. SXA-001T-P0.6L is low-insertion force type contact, for easier insertion/withdrawal, which would be less resistant to the vibration. The crimp height is different from the standard contact.
2. Contact JST for gold-plated products.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXA-01T-P0.6	AP-K2N	MKS-L	MK/SXA/M-01-06	APLMK SXA/M01-06
		*MKS-SC	SC/SXA/M-01-06	APLSC SXA/M01-06

Note: *Strip-crimp applicator

Housing

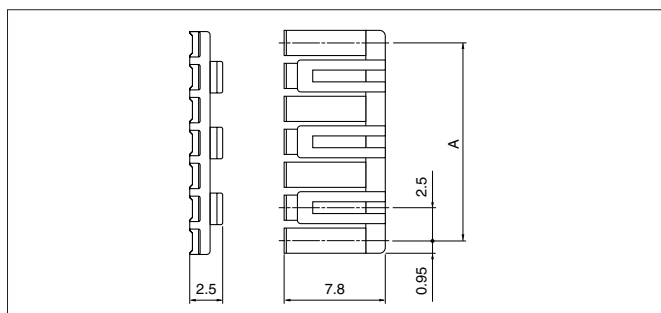


Circuits	Model No.		Dimensions (mm)		Q'ty / bag	
	Standard type	Retainer mountable type	A	B	Standard type	Retainer mountable type
2	XAP-02V-1	XARP-02V	2.5	7.3	1,000	1,000
3	XAP-03V-1	XARP-03V	5.0	9.8	1,000	1,000
4	XAP-04V-1	XARP-04V	7.5	12.3	1,000	1,000
5	XAP-05V-1	XARP-05V	10.0	14.8	1,000	1,000
6	XAP-06V-1	XARP-06V	12.5	17.3	1,000	1,000
7	XAP-07V-1	XARP-07V	15.0	19.8	1,000	1,000
8	XAP-08V-1	XARP-08V	17.5	22.3	1,000	1,000
9	XAP-09V-1	XARP-09V	20.0	24.8	1,000	1,000
10	XAP-10V-1	XARP-10V	22.5	27.3	1,000	1,000
11	XAP-11V-1	XARP-11V	25.0	29.8	1,000	1,000
12	XAP-12V-1	XARP-12V	27.5	32.3	1,000	1,000
13	XAP-13V-1	XARP-13V	30.0	34.8	1,000	1,000
14	XAP-14V-1	XARP-14V	32.5	37.3	500	1,000
15	XAP-15V-1	XARP-15V	35.0	39.8	500	1,000
18	—	XARP-18V	42.5	47.3	—	500
20	XAP-20V-1	—	47.5	52.3	500	—

Material
PA 66, UL94V-0, natural (white)

RoHS compliance
<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.
<Standard type>
ex. **XAP-02V-1-oo**
(blank)...natural (white)
K...black R...red E...blue Y...yellow L...lemon yellow
M...green O...orange N...brown H...gray P...purple
LE...light blue PK...pink FY...vivid yellow Z...ivory
<Retainer mountable type>
ex. **XARP-02V-oo**
(blank)...natural (white)
K...black R...red E...blue L...lemon yellow

Retainer



Material

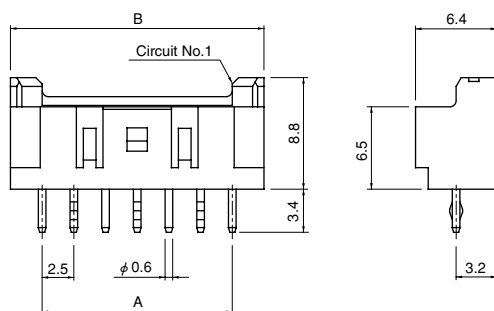
Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance

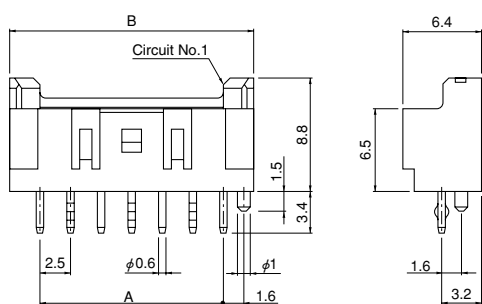
Circuits	Model No.	A	Q'ty / bag
2	XMS-02V	2.5	1,000
3	XMS-03V	5.0	1,000
4	XMS-04V	7.5	1,000
5	XMS-05V	10.0	1,000
6	XMS-06V	12.5	1,000
7	XMS-07V	15.0	1,000
8	XMS-08V	17.5	1,000
9	XMS-09V	20.0	1,000
10	XMS-10V	22.5	1,000
11	XMS-11V	25.0	1,000
12	XMS-12V	27.5	1,000
13	XMS-13V	30.0	1,000
14	XMS-14V	32.5	1,000
15	XMS-15V	35.0	1,000

Through-hole type shrouded header

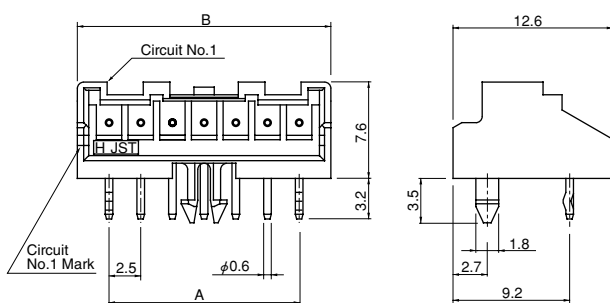
Top entry type without a boss



Top entry type with a boss



Side entry type with a hook



Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Top entry type		A	B	
	Without a boss	With a boss			
2	B02B-XASK-1	B02B-XASK-1-A	2.5	7.5	1,000
3	B03B-XASK-1	B03B-XASK-1-A	5.0	10.0	400
4	B04B-XASK-1	B04B-XASK-1-A	7.5	12.5	400
5	B05B-XASK-1	B05B-XASK-1-A	10.0	15.0	400
6	B06B-XASK-1	B06B-XASK-1-A	12.5	17.5	400
7	B07B-XASK-1	B07B-XASK-1-A	15.0	20.0	250
8	B08B-XASK-1	B08B-XASK-1-A	17.5	22.5	250
9	B09B-XASK-1	B09B-XASK-1-A	20.0	25.0	250
10	B10B-XASK-1	B10B-XASK-1-A	22.5	27.5	250
11	B11B-XASK-1	B11B-XASK-1-A	25.0	30.0	200
12	B12B-XASK-1	B12B-XASK-1-A	27.5	32.5	200
13	B13B-XASK-1	B13B-XASK-1-A	30.0	35.0	100
14	B14B-XASK-1	B14B-XASK-1-A	32.5	37.5	100
15	B15B-XASK-1	B15B-XASK-1-A	35.0	40.0	100
20	B20B-XASK-1	B20B-XASK-1-A	47.5	52.5	100

Material and Finish

Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance This product displays (LF)(SN) on a label.

Note: Contact JST for gold-plated products.

Circuits	Model No.	Dimensions (mm)			Q'ty / box
	Side entry type with a hook	A	B	D	
2	S02B-XASS-1	2.5	7.5	1.25	250
3	S03B-XASK-1	5.0	10.0	2.50	250
4	S04B-XASK-1	7.5	12.5	3.75	200
5	S05B-XASK-1	10.0	15.0	5.00	200
6	S06B-XASK-1	12.5	17.5	6.25	200
7	S07B-XASK-1	15.0	20.0	7.50	200
8	S08B-XASK-1	17.5	22.5	8.75	100
9	S09B-XASK-1	20.0	25.0	10.00	100
10	S10B-XASK-1	22.5	27.5	11.25	100
11	S11B-XASK-1	25.0	30.0	12.50	100
12	S12B-XASK-1	27.5	32.5	13.75	100
13	S13B-XASK-1	30.0	35.0	15.00	100
14	S14B-XASK-1	32.5	37.5	16.25	100

Material and Finish

Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance This product displays (LF)(SN) on a label.

Note: 1. Dimension D...See PC board layout.

2. Contact JST for gold-plated products.

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

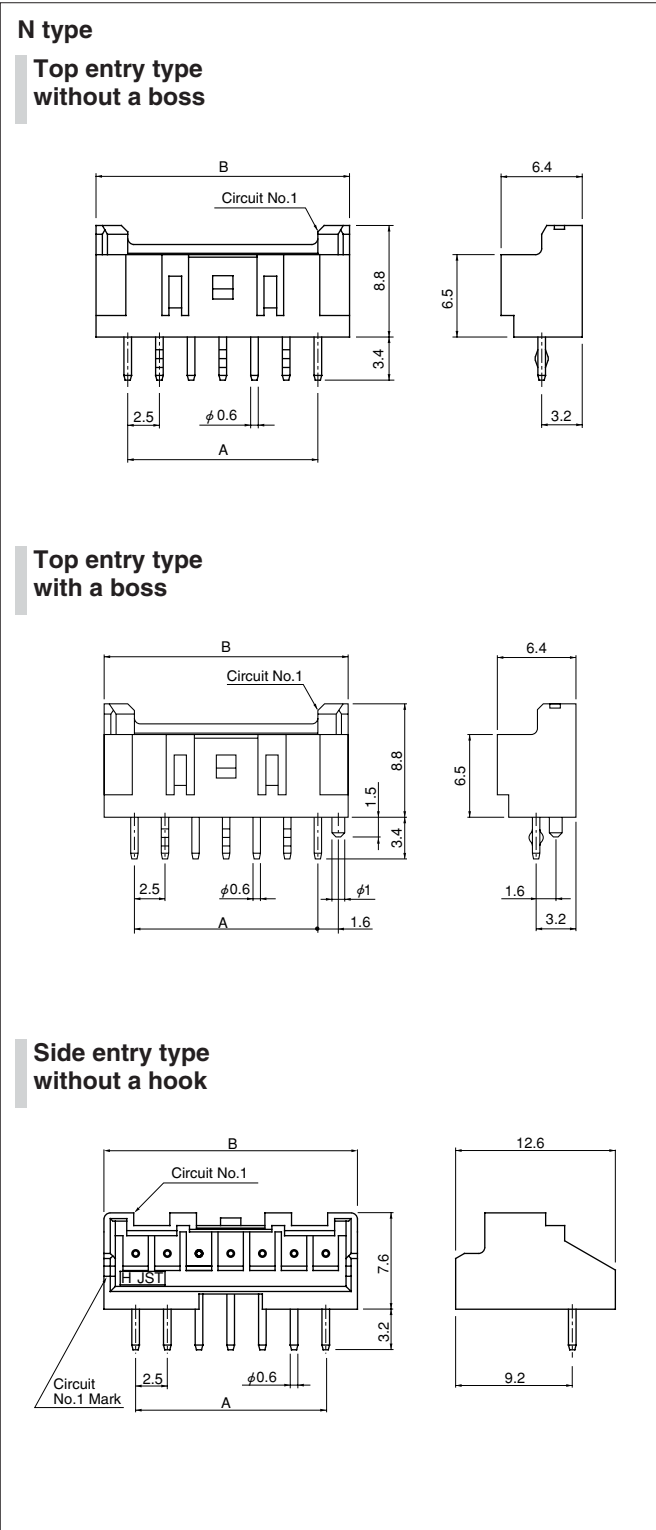
ex. **S02B-XASK-1**

S...natural (ivory)

K...black R...red E...blue M...green Y...yellow

XA CONNECTOR

Through-hole type shrouded header



Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Top entry type		A	B	
	Without a boss	With a boss			
2	B02B-XASK-1N	B02B-XASK-1N-A	2.5	7.5	1,000
3	B03B-XASK-1N	B03B-XASK-1N-A	5.0	10.0	400
4	B04B-XASK-1N	B04B-XASK-1N-A	7.5	12.5	400
5	B05B-XASK-1N	B05B-XASK-1N-A	10.0	15.0	400
6	B06B-XASK-1N	B06B-XASK-1N-A	12.5	17.5	400
7	B07B-XASK-1N	B07B-XASK-1N-A	15.0	20.0	250
8	B08B-XASK-1N	B08B-XASK-1N-A	17.5	22.5	250
9	B09B-XASK-1N	B09B-XASK-1N-A	20.0	25.0	250
10	B10B-XASK-1N	B10B-XASK-1N-A	22.5	27.5	250
11	B11B-XASK-1N	B11B-XASK-1N-A	25.0	30.0	200
12	B12B-XASK-1N	B12B-XASK-1N-A	27.5	32.5	200
13	B13B-XASK-1N	B13B-XASK-1N-A	30.0	35.0	100
14	B14B-XASK-1N	B14B-XASK-1N-A	32.5	37.5	100
15	B15B-XASK-1N	B15B-XASK-1N-A	35.0	40.0	100
18	B18B-XASK-1N	—	42.5	47.5	100

Material and Finish	
Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)	
Wafer: Glass-filled PA 66, UL94V-0, natural (white)	

RoHS compliance This product displays (LF)(SN) on a label.

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **B02B-XASK-1N-A**
S...natural (white)
K...black R...red E...blue Y...yellow L...lemon yellow
M...green O...orange N...brown H...gray P...purple
LE...light blue PK...pink FY...vivid yellow

Circuits	Model No.	Dimensions (mm)		Q'ty / box
	Side entry type without a hook	A	B	
2	S02B-XASS-1N-BN	2.5	7.5	250
3	S03B-XASS-1N-BN	5.0	10.0	250
4	S04B-XASS-1N-BN	7.5	12.5	200
5	S05B-XASS-1N-BN	10.0	15.0	200
6	S06B-XASS-1N-BN	12.5	17.5	200
7	S07B-XASS-1N-BN	15.0	20.0	200
8	S08B-XASS-1N-BN	17.5	22.5	100
9	S09B-XASS-1N-BN	20.0	25.0	100
10	S10B-XASS-1N-BN	22.5	27.5	100
11	S11B-XASS-1N-BN	25.0	30.0	100
12	S12B-XASS-1N-BN	27.5	32.5	100
13	S13B-XASS-1N-BN	30.0	35.0	100
14	S14B-XASS-1N-BN	32.5	37.5	100

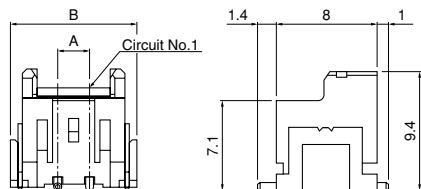
Material and Finish	
Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)	
Wafer: Glass-filled PA 66, UL94V-0, natural (white)	

RoHS compliance This product displays (LF)(SN) on a label.

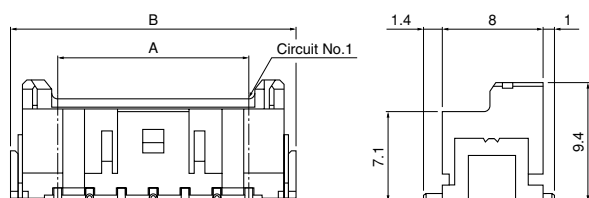
Note: 1. As for side entry type, we recommend to use a product with a boss (hook) because stress is applied directly to fillet part when handling the wire. When using the side entry type product without a boss (hook), please handle the wire with care.

SMT type shrouded header

<2 circuits>



<3 to 9, 12, 13, 15 circuits>



Circuits	Model No.	Dimensions (mm)		Q'ty / reel
	Top entry type	A	B	
2	BM02B-XASS-TF	2.5	10.0	500
3	BM03B-XASS-TF	5.0	12.5	500
4	BM04B-XASS-TF	7.5	15.0	500
5	BM05B-XASS-TF	10.0	17.5	500
6	BM06B-XASS-TF	12.5	20.0	500
7	BM07B-XASS-TF	15.0	22.5	500
8	BM08B-XASS-TF	17.5	25.0	500
9	BM09B-XASS-TF	20.0	27.5	500
12	BM12B-XASS-TF	27.5	35.0	500
13	BM13B-XASS-TF	30.0	37.5	500
15	BM15B-XASS-TF	35.0	42.5	500

Material and Finish

Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
 Wafer: PA, UL94V-0, natural
 Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **BM02B-XASS-TF**

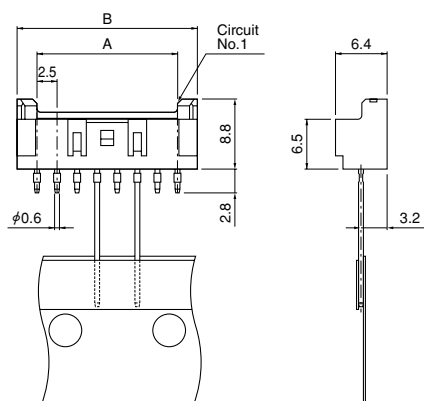
S...natural

K...black R...red E...blue M...green D...orange

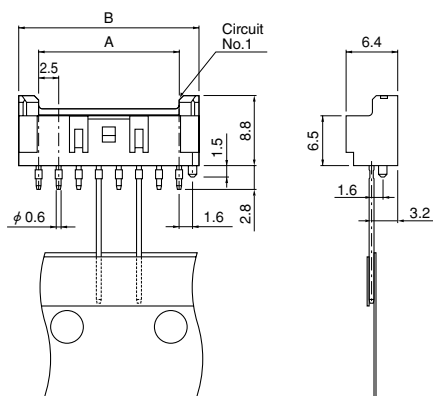
L...lemon yellow

Through-hole type shrouded header on radial-tape

Top entry type without a boss



Top entry type with a boss



Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Top entry type without a boss	Top entry type with a boss	A	B	
2	B02B-XASS-1-T	—	2.5	7.5	1,000
3	B03B-XASS-1-T	B03B-XASS-1-A-T	5.0	10.0	1,000
4	B04B-XASS-1-T	B04B-XASS-1-A-T	7.5	12.5	500
5	B05B-XASS-1-T	B05B-XASS-1-A-T	10.0	15.0	500
6	B06B-XASS-1-T	B06B-XASS-1-A-T	12.5	17.5	500
7	B07B-XASS-1-T	B07B-XASS-1-A-T	15.0	20.0	500
8	B08B-XASS-1-T	B08B-XASS-1-A-T	17.5	22.5	500

Material and Finish

Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
 Wafer: Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance This product displays (LF)(SN) on a label.

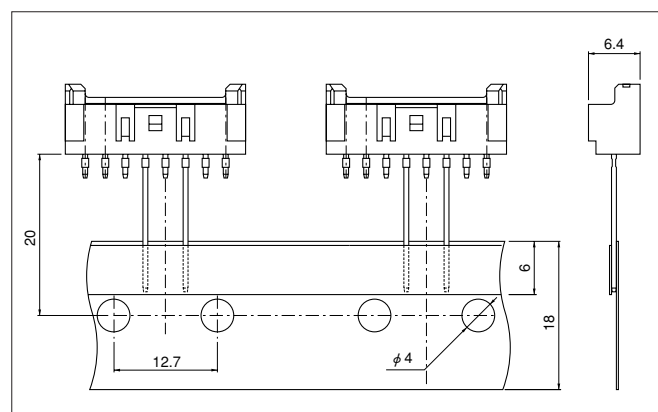
<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **B03B-XASS-1-A-T**

S...natural (ivory)

R...red E...blue M...green

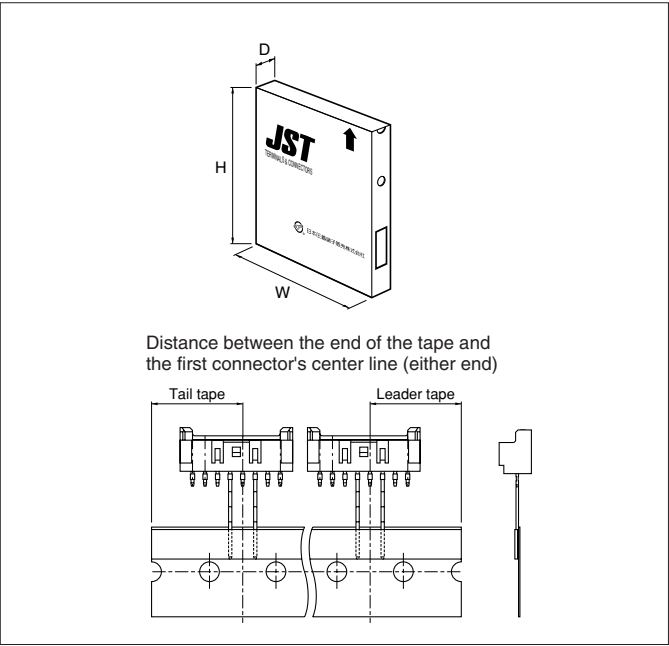
Taping specifications



Note: Conforms to JIC C 0806 of "Tape packaging of components with unidirectional leads on continuous tapes".

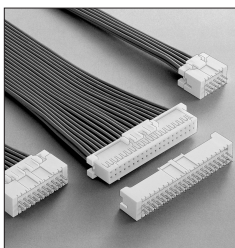
XA CONNECTOR

Packaging specifications



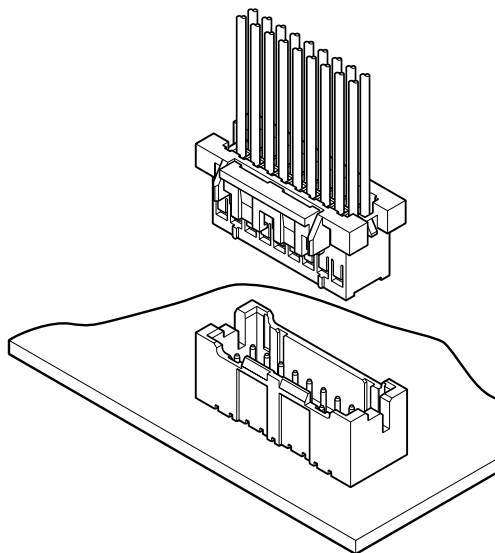
Package type	Flat pack (zigzag folded)	
Distance between folds	24 indexing holes per fold (304.8mm)	
Box size	316(W)×45(D)×330(H)mm	
Distance between the end of the tape and the first connector's center line (either end)	19.05mm	
Quantity	2, 3 circuits	1,000 pcs. / box
	4~8 circuits	500 pcs. / box

*Note: Products of different packaging specifications are also available.
Contact JST for details.*



XAD CONNECTOR

2.5mm pitch/Disconnectable Crimp style connectors



Double-row construction connector with secure locking device.

- Secure locking device
- Solder crack preventive material
- Polarizing boss
- Mis-insertion preventive design

Specifications

- Current rating: 3A AC, DC (AWG #20)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,000V AC/minute
- Applicable wire: AWG #28 to #20
- Applicable PC board thickness: 1.6mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

Recognized E60389

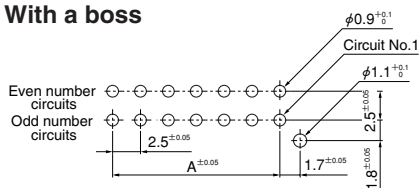
Certified LR20812

R9851219

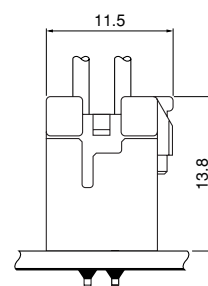
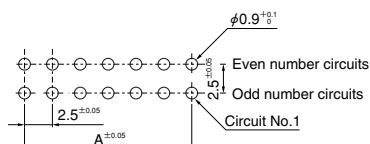
PC board layout (viewed from component side) and Assembly layout

Top entry type

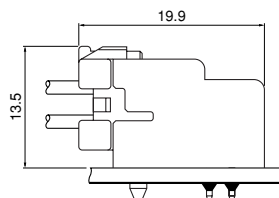
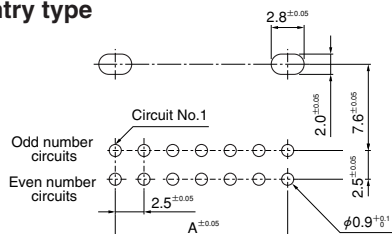
With a boss



Without a boss



Side entry type

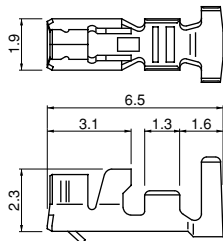


Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

XAD CONNECTOR

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SXA-01T-P0.6	0.22~0.5	24~20	1.5~1.9	8,000
SXA-001T-P0.6	0.08~0.33	28~22	0.8~1.9	8,000
SXA-001T-P0.6L	0.13~0.33	26~22	1.3~1.7	8,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

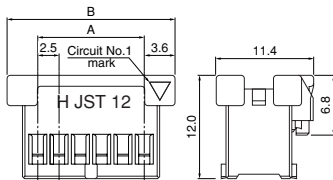
Note: 1. SXA-001T-P0.6L is low-insertion force type contact, for easier insertion/withdrawal, which would be less resistant to the vibration. The crimp height is different from the standard contact.
2. Contact JST for gold-plated products.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXA-01T-P0.6	AP-K2N	MKS-L	MK/SXA/M-001-06	APLMK SXA/M001-06
		*MKS-SC	SC/SXA/M-001-06	APLSC SXA/M001-06
SXA-001T-P0.6L		MKS-L	MK/SXA-001-06L	APLMK SXA001-06L
		*MKS-SC	SC/SXA-001-06L	APLSC SXA001-06L

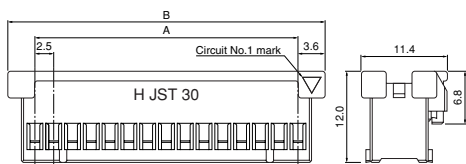
Note:*Strip-crimp applicator

Housing

(8 to 16 circuits)



(18 to 40 circuits)



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
8	XADRP-08V	7.5	14.7	1,000
10	XADRP-10V	10.0	17.2	1,000
12	XADRP-12V	12.5	19.7	1,000
14	XADRP-14V	15.0	22.2	1,000
16	XADRP-16V	17.5	24.7	1,000
18	XADRP-18V	20.0	27.2	1,000
20	XADRP-20V	22.5	29.7	500
22	XADRP-22V	25.0	32.2	500
24	XADRP-24V	27.5	34.7	500
26	XADRP-26V	30.0	37.2	500
28	XADRP-28V	32.5	39.7	500
30	XADRP-30V	35.0	42.2	500
32	XADRP-32V	37.5	44.7	500
34	XADRP-34V	40.0	47.2	500
36	XADRP-36V	42.5	49.7	250
40	XADRP-40V	47.5	54.7	250

Material

PA 66, UL94V-0, natural (white)

RoHS compliance

Note: Contact JST if retainers are required.

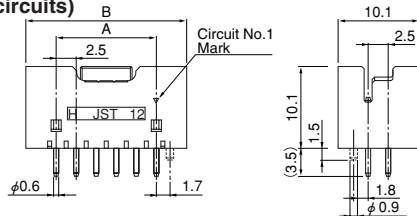
<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **XADRP-08V-oo**
(blank)...natural (white)
K...black R...red E...blue O...orange M...green
L...lemon yellow PK...pink

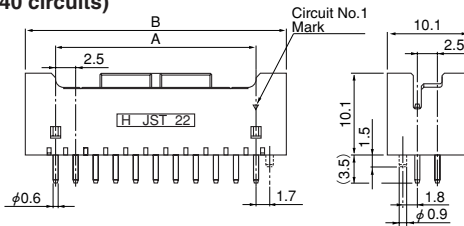
Shrouded header

Top entry type

(8 to 16 circuits)

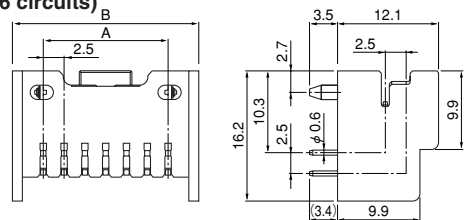


(18 to 40 circuits)

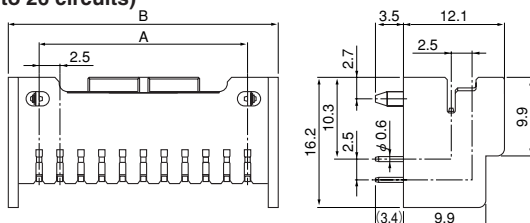


Side entry type

(8 to 16 circuits)



(18 to 26 circuits)



Circuits	Model No.			Dimensions (mm)		Q'ty / box	
	Top entry type		Side entry type	A	B	Top entry type	Side entry type
	Without a boss	With a boss					
8	B08B-XADSS-N	B08B-XADSS-N-A	S08B-XADSS-N	7.5	15.0	200	270
10	B10B-XADSS-N	B10B-XADSS-N-A	S10B-XADSS-N	10.0	17.5	200	234
12	B12B-XADSS-N	B12B-XADSS-N-A	S12B-XADSS-N	12.5	20.0	200	198
14	B14B-XADSS-N	B14B-XADSS-N-A	S14B-XADSS-N	15.0	22.5	150	180
16	B16B-XADSS-N	B16B-XADSS-N-A	S16B-XADSS-N	17.5	25.0	150	162
18	B18B-XADSS-N	B18B-XADSS-N-A	S18B-XADSS-N	20.0	27.5	150	144
20	B20B-XADSS-N	B20B-XADSS-N-A	S20B-XADSS-N	22.5	30.0	100	126
22	B22B-XADSS-N	B22B-XADSS-N-A	—	25.0	32.5	100	—
24	B24B-XADSS-N	B24B-XADSS-N-A	—	27.5	35.0	100	—
26	B26B-XADSS-N	B26B-XADSS-N-A	S26B-XADSS-N	30.0	37.5	100	108
28	B28B-XADSS-N	B28B-XADSS-N-A	—	32.5	40.0	100	—
30	B30B-XADSS-N	B30B-XADSS-N-A	—	35.0	42.5	50	—
32	B32B-XADSS-N	B32B-XADSS-N-A	—	37.5	45.0	50	—
34	B34B-XADSS-N	B34B-XADSS-N-A	—	40.0	47.5	50	—
36	B36B-XADSS-N	B36B-XADSS-N-A	—	42.5	50.0	50	—
40	B40B-XADSS-N	B40B-XADSS-N-A	—	47.5	55.0	50	—

Material and Finish

Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PA 66, UL94V-0, natural (white)

RoHS compliance This product displays (LF)(SN) on a label.
Note: Contact JST for the headers with gold-plated pins.

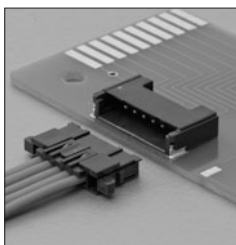
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **B08B-XADSS-N**

S...natural (white)

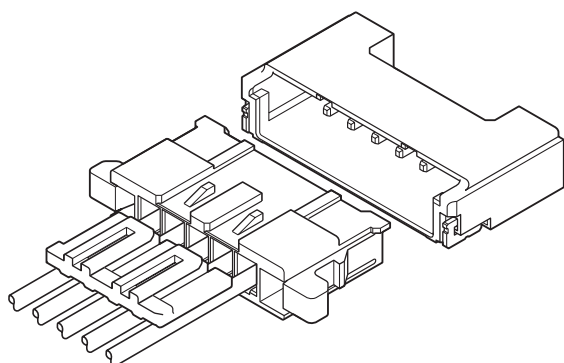
K...black R...red E...blue O...orange M...green

L...lemon yellow PK...pink



XAG CONNECTOR

2.5mm pitch/Disconnectable Crimp style connectors



This is a 2.5mm pitch, crimp style, wire-to-board connector.

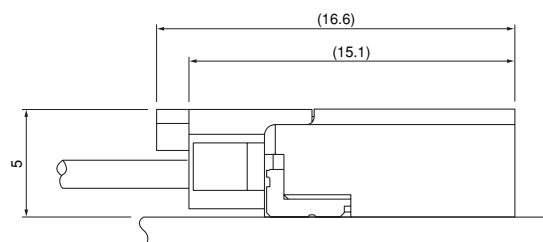
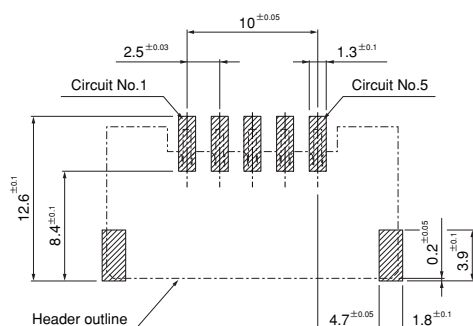
- **Secure locking device**
- **Low profile**
- **Retainer mountable type**

Specifications

- Current rating: 3A AC, DC (AWG #20)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 10m Ω max.
After environmental testing/ 20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,000V AC/minute
- Applicable wire: AWG #24 to #20

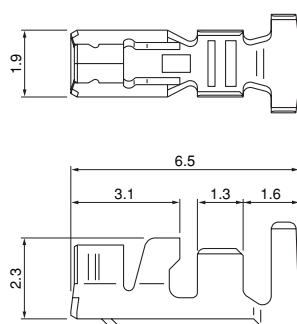
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ± 0.05 mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SXA-01T-P0.6	0.22~0.5	24~20	1.5~1.9	8,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

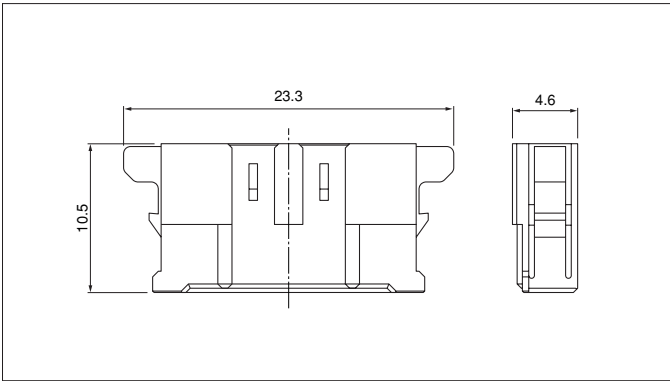
RoHS compliance

Note: Contact JST for gold-plated products.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXA-01T-P0.6	AP-K2N	MKS-L	MK/SXA/M-01-06	APLMK SXA/M01-06
		*MKS-SC	SC/SXA/M-01-06	APLSC SXA/M01-06

Note: *Strip-crimp applicator

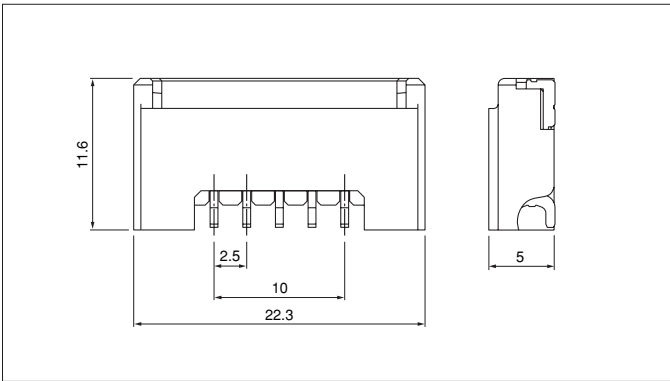
Housing



Circuits	Model No.	Q'ty / bag
5	XAGRP-051-K	2,000
Material		
PBT, UL94V-0, black		

RoHS compliance

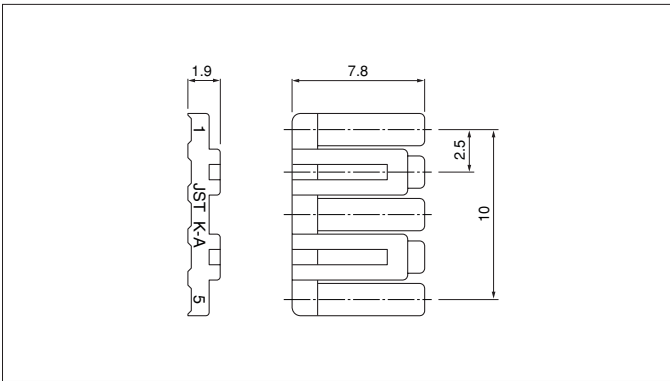
Shrouded header



Circuits	Model No.	Q'ty / reel
5	SM05B-XAGKS-BN-TB	1,000
Material and Finish		
Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)		
Wafer: PA 6T, UL94V-0, black		
Reinforcing tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)		

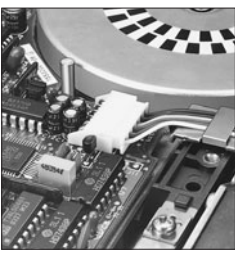
RoHS compliance This product displays (LF)(SN) on a label.
This products listed above are supplied on embossed-tape.

Retainer



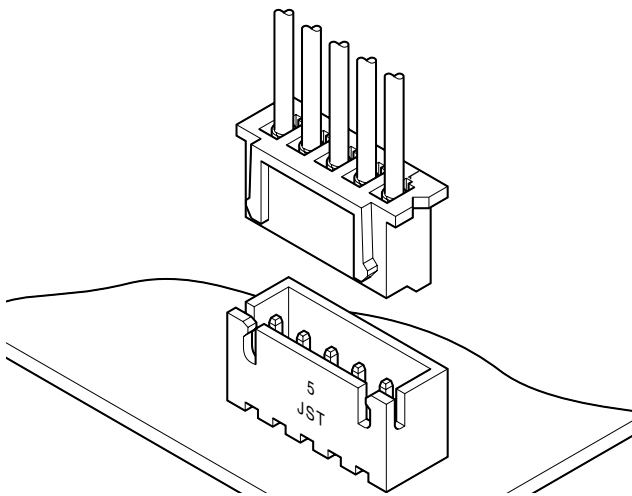
Circuits	Model No.	Q'ty / bag
5	XAGS-053-K	5,000
Material		
PA 66, UL94V-0, black		

RoHS compliance



XH CONNECTOR

2.5mm pitch/Disconnectable Crimp style connectors



The XH connector was developed based on the high reliability and versatility of our NH series connectors. The connector is very small with a mounting height of 9.8mm.

- Original folded beam contact
- Box-shaped shrouded header
- Header with a boss
- Interchangeability
- Conforming to the HA terminal

Specifications

- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 10 mΩ max.
After environmental tests/ 20 mΩ max.
- Insulation resistance: 1,000 MΩ min.
- Withstanding voltage: 1,000 V AC/minute
- Applicable wire: AWG #30 to #22
- Applicable PC board thickness: 1.6 mm

- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Compliant with RoHS.

Standards

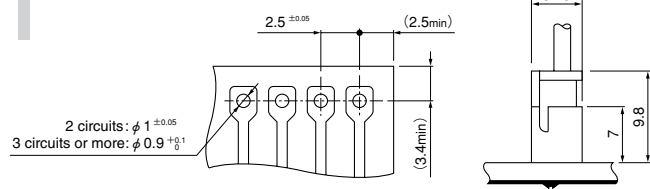
Recognized E60389

Certified LR20812

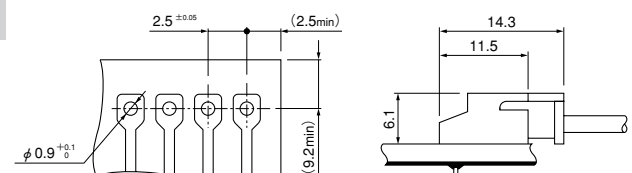
J50014297

Through-hole type (viewed from soldering side)

Top entry type

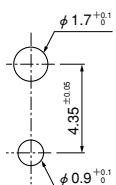


Side entry type

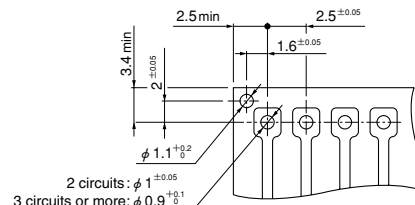


Top entry type with a boss

<Single circuit>



<2 circuits or more>

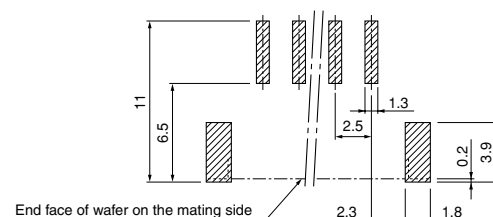


Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimensions differ according to the type of PC board and piercing method. If PC boards made of hard material are used, the hole dimensions should be larger. The dimensions above should serve as a guideline. Contact JST for details.

SMT type (viewed from component side)

Side entry type

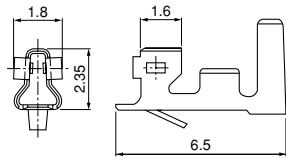


Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

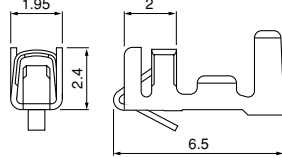
2. The dimensions above should serve as a guideline. Contact JST for details.

Contact

● Shape A



● Shape B



Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXH-001T-P0.6N	AP-K2N	MKS-L	MK/SXH-001-06N	APLMK SXH001-06N
		*MKS-SC	SC/SXH-001-06N	APLSC SXH001-06N
SXH-001T-P0.6		MKS-L	MK/SXH-001-06	APLMK SXH001-06
		*MKS-SC	SC/SXH-001-06	APLSC SXH001-06

Note: *Strip-crimp applicator

Model No.	Shape	Applicable Wire		Insulation O.D (mm)	Q'ty / reel
		mm ²	AWG#		
SXH-001T-P0.6N	A	0.13~0.33	26~22	1.3~1.9	5,000
SXH-001T-P0.6	B	0.08~0.33	28~22	0.9~1.9	8,000
SXH-002T-P0.6		0.05~0.13	30~26	0.9~1.3	

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

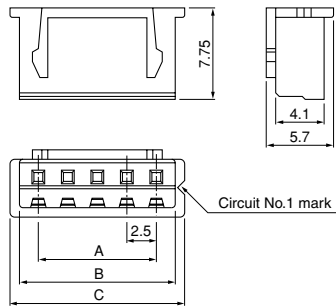
RoHS compliance

Note:

1. Contact JST if you require gold-plated contacts or contacts made of brass.
2. Contact JST also if you require shielded wires, thin wires or other special wires.
3. SXH-001T-P0.6N is low-insertion force type contact, for easier insertion/ withdrawal, which would be less resistant to the vibration.

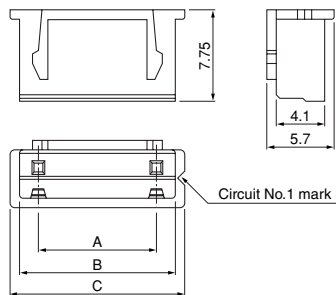
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXH-002T-P0.6	AP-K2N	MKS-L	MK/SXH-002-06	APLMK SXH002-06
		*MKS-SC	SC/SXH-002-06	APLSC SXH002-06

Housing

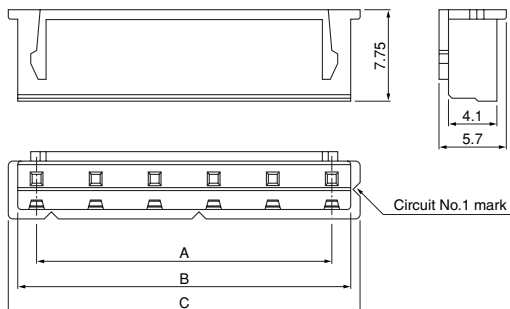


● Plugged up

<2 circuits 10.0mm pitch>



<6 circuits 5.0mm pitch>



Circuits	Model No.	Dimensions (mm)			Q'ty / bag
		A	B	C	
1	XHP-1	—	3.2	4.8	1,000
2	XHP-2	2.5	5.7	7.3	1,000
2	XHP-2(10.0)-U	10.0	13.2	14.8	1,000
3	XHP-3	5.0	8.2	9.8	1,000
4	XHP-4	7.5	10.7	12.3	1,000
5	XHP-5	10.0	13.2	14.8	1,000
6	XHP-6	12.5	15.7	17.3	1,000
6	XHP-6(5.0)-U	25.0	28.2	29.8	1,000
7	XHP-7	15.0	18.2	19.8	1,000
8	XHP-8	17.5	20.7	22.3	1,000
9	XHP-9	20.0	23.2	24.8	1,000
10	XHP-10	22.5	25.7	27.3	1,000
11	XHP-11	25.0	28.2	29.8	1,000
12	XHP-12	27.5	30.7	32.3	1,000
13	XHP-13	30.0	33.2	34.8	1,000
14	XHP-14	32.5	35.7	37.3	1,000
15	XHP-15	35.0	38.2	39.8	1,000
16	XHP-16	37.5	40.7	42.3	1,000
20	XHP-20	47.5	50.7	52.3	500

Material

PA 6, UL94V-0, natural (white)

RoHS compliance

Note:

1. XHP-2(10.0)-U is 2 circuits 10.0mm pitch plugged up.
Not UL/CSA/TÜV approved.
2. XHP-6(5.0)-U is 6 circuits 5.0mm pitch plugged up.
Not UL/CSA/TÜV approved.

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **XHP-1-oo**

(blank)...natural (white)

BK...black R...red E...blue Y...yellow L...lemon yellow

M...green D...orange N...brown FY...vivid yellow

<Plugged up type>

ex. **XHP-2(10.0)-U-oo**

(blank)...natural (white)

R...red E...blue

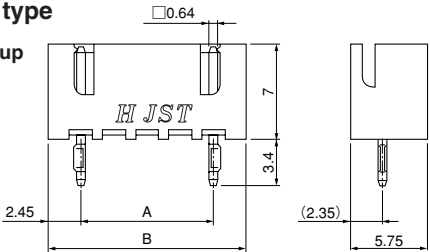
XH CONNECTOR

Through-hole type shrouded header

The shrouded headers are interchangeable with those of the NR and NRD insulation displacement connectors, and JQ board-to-board connectors.

Top entry type

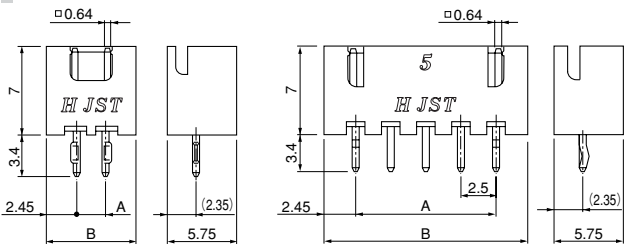
● plugged up



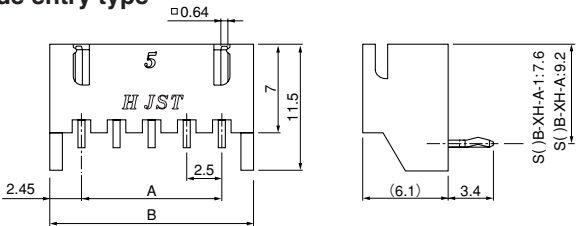
Top entry type

<2 circuits>

<3 circuits or more>



Side entry type



Circuits	Model No.			Dimensions (mm)		Q'ty / box	
	Top entry type	Side entry type		A	B	Top entry type	Side entry type
2	B2B-XH-A	S2B-XH-A-1	S2B-XH-A	2.5	7.4	1,000	1,000
2	B2(10.0)B-XH-A-U	—	—	10.0	14.9	1,000	—
3	B3B-XH-A	S3B-XH-A-1	S3B-XH-A	5.0	9.9	1,000	1,000
4	B4B-XH-A	S4B-XH-A-1	S4B-XH-A	7.5	12.4	500	500
5	B5B-XH-A	S5B-XH-A-1	S5B-XH-A	10.0	14.9	500	500
6	B6B-XH-A	S6B-XH-A-1	S6B-XH-A	12.5	17.4	500	500
7	B7B-XH-A	S7B-XH-A-1	S7B-XH-A	15.0	19.9	500	250
8	B8B-XH-A	S8B-XH-A-1	S8B-XH-A	17.5	22.4	250	250
9	B9B-XH-A	S9B-XH-A-1	S9B-XH-A	20.0	24.9	250	250
10	B10B-XH-A	S10B-XH-A-1	S10B-XH-A	22.5	27.4	250	250
11	B11B-XH-A	S11B-XH-A-1	S11B-XH-A	25.0	29.9	250	250
12	B12B-XH-A	S12B-XH-A-1	S12B-XH-A	27.5	32.4	250	200
13	B13B-XH-A	S13B-XH-A-1	S13B-XH-A	30.0	34.9	250	200
14	B14B-XH-A	S14B-XH-A-1	S14B-XH-A	32.5	37.4	250	200
15	B15B-XH-A	S15B-XH-A-1	S15B-XH-A	35.0	39.9	250	100
16	B16B-XH-A	—	S16B-XH-A	37.5	42.4	200	100
20	B20B-XH-A	—	—	47.5	52.4	100	—

Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, natural (white)

RoHS compliance This product displays (LF)(SN) on a label.
Note: B2(10.0)B-XH-A-U is 2 circuits 10.0mm pitch plugged up.
Not UL/CSA/TÜV approved.

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **S3B-XH-A(-1)-oo**

(blank)...natural (white)

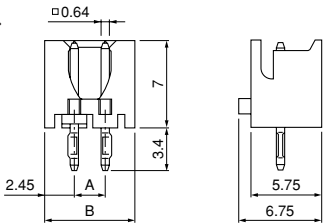
BK...black R...red E...blue Y...yellow L...lemon yellow

M...green D...orange N...brown FY...vivid yellow

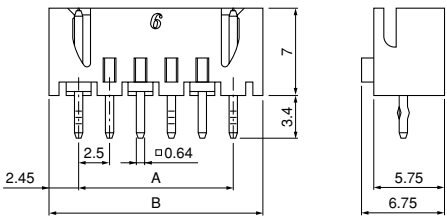
Through-hole type shrouded header

Top entry type of glass-filled nylon

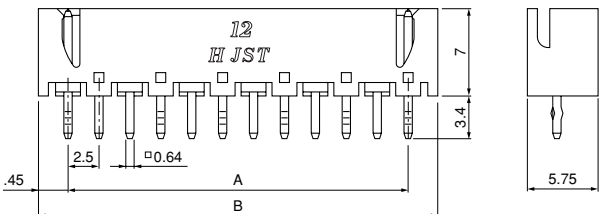
<2 circuits>



<3 to 8 circuits>



<9 circuits or more>



Circuits	Model No.	Dimensions (mm)		Q'ty/bag
		A	B	
2	B2B-XH-2	2.5	7.4	1,000
3	B3B-XH-2	5.0	9.9	1,000
4	B4B-XH-2	7.5	12.4	500
5	B5B-XH-2	10.0	14.9	500
6	B6B-XH-2	12.5	17.4	500
7	B7B-XH-2	15.0	19.9	500
8	B8B-XH-2	17.5	22.4	250
9	B9B-XH-2	20.0	24.9	250
10	B10B-XH-2	22.5	27.4	250
11	B11B-XH-2	25.0	29.9	250
12	B12B-XH-2	27.5	32.4	250
13	B13B-XH-2	30.0	34.9	250
14	B14B-XH-2	32.5	37.4	250
15	B15B-XH-2	35.0	39.9	250

Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance This product displays (LF)(SN) on a label.

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **B2B-XH-2-oo**

(blank)...natural (ivory)

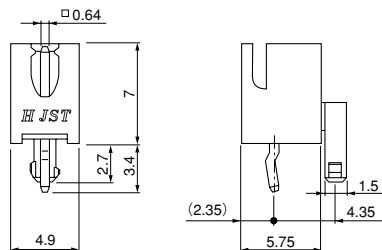
C...black R...red E...blue Y...yellow M...green

Through-hole type shrouded header

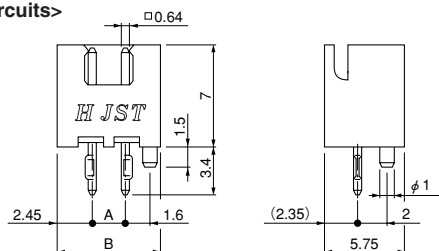
The shrouded headers are interchangeable with those of the NR and NRD insulation displacement connectors, and JQ board-to-board connectors.

Top entry type with a boss

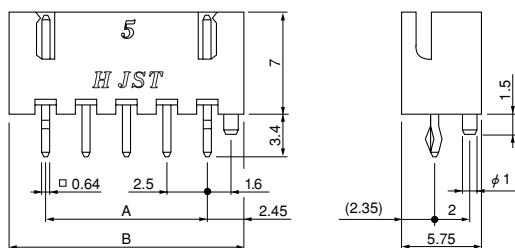
<1 circuit>



<2 circuits>



<3 circuits or more>



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
1	*B1B-XH-AM	—	—	1,000
2	B2B-XH-AM	2.5	7.4	1,000
3	B3B-XH-AM	5.0	9.9	1,000
4	B4B-XH-AM	7.5	12.4	500
5	B5B-XH-AM	10.0	14.9	500
6	B6B-XH-AM	12.5	17.4	500
7	B7B-XH-AM	15.0	19.9	500
8	B8B-XH-AM	17.5	22.4	250
9	B9B-XH-AM	20.0	24.9	250
10	B10B-XH-AM	22.5	27.4	250
12	B12B-XH-AM	27.5	32.4	250

Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, natural (white)

RoHS compliance This product displays (LF)(SN) on a label.
Note: *Marked product is not UL/CSA/TÜV approved.

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

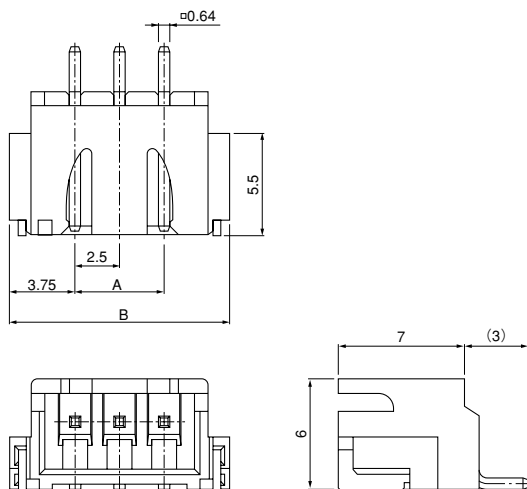
ex. **B1B-XH-AM-oo**

(blank)...natural (white)

BK...black R...red E...blue Y...yellow L...lemon yellow

M...green

SMT type shrouded header



Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
3	S3B-XH-SM4-TB	5.0	12.5	500
4	S4B-XH-SM4-TB	7.5	15.0	500
6	S6B-XH-SM4-TB	12.5	20.0	500

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 6T, UL94V-0, natural (ivory)
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.
Note: The products listed above are supplied on embossed-tape.

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

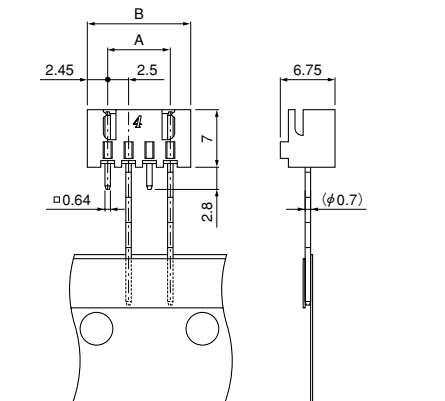
ex. **S3B-XH-SM4-oo-TB**

(blank)...natural (ivory)

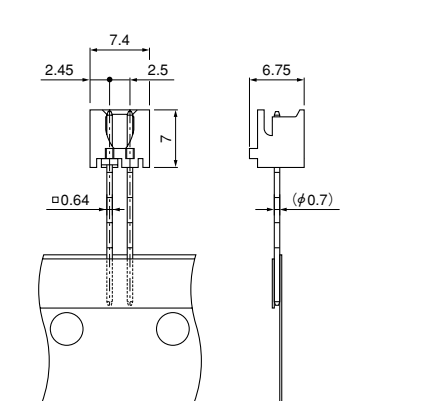
M...green R...red E...blue L...lemon yellow

Through-hole type shrouded header on radial-tape

TV4 type
<3 to 4 circuits>

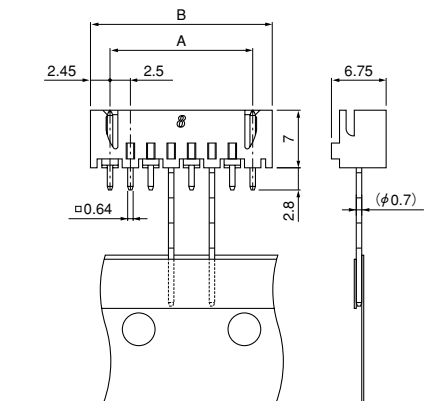


2-TV4 type
<2 circuits>



2-TV4 type

<3 to 8 circuits>



Circuits	Model No.		Dimensions (mm)		Q'ty / box
	TV4	2-TV4	A	B	
2	—	B2B-XH-2-TV4	—	—	1,000
3	B3B-XH-TV4	B3B-XH-2-TV4	5.0	9.9	1,000
4	B4B-XH-TV4	B4B-XH-2-TV4	7.5	12.4	500
5	—	B5B-XH-2-TV4	10.0	14.9	500
6	—	B6B-XH-2-TV4	12.5	17.4	500
7	—	B7B-XH-2-TV4	15.0	19.9	500
8	—	B8B-XH-2-TV4	17.5	22.4	500
Material and Finish					

Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: TV4 type/ PA 66, UL94V-0, natural (white)
2-TV4 type/ Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance This product displays (LF)(SN) on a label.

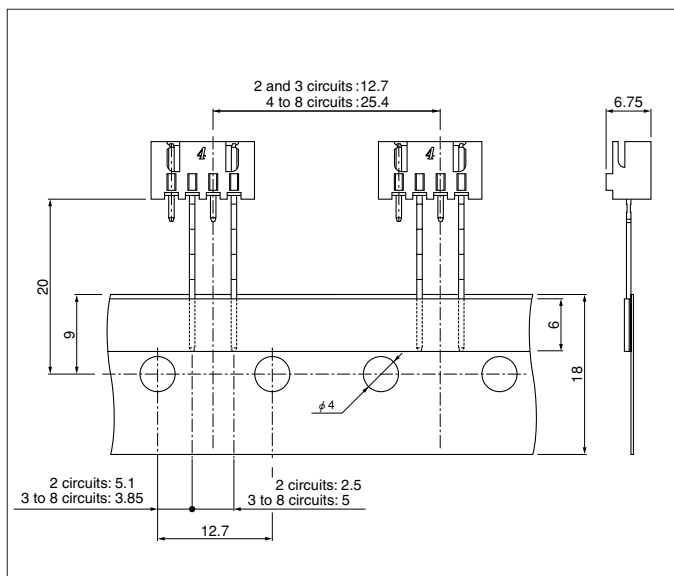
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **B2B-XH-2-TV4-oo**

(blank)...natural (TV4 type/white, 2-TV4 type/ivory)

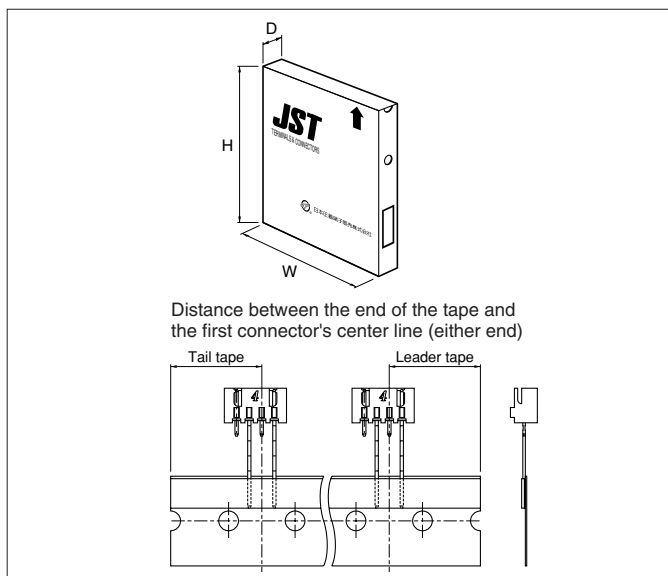
C...black (glass-filled) BK...black R...red E...blue Y...yellow
M...green

Taping specification



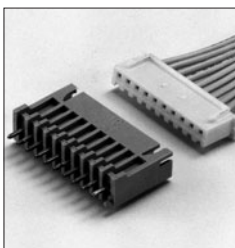
Note: Conforms to JIC C 0806 of "Tape packaging of components with unidirectional leads on continuous tapes".

Packaging specifications



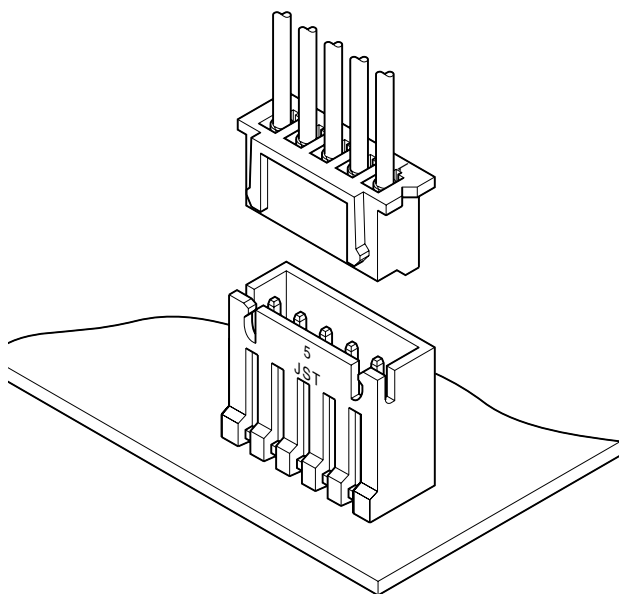
Package type		Flat pack (zigzag folded)
Distance between folds		24 indexing holes per fold (304.8mm)
Box size		316(W)×45(D)×330(H)mm
Distance between the end of the tape and the first connector's center line (either end)		19.05mm
Quantity	2, 3 circuits	1,000 pcs. / box
	4~8 circuits	500 pcs. / box

*Note: Products of different packaging specifications are also available.
Contact JST for details.*



XH CONNECTOR <High box type>

2.5mm pitch/Disconnectable Crimp style connectors



XH connector high box type, with 17.0mm mounting height and with 5.8mm thickness.

- Header for 2.5mm pitch XH connector for use specifically with resin coated ("potted") PC boards
- Interchangeability

Specifications

- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 10m Ω max.
After environmental testing/ 20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,000V AC/minute
- Applicable wire: AWG #30 to #22
- Applicable PC board thickness: 1.6mm

* Compliant with RoHS.

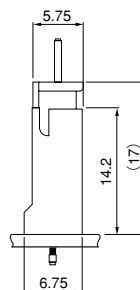
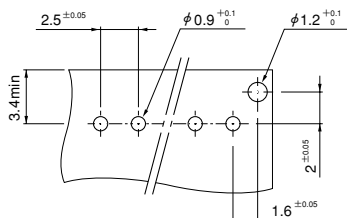
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

Standards

Recognized E60389

Certified LR20812

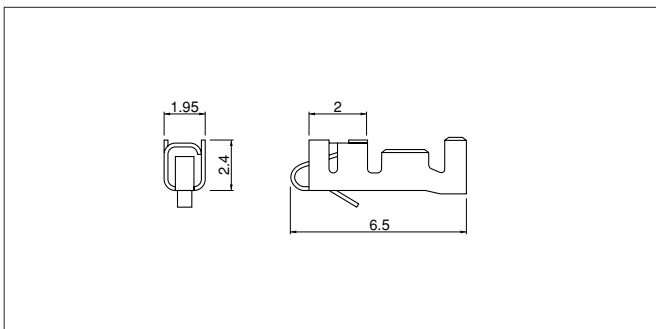


Note: 1. The above figure is the figure viewed from the connector mounting side.

2. Tolerances are non-cumulative: ±0.05mm for all centers.

3. Hole dimensions differ according to the kind of PC board and piercing method. If PC boards made of hard material are used, the hole dimensions should be larger. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXH-001T-P0.6	AP-K2N	MKS-L	MK/SXH-001-06	APLMK SXH001-06
		*MKS-SC	SC/SXH-001-06	APLSC SXH001-06

Note: *Strip-crimp applicator

Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm²	AWG#		
SXH-001T-P0.6	0.08~0.33	28~22	0.9~1.9	8,000
SXH-002T-P0.6	0.05~0.13	30~26	0.9~1.3	

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

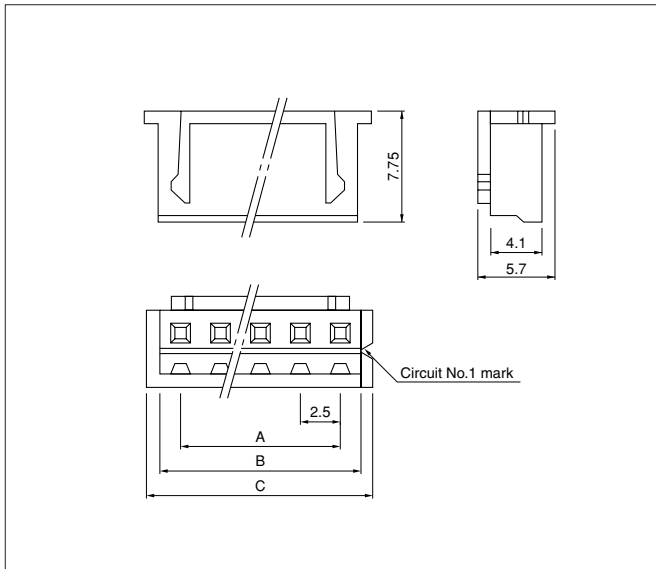
Note: 1. Contact JST if you require gold-plated contacts or contacts made of brass.

2. Contact JST also if you require shielded wires, thin wires or other special wires.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXH-002T-P0.6	AP-K2N	MKS-L	MK/SXH-002-06	APLMK SXH002-06
		*MKS-SC	SC/SXH-002-06	APLSC SXH002-06

XH CONNECTOR (High box type)

Housing



Circuits	Model No.	Dimensions (mm)			Q'ty / bag
		A	B	C	
2	XHP-2	2.5	5.7	7.3	1,000
3	XHP-3	5.0	8.2	9.8	1,000
4	XHP-4	7.5	10.7	12.3	1,000
5	XHP-5	10.0	13.2	14.8	1,000
6	XHP-6	12.5	15.7	17.3	1,000
7	XHP-7	15.0	18.2	19.8	1,000
8	XHP-8	17.5	20.7	22.3	1,000
9	XHP-9	20.0	23.2	24.8	1,000
10	XHP-10	22.5	25.7	27.3	1,000

Material

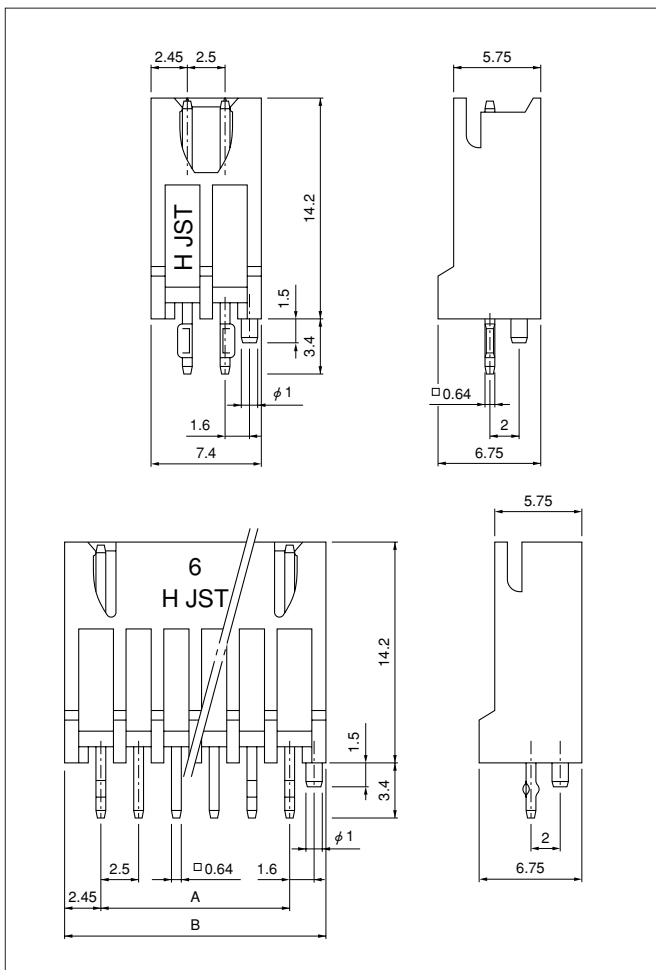
PA 6, UL94V-0, natural (white)

RoHS compliance

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **XHP-2-oo**
(blank)...natural (white)
BK...black R...red E...blue Y...yellow M...green

Shrouded header



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	BH2B-XH-2	2.5	7.4	700
3	BH3B-XH-2	5.0	9.9	500
4	BH4B-XH-2	7.5	12.4	300
5	BH5B-XH-2	10.0	14.9	300
6	BH6B-XH-2	12.5	17.4	250
7	BH7B-XH-2	15.0	19.9	200
8	BH8B-XH-2	17.5	22.4	150
9	BH9B-XH-2	20.0	24.9	150
10	BH10B-XH-2	22.5	27.4	150

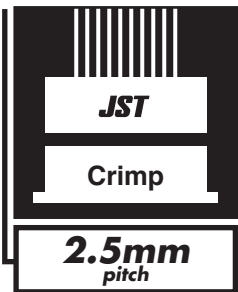
Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance

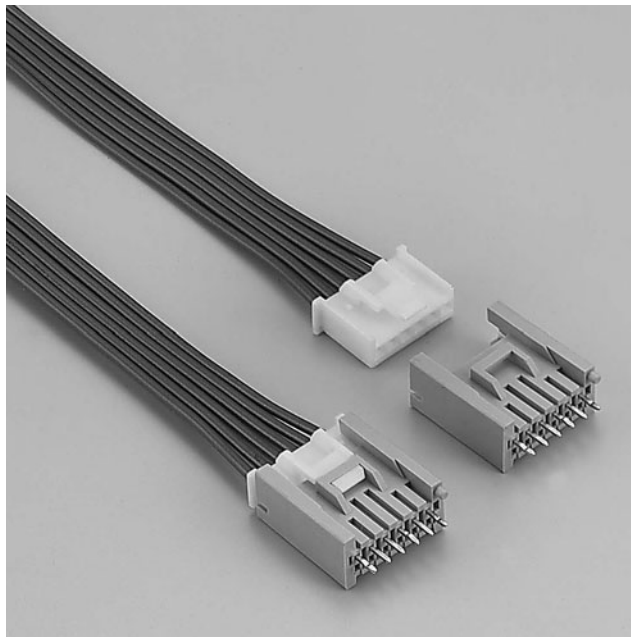
This product displays (LF)(SN) on a label.
<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **BH2B-XH-2-oo**
(blank)...natural (ivory)
R...red C...black E...blue Y...yellow M...green

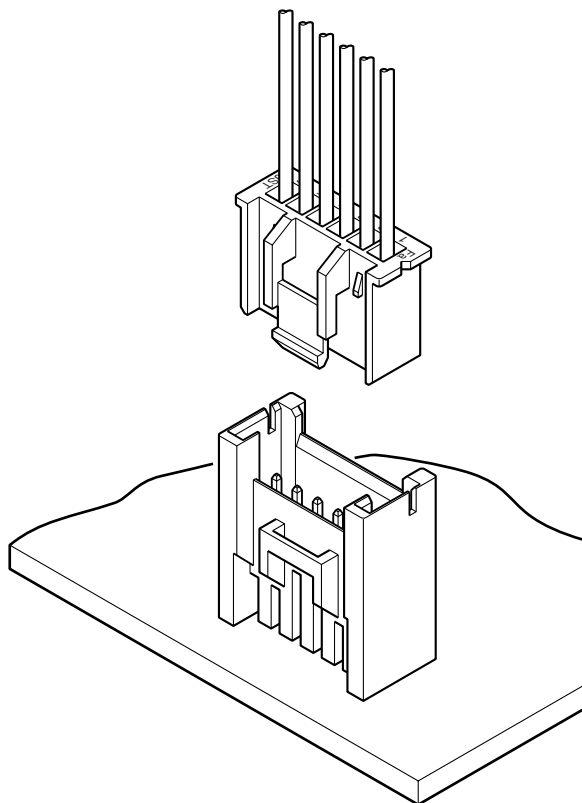


XM CONNECTOR (High box type)

Disconnectable Crimp style connectors (Board)



High-box type XM connector with 8.9mm depth and 20mm height after assembly.



Features

• Interchangeability

The housing is interchangeable with these of the XM receptacle housing.

• Inner-housing lock

This inner-housing lock secures the plug to the receptacle and prevents accidental disconnection. The lock is protected and is not affected by external forces that might result from the routing of wires.

• Secondary retainers

The secondary retainers enhance safety in case of partial insertion or accidental release of the contact. Even if a contact is inserted incompletely, the retainer guides the contact to the proper position and securely locks it in place.

• Header for 2.5mm pitch XM connector for use specifically with resin coated ("potted") PC boards

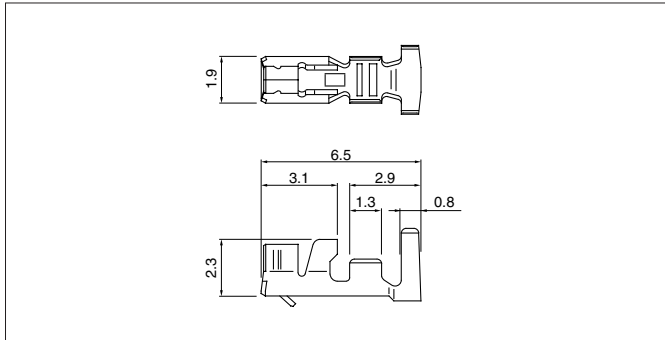
This header is tall and fully shrouded so as to prevent the resin used to coat the PC board from coming into contact with the mating pins.

Specifications

- Current rating: 3 A AC, DC (AWG #22, #20)
- Voltage rating: 250 V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 10 mΩ max.
After environmental tests/ 20 mΩ max.
- Insulation resistance: 500 MΩ min.
- Withstanding voltage: 1,000 VAC/minute
- Applicable wire: AWG #28 to #20
- Applicable PC board thickness: 1.6 mm
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Compliant with RoHS.

XM CONNECTOR<High box type>

Contact



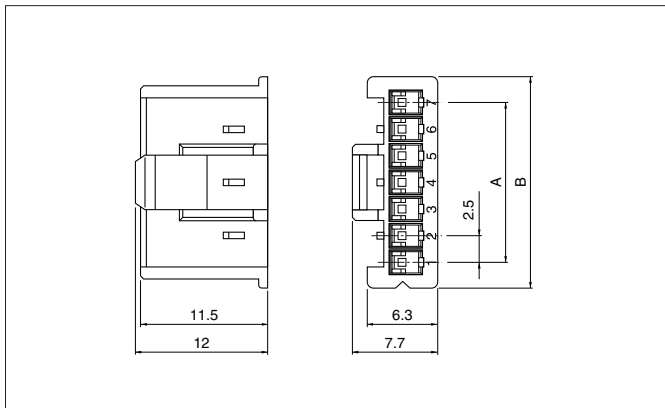
Model No.	Applicable wire			Q'ty / reel
	mm ²	AWG #	Insulation O.D. (mm)	
SXA- 01T-P0.6	0.22 to 0.50	24 to 20	1.5 to 1.9	8,000
SXA-001T-P0.6	0.08 to 0.33	28 to 22	0.8 to 1.9	8,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Housing



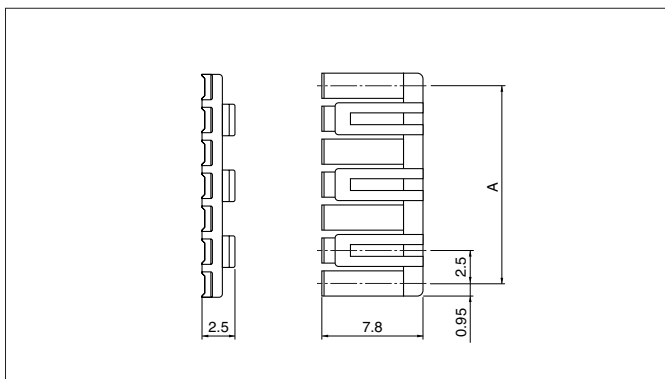
Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	XMP-02V	2.5	8.8	1,000
3	XMP-03V	5.0	9.8	1,000
4	XMP-04V	7.5	12.3	1,000
5	XMP-05V	10.0	14.8	500
6	XMP-06V	12.5	17.3	500
7	XMP-07V	15.0	19.8	500
8	XMP-08V	17.5	22.3	500
9	XMP-09V	20.0	24.8	500
10	XMP-10V	22.5	27.3	500

Material

PA 66, UL94V-0

RoHS compliance

Retainer



Circuits	Model No.	A	Q'ty / bag
2	XMS-02V	2.5	1,000
3	XMS-03V	5.0	1,000
4	XMS-04V	7.5	1,000
5	XMS-05V	10.0	1,000
6	XMS-06V	12.5	1,000
7	XMS-07V	15.0	1,000
8	XMS-08V	17.5	1,000
9	XMS-09V	20.0	1,000
10	XMS-10V	22.5	1,000

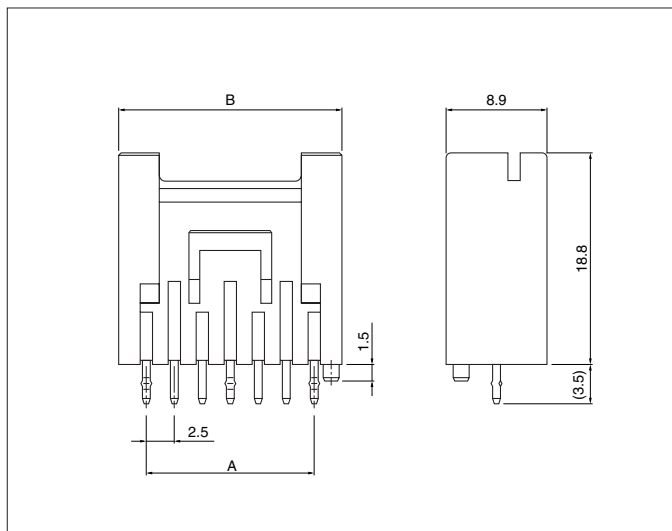
Material

Glass-filled PA 66, UL94V-0

RoHS compliance

XM CONNECTOR<High box type>

Shrouded header



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	BH02B-XMSK	2.5	8.9	770
3	BH03B-XMSK	5.0	9.9	700
4	BH04B-XMSK	7.5	12.4	525
5	BH05B-XMSK	10.0	14.9	455
6	BH06B-XMSK	12.5	17.4	385
7	BH07B-XMSK	15.0	19.9	315
8	BH08B-XMSK	17.5	22.4	280
9	BH09B-XMSK	20.0	24.9	245
10	BH10B-XMSK	22.5	27.4	245

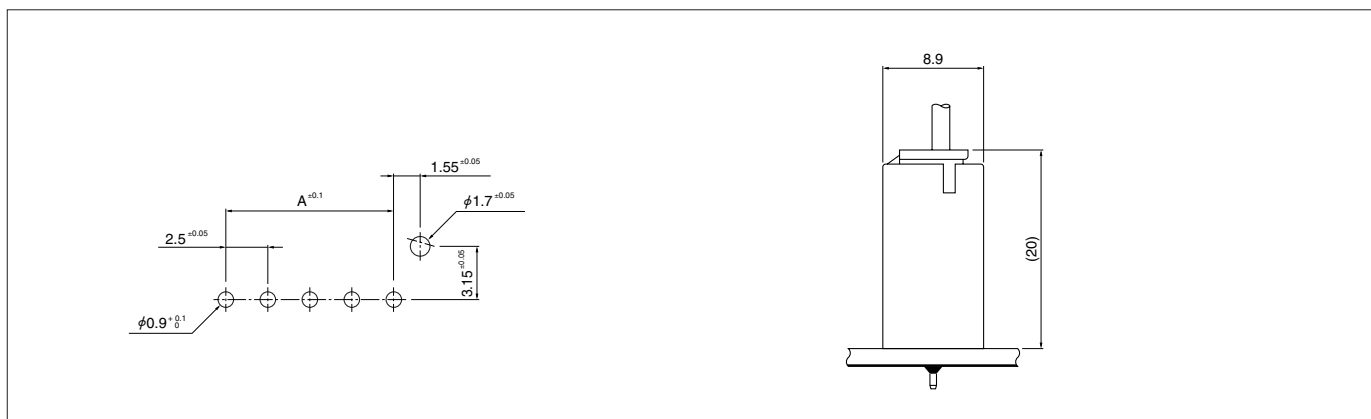
Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Wafer: Glass-filled PA 66, UL94V-0

RoHS compliance This product displays (LF)(SN) on a label.

PC board layout (viewed from soldering side) and Assembly layout



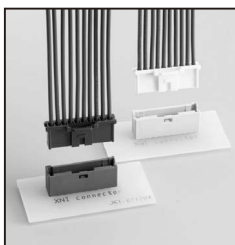
Note:

1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
2. Hole dimensions differ according to the type of PC board and piercing method.
The dimensions above should serve as a guideline. Contact JST for details.

Crimping machine, Applicator

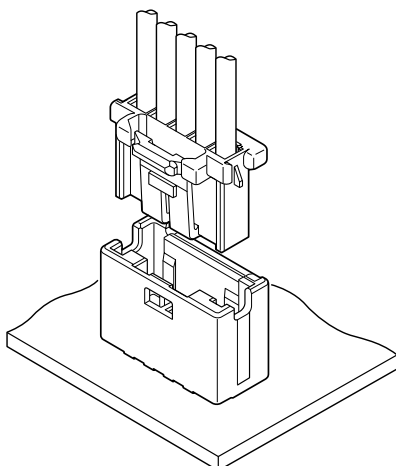
Contact	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies
SXA-001T-P0.6	AP-K2N	MKS-L	MK/SXA/M-001-06	APLMK SXA/M001-06
		*MKS-SC	SC/SXA/M-001-06	APLSC SXA/M001-06
SXA-01T-P0.6	AP-K2N	MKS-L	MK/SXA/M-01-06	APLMK SXA/M01-06
		*MKS-SC	SC/SXA/M-01-06	APLSC SXA/M01-06

Note: *Strip-crimp applicator



XNI CONNECTOR

2.5mm pitch/Disconnectable Crimp style connectors

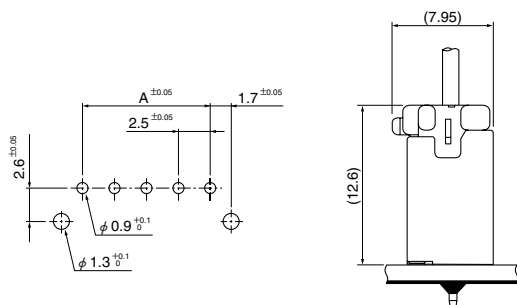


This connector is 2.5mm pitch wire-to-board connector that has a mechanism to prevent an incomplete mating by utilizing the inertial force when mating connector.

In all circuits of connector, controlled key for preventing mismatching of mating is added, and two type connectors can be used in the same model. (See table below.)

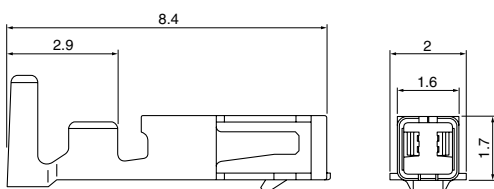
- Inertial lock structure
- Finger-friendly design
- Secure locking structure

PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method.
The dimensions above should serve as a guideline.
Contact JST for details.

Contact



Specifications

- Current rating: 3A AC, DC (AWG#22)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to $+85^{\circ}\text{C}$
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,000V AC/minute
- Applicable wire: AWG #30 to #22
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

Recognized E 60389

Certified LR20812

J50148340

List of combinations

Resin color (Header/Housing)	Natural	Red
Key pattern	Polarizing key pattern A	Polarizing key pattern B
Housing Model No.	XNIRP-()V-A-S	XNIRP-()V-B-R
Header Model No.	B()B-XNI S K-A-1	B()B-XNI R K-B-2

Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SXNI-001T-P0.6	0.13~0.33	26~22	1.0 ~1.7	7,000
SXNI-003T-P0.6	0.05~0.08	30~28	0.65~0.9	10,000

Material and Finish

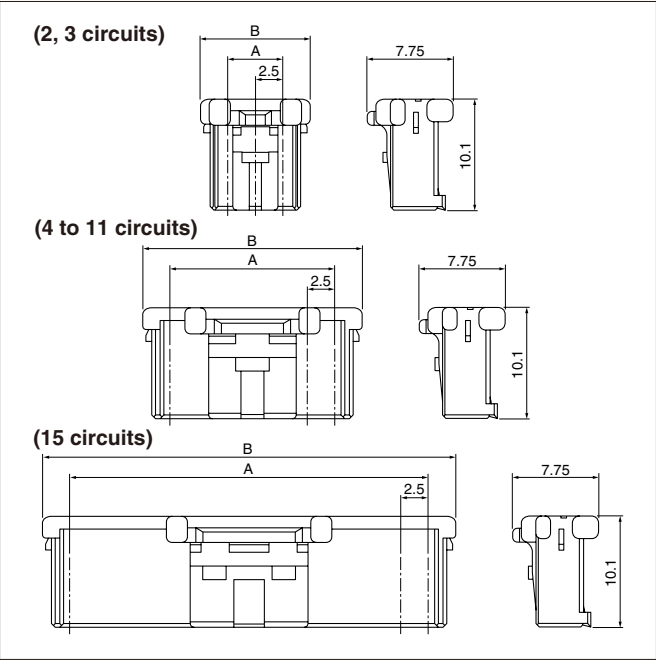
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXNI-001T-P0.6	AP-K2N	MKS-L	MK/SXNI-001-06	APLMK SXNI001-06
		—	—	—
SXNI-003T-P0.6	AP-K2N	MKS-L	MK/SXNI-003-06	APLMK SXNI003-06
		—	—	—

XNI CONNECTOR

Housing

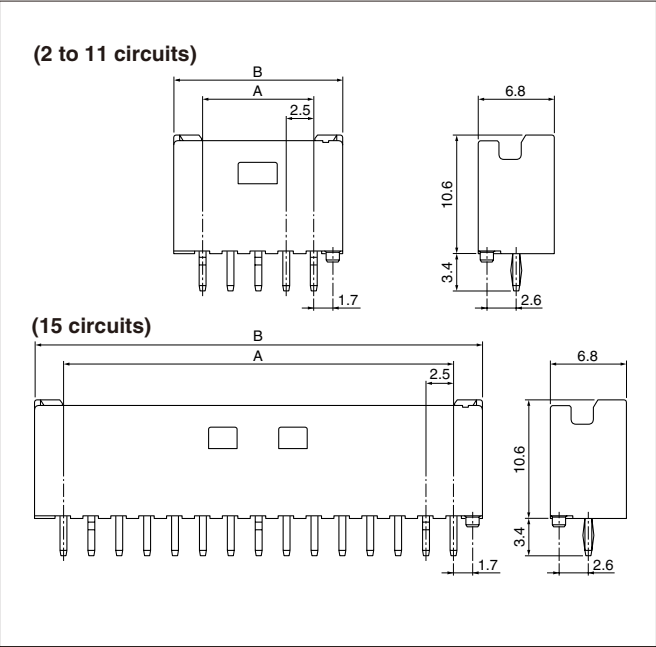


Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	XNIRP-02V-A-S	2.5	7.5	1,000
3	XNIRP-03V-A-S	5.0	10.0	1,000
4	XNIRP-04V-A-S	7.5	12.5	1,000
5	XNIRP-05V-A-S	10.0	15.0	1,000
6	XNIRP-06V-A-S	12.5	17.5	1,000
7	XNIRP-07V-A-S	15.0	20.0	1,000
8	XNIRP-08V-A-S	17.5	22.5	1,000
9	XNIRP-09V-A-S	20.0	25.0	1,000
10	XNIRP-10V-A-S	22.5	27.5	1,000
11	XNIRP-11V-A-S	25.0	30.0	500
15	XNIRP-15V-A-S	35.0	40.0	500

Material				
Glass-filled PBT, UL94V-0, natural (white)				

RoHS compliance
<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.
ex. **XNIRP-02V-A-S**
S...natural (white) R...red

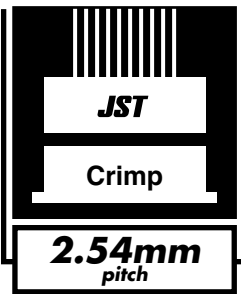
Shrouded header



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	B02B-XNISK-A-1	2.5	7.5	500
3	B03B-XNISK-A-1	5.0	10.0	500
4	B04B-XNISK-A-1	7.5	12.5	250
5	B05B-XNISK-A-1	10.0	15.0	250
6	B06B-XNISK-A-1	12.5	17.5	250
7	B07B-XNISK-A-1	15.0	20.0	200
8	B08B-XNISK-A-1	17.5	22.5	200
9	B09B-XNISK-A-1	20.0	25.0	200
10	B10B-XNISK-A-1	22.5	27.5	150
11	B11B-XNISK-A-1	25.0	30.0	150
15	B15B-XNISK-A-1	35.0	40.0	100

Material and Finish				
Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)				
Wafer: Glass-filled PA 66, UL94V-0, natural (ivory)				

RoHS compliance This product displays (LF)(SN) on a label.
<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.
ex. **B02B-XNISK-A-1**
S...natural (ivory) R...red

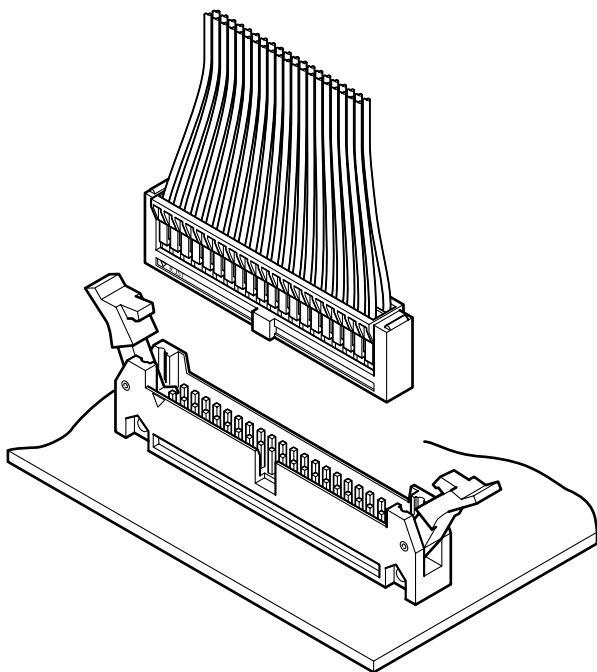


RA CONNECTOR

Disconnectable Crimp style connectors



Crimp style receptacles that are designed to mate with headers conforming to MIL-C-83503. The low insertion force contacts reduce surface finish wear and resist stress relaxation very well.



Features

• **Secure locking mechanism (RA, RX headers)**

The locking levers are engaged by inserting the receptacle into the header. This ensures a firm connection that's highly resistant to impact and vibration.

• **Housing lances**

The contact retention lances on the resilient housing allow visual confirmation of contact lock-in for easy and secure insertion.

• **Low insertion force contact**

The low insertion force contacts reduce surface finish wear and reduce the effects of stress relaxation.

• **Anti-misinsertion feature**

The guide devices of both housing and header prevent reverse connector insertion.

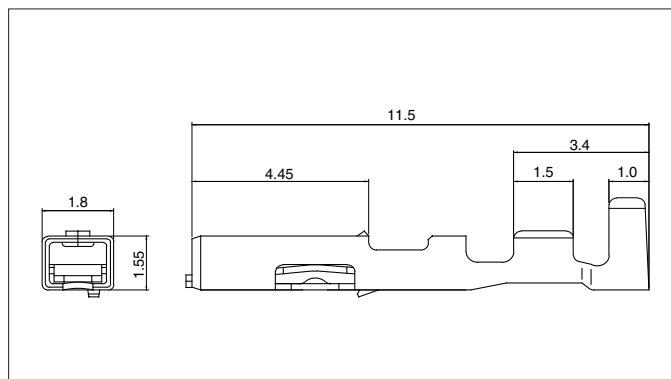
Specifications

- Current rating: 1.0A AC, DC (AWG #22)
- Voltage rating: 300V AC, DC
- Temperature range: -55°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/15m Ω max.
After environmental testing/30m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,000V AC/minute
- Applicable wire: AWG #26 to #22
- Applicable PC board thickness: 1.6mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

RA Recognized E60389

Contact



Model No.	Applicable wire			Q'ty / reel
	mm ²	AWG #	Insulation O.D. (mm)	
RA-SC1290	0.13 to 0.33	26 to 22	1.3 to 1.7	8,000

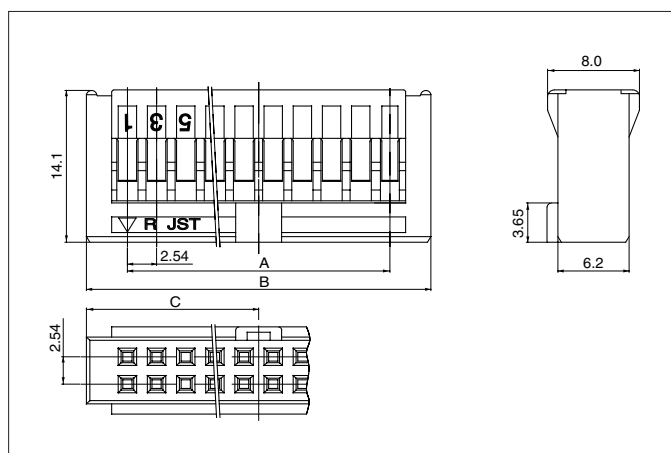
Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Note: Contact JST for gold-plated contacts.

Housing



Circuits	Model No.	Dimensions (mm)			Q'ty / box
		A	B	C	
10	RA-1011	10.16	17.50	8.75	500
16	RA-1611	17.78	25.12	12.56	500
20	RA-2011	22.86	30.20	15.10	500
26	RA-2611	30.48	37.82	18.91	250
30	RA-3011	35.56	42.90	21.45	200
34	RA-3411	40.64	47.98	23.99	250
40	RA-4011	48.26	55.60	27.80	200
50	RA-5011	60.96	68.30	34.15	200
60	RA-6011	73.66	81.00	40.50	250

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Header

The following headers are applicable to the above Housing.

RA header			RX header		RK header	
Circuits	Top entry type	Side entry type	Top entry type	Side entry type	Top entry type	Side entry type
10	RA-H101TD-1190	RA-H101SD-1190	—	—	—	—
16	RA-H161TD-1190	RA-H161SD-1190	—	—	—	—
20	RA-H201TD-1190	RA-H201SD-1190	RX-H201TD-1190	RX-H201SD-1190	—	—
26	RA-H261TD-1190	RA-H261SD-1190	—	—	—	—
30	RA-H301TD-1190	—	—	—	—	—
34	RA-H341TD-1190	RA-H341SD-1190	RX-H341TD-1190	RX-H341SD-1190	RK-H341TD-0190	RK-H341SD-0190
40	RA-H401TD-1190	RA-H401SD-1190	RX-H401TD-1190	RX-H401SD-1190	RK-H401TD-0190	RK-H401SD-0190
50	RA-H501TD-1190	RA-H501SD-1190	RX-H501TD-1190	RX-H501SD-1190	—	—
60	RA-H601TD-1190	RA-H601SD-1190	RX-H601TD-1190	RX-H601SD-1190	—	—

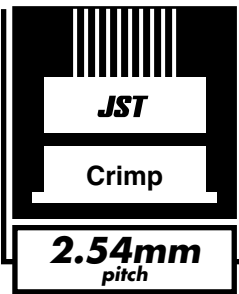
RoHS compliance This product displays (LF)(SN) on a label.

Note: Contact JST for gold-plated headers.

Crimping machine, Applicator

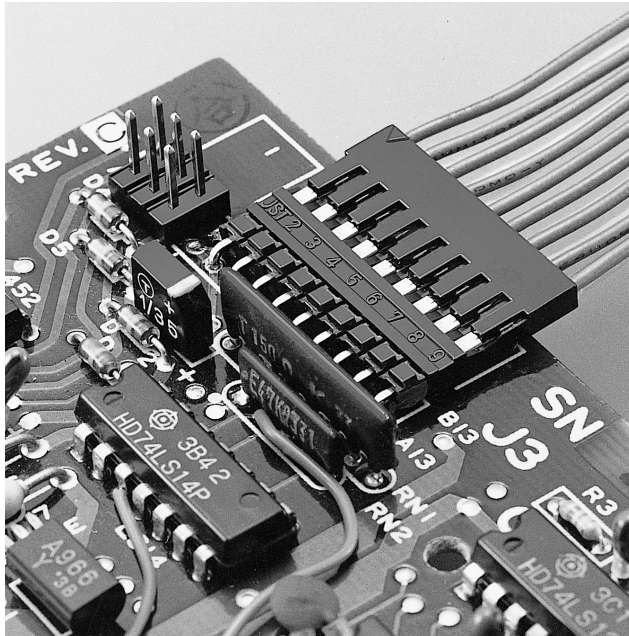
Contact	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies
RA-SC1290	AP-K2N	MKS-L	MK/RA-SC12	APLMK RA-SC12
		*MKS-SC	*SC/RA-SC12	APLSC RA-SC12

Note: *Strip-crimp applicator

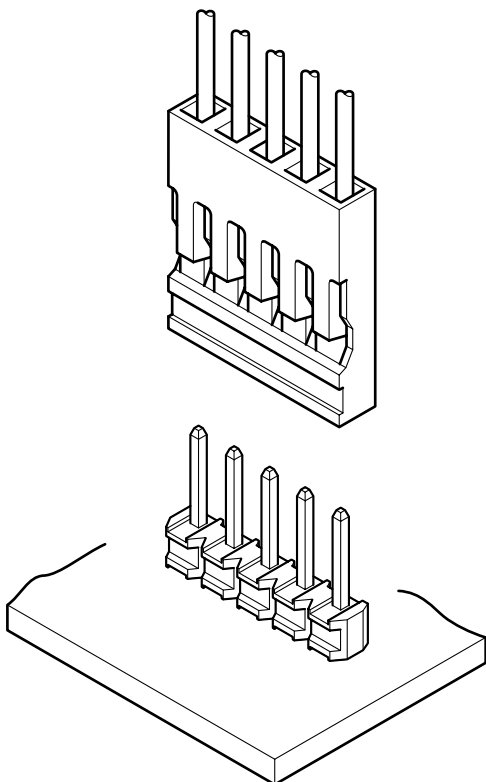


RE CONNECTOR

Disconnectable Crimp style connectors



The RE connector was developed as a highly reliable, low-cost, crimp style connector for connecting wires to printed circuit boards. Well suited for completing the internal connections of office automation equipment, such as personal computers, office computers, and their peripheral devices.



Features

• **Reliable, yet low in cost**

Our unique, double-leaf spring contact withstands the stresses caused by repeated mating and unmating and ensures a stable high-pressure connection. The contacts and headers are selectively gold-plated to reduce costs. Depending on the application, fully tin-plated contacts and headers are available to further reduce costs.

• **Space-saving, high-density design**

Measuring only 16.54mm in height and 2.54mm thick when mounted on a printed circuit board, the RE connector and header require less mounting space and facilitate high-density circuit design.

• **Easy contact insertion**

A slight force is all that is needed to insert the contacts into the housing, because the housing has lances. The position of the contacts in the housing can be visually checked. This facilitates insertion of the contacts in the housing.

• **It can be cut to any length to provide a header with any number of circuits**

Notches are provided on the insulator that allow it to be cut to any length without using special tools.

Specifications

- Current rating: 2A AC, DC (5 circuits/AWG #24)
- Voltage rating: 250V AC, DC
- Temperature range: (including temperature rise in applying electrical current)
 - 55°C to +105 °C (gold plated)
 - 55°C to +85°C (tin-plated)
- Contact resistance: Initial value/15m Ω max.
After environmental testing/30m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #30 to #24
- Applicable PC board thickness: 1.2 to 1.6mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

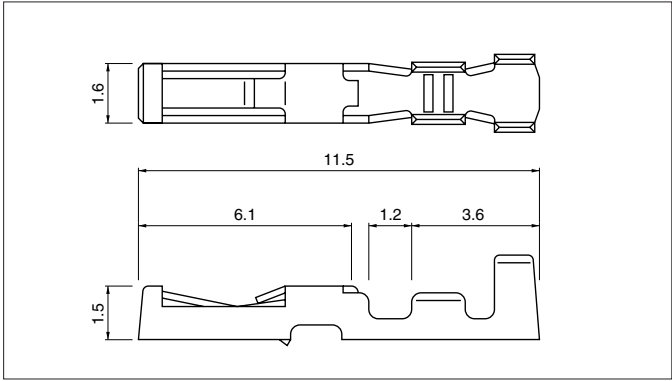
Standards

Recognized E60389

Certified LR20812

RE CONNECTOR

Contact

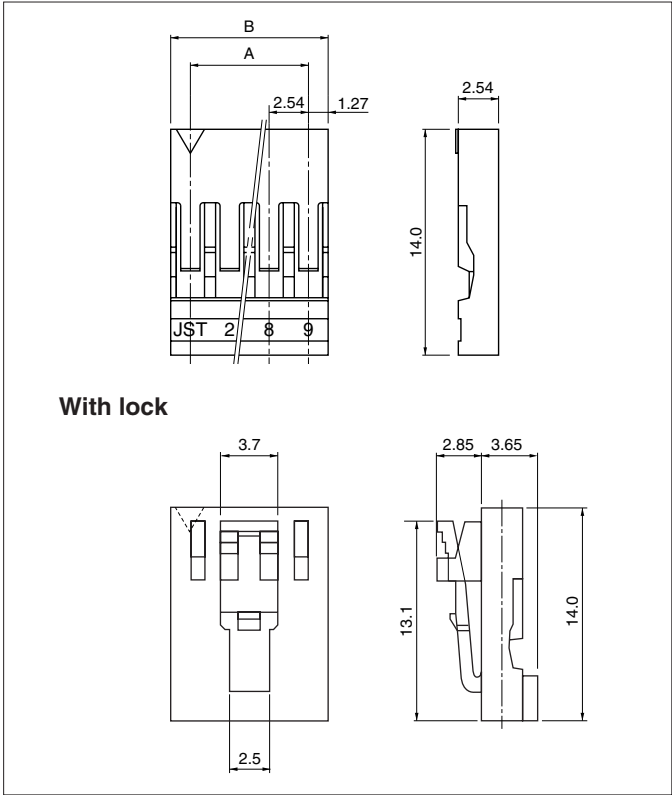


Model No.	Applicable wire			Finish	Q'ty / reel
	mm²	AWG #	Insulation O.D. (mm)		
RF-SC2210	0.05 to 0.22	30 to 24	0.9 to 1.5	Nickel-undercoated, Mating part; gold-plated Crimping part; tin-plated (reflow treatment)	10,000
RF-SC2290				Tin-plated (reflow treatment)	

Material					
Phosphor bronze					

RoHS compliance RF-SC2210 displays (LF)(SN) on a label.

Housing



Cir- cuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	RE-02	2.54	5.08	1,000
4	RE-04	7.62	10.16	1,000
5	RE-05	10.16	12.70	1,000
8	RE-08	17.78	20.32	500
9	RE-09	20.32	22.86	500

Material				
PBT, UL94V-0, black				

RoHS compliance

With lock

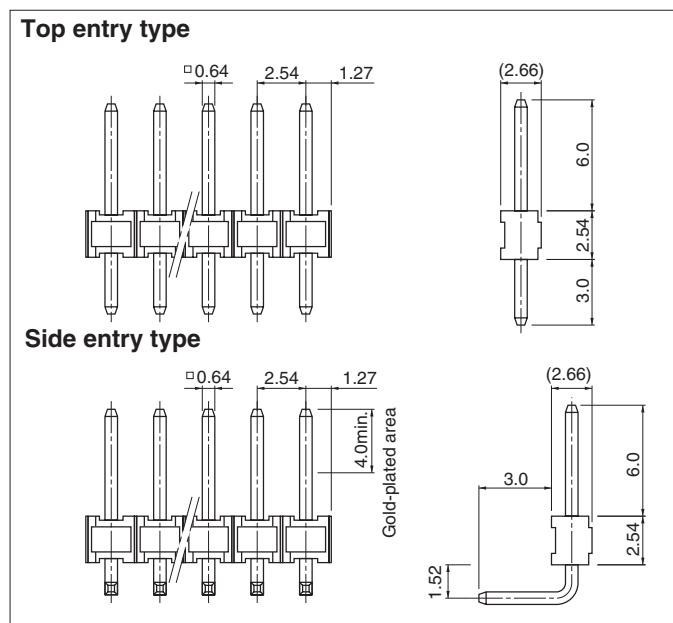
Circuits	Model No.	Q'ty / box
4	RE-L04	1,000

Material		
PA 66, UL94V-0		

RoHS compliance
Note: RE-L04 is not UL/CSA approved.

RE CONNECTOR

Header



Top entry type

Model No.	Material		Finish
	Wafer	Post	
RE-H(*) 2TD-1130	PBT, UL94V-0, black	Brass	Nickel-undercoated, gold-plated
RE-H(*) 2TD-1190			Copper-undercoated, tin-plated (reflow treatment)

Side entry type

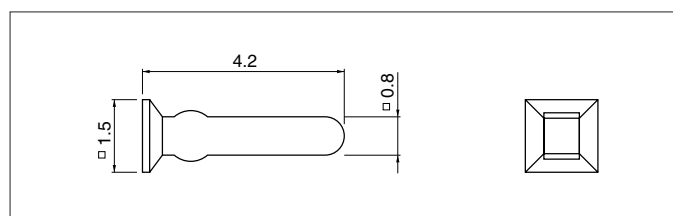
Model No.	Material		Finish
	Wafer	Post	
RE-H(*) 2SD-1110	PBT, UL94V-0, black	Brass	Nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment)
RE-H(*) 2SD-1190			Copper-undercoated, tin-plated (reflow treatment)

RoHS compliance Tin-plated product displays (LF)(SN) on a label.

Note:

1. A two-digit number (02 to 09) representing the number of circuits should be inserted in (*). Determine the number depending on the number of circuits of the housing or header.
2. Contact JST for special products.

Polarizing key

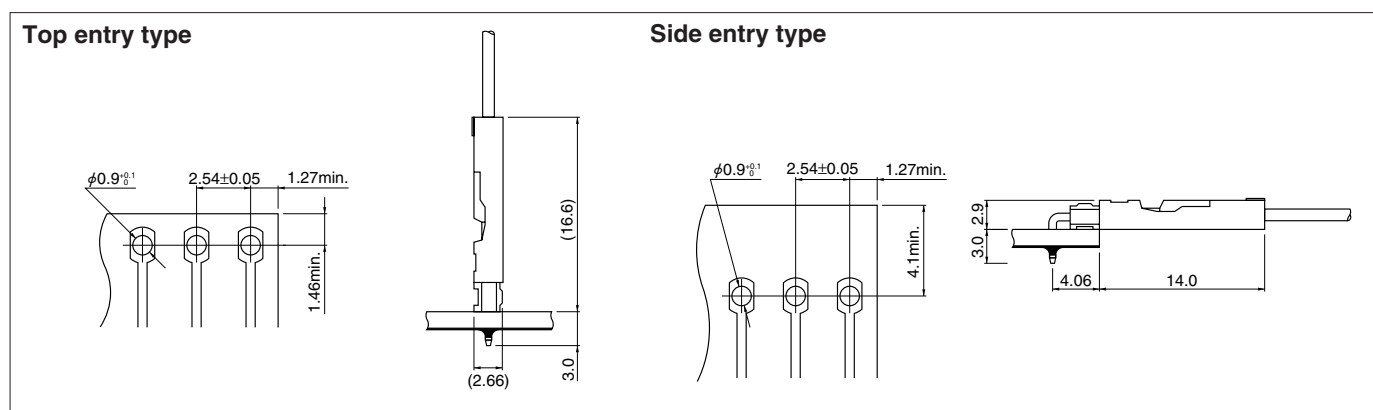


Model No.	Q'ty / bag
PK-RF-1	10,000
Material	
PBT, UL94V-0, natural (white)	

RoHS compliance

Polarizing key: The polarizing key in the housing prevents misinsertion of the connector to the header.

PC board layout (viewed from soldering side) and Assembly layout

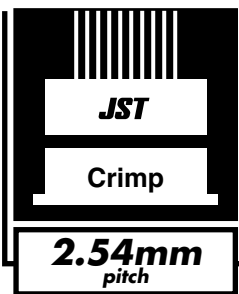


Note:

1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

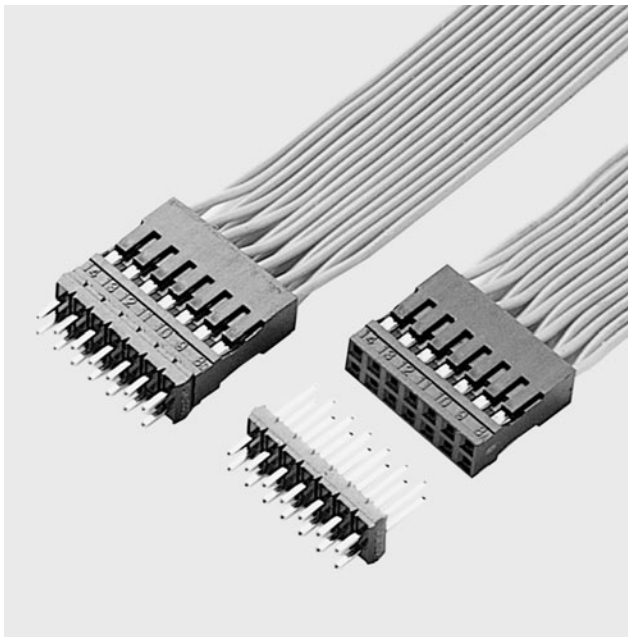
Crimping machine, Applicator

Contact	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies
RF-SC2210 RF-SC2290	AP-K2N	MKS-L	MK/RF-SC22	APLMK RF-SC22
		—	—	—

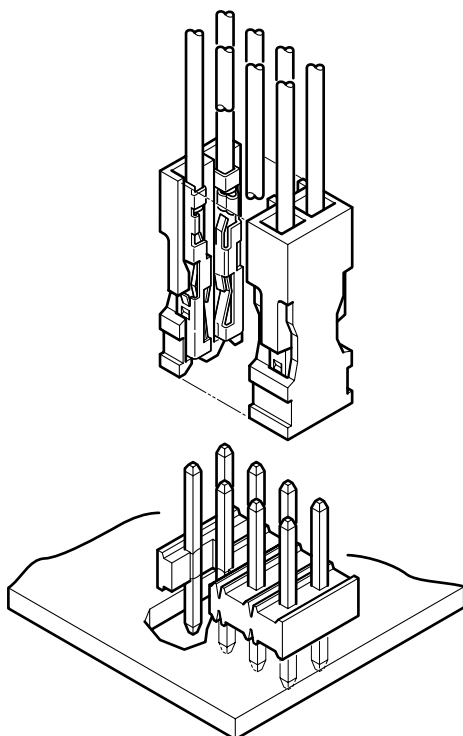


RF CONNECTOR

Disconnectable Crimp style connectors



The RF connector was developed as a highly reliable, low-cost, crimp style connector for connecting wires to printed circuit boards. Well suited for internal connections in office automation equipment, such as personal computers, office computers and their peripheral devices.



Features

• **Highly reliable, yet low in cost**

Our original double-leaf spring construction withstands the stresses caused by repeated insertions and withdrawals and ensures reliable contact performance. Depending on the application, the socket contacts and header posts can be selectively gold-plated or fully tin-plated to minimize costs.

• **Space-saving, high-density design**

The 2.54mm pitch contacts are arranged in two rows. The mated connectors can be placed side by side or end to end without a loss in pitch. This facilitates space-saving, high-density circuit designs.

• **Easy connection**

A slight force is all that is required for contact insertion because the housing has resilient lances. Furthermore, the positions of the contacts in the housing can be visually checked. This facilitates insertion of the contacts in the housing.

• **It can be cut to any length to provide a header with any number of circuits**

Notches are provided on the insulator that allow it to be cut to any length without using special tools.

Specifications

- Current rating: 2A AC, DC (AWG #24)
- Voltage rating: 250V AC, DC
- Temperature range: (including temperature rise in applying electrical current)
 - 55°C to +105°C (gold-plated)
 - 55°C to +85°C (tin-plated)
- Contact resistance: Initial value/15m Ω max.
After environmental testing/30m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #30 to #24
- Applicable PC board thickness: 1.2 to 1.6mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

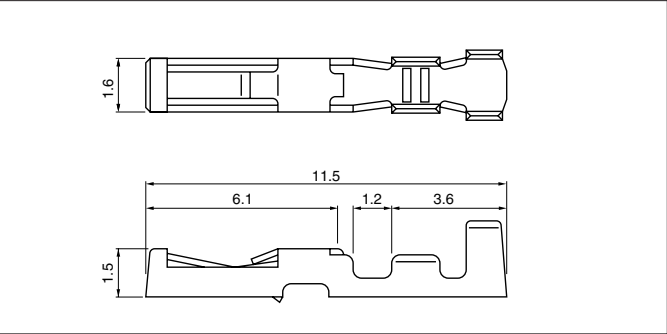
Standards

Recognized E60389

Certified LR20812

RF CONNECTOR

Contact

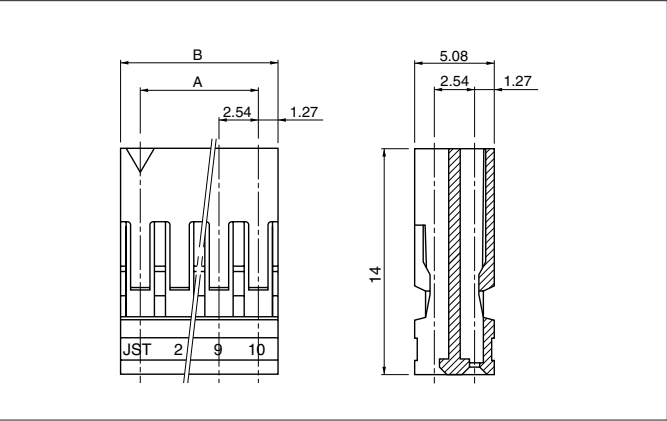


Model No.	Applicable wire			Finish	Q'ty / reel
	mm ²	AWG #	Insulation O.D. (mm)		
RF-SC2210	0.05 to 0.22	30 to 24	0.9 to 1.5	Nickel-undercoated, Mating part: gold-plated Crimping part: tin-plated (reflow treatment)	10,000
RF-SC2290				Tin-plated (reflow treatment)	

Material
Phosphor bronze

RoHS compliance RF-SC2210 displays (LF)(SN) on a label.

Housing

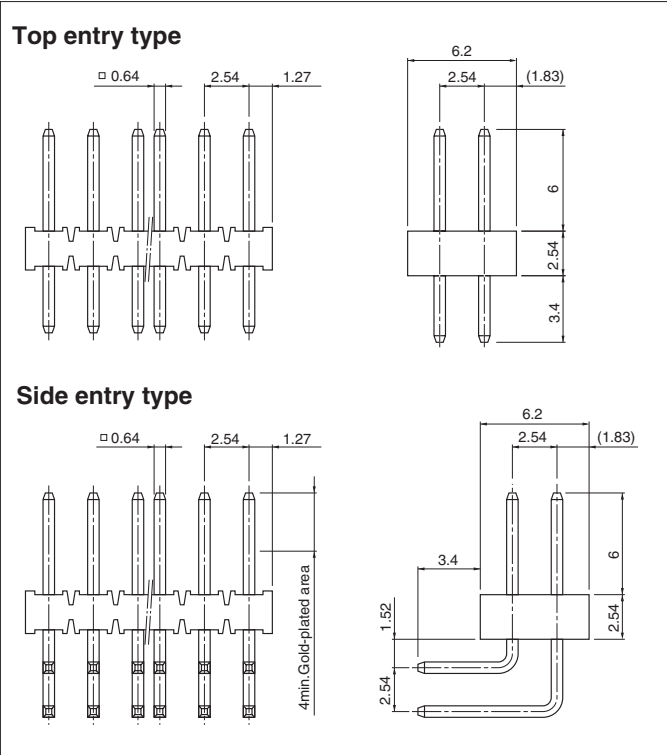


Cir- cuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
6	RF-06	5.08	7.62	500
8	RF-08	7.62	10.16	500
10	RF-10	10.16	12.70	500
12	RF-12	12.70	15.24	500
14	RF-14	15.24	17.78	300
16	RF-16	17.78	20.32	300
20	RF-20	22.86	25.40	200
28	RF-28	33.02	35.56	200

Material
PBT, UL94V-0, black

RoHS compliance

Header

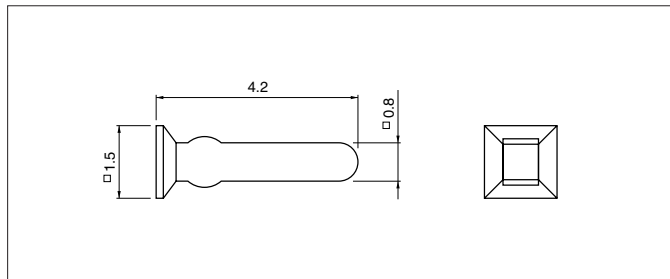


Model No.	Material		Finish
	Wafer	Post	
RF-H(*) 2TD-1130	PBT, UL94V-0, black (natural)	Brass	Nickel-undercoated, gold-plated
RF-H(*) 2TD-1190			Copper-undercoated, tin-plated (reflow treatment)

Model No.	Material		Finish
	Wafer	Post	
RF-H(*) 2SD-1110	PBT, UL94V-0, black (natural)	Brass	Nickel-undercoated, Mating part: gold-plated Solder tail: tin-plated (reflow treatment)
RF-H(*) 2SD-1190			Copper-undercoated, tin-plated (reflow treatment)

RoHS compliance Tin-plated product displays (LF)(SN) on a label.
Note:
 1. A two-digit number (06 to 16 even numbers only, 20 and 28) representing the number of circuits should be inserted in (*).
 Determine the number depending on the number of circuits of the housing or header.
 2. Contact JST for special products.

Polarizing key

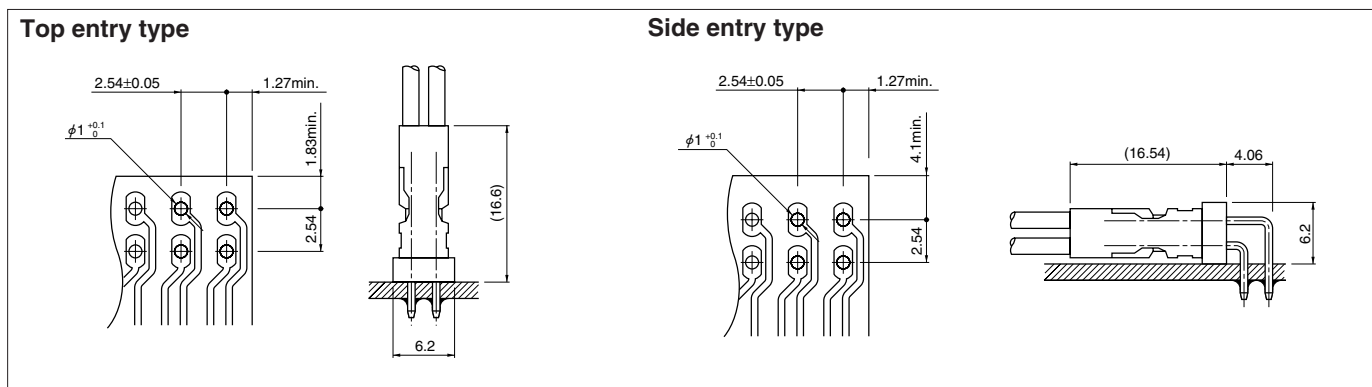


Model No.	Q'ty / bag
PK-RF-1	10,000
Material	
PBT, UL94V-0, natural (white)	

RoHS compliance

Polarizing key: The polarizing key in the housing prevents misinsertion of the connector to the header.

PC board layout (viewed from soldering side) and Assembly layout



Note:

1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

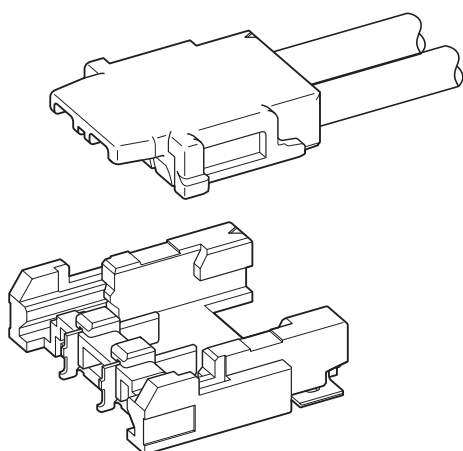
Crimping machine, Applicator

Contact	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies
RF-SC2210	AP-K2N	MKS-L	MK/RF-SC22	APLMK RF-SC22
RF-SC2290		—	—	—



LEN CONNECTOR

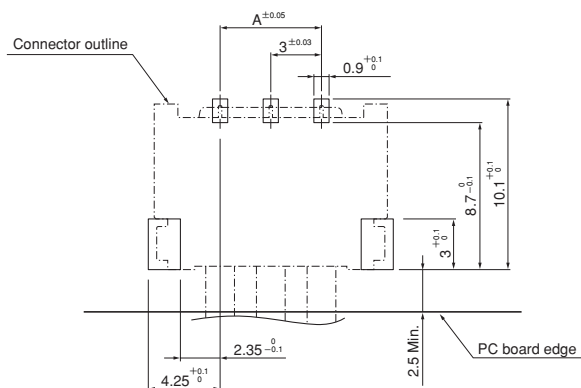
3.0mm pitch/For LED Lamp/Disconnectable Crimp style connectors



Considering about the luminescence property of LED package, this LEN connector is designed as low profile type connector for LED lighting.

In consideration of connector mating operation to the LED mounting PCB that is integrated in the equipment, side-feed mechanism that provides to enable mating the connector from above is adopted, and secure lock that considered handling and mechanism for preventing wrong insertion are provided.

- **Low profile design**
Mounting height at connector mounting side : 3mm
- **Secure locking mechanism**
- **Mechanism for preventing wrong insertion**
- **Halogen-free and RoHS compliant**



Specifications

- Current rating: 3 A AC, DC (AWG #22)
- Voltage rating: 300 V AC, DC
- Temperature range: -55°C to +105°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 10 mΩ max.
After environmental testing/ 20 mΩ max.
- Insulation resistance: 1,000 MΩ min.
- Withstanding voltage: 1,700 VAC/ minute
- Applicable wire: Conductor size/ AWG #26 to #22
Insulation O.D./ 0.95 to 1.7 mm

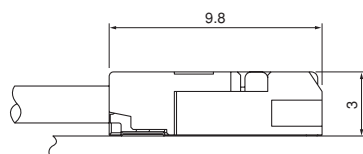
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

* Compliant with RoHS.

Table of product combinations

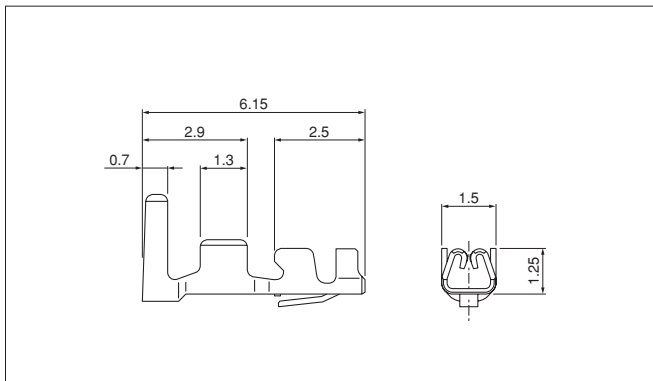
Key pattern		A	B
	Housing	Natural	Blue
	Model No.	LENR-()V-S-A(HF)	LENR-()V-E-B(HF)
	Shrouded header	Natural	Blue
	Model No.	BM()B-LENS-A-TB(HF)	BM()B-LENS-B-TB(HF)



Note: 1. The figure on the left side is the figure viewed from the connector mounting side.
2. Tolerances are non-cumulative: ±0.05mm for all centers.
The dimensions above should serve as a guideline. Contact JST for details.

LEN CONNECTOR

Contact



Model No.	Applicable wire			Q'ty / reel
	mm ²	AWG#	Insulation O.D. (mm)	
SLEN-001T-P0.2	0.13~0.33	26~22	0.95~1.7	9,000

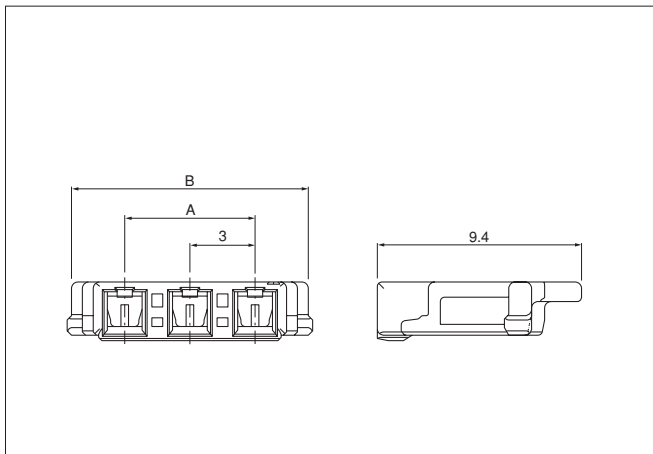
Material and Finish

Copper alloy, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SLEN-001T-P0.2	AP-K2N	MKS-L	MK/SLEN-001-02	APLMK SLEN001-02

Housing



Circuits	Key pattern	Color	Model No.	Dimensions (mm)		Q'ty / box
				A	B	
2	A	Natural	LENR-02V-S-A(HF)	—	7.9	2,000
	B	Blue	LENR-02V-E-B(HF)	—	7.9	
3	A	Natural	LENR-03V-S-A(HF)	6.0	10.9	2,000
	B	Blue	LENR-03V-E-B(HF)	6.0	10.9	
4	A	Natural	LENR-04V-S-A(HF)	9.0	13.9	1,800
	B	Blue	LENR-04V-E-B(HF)	9.0	13.9	

Material

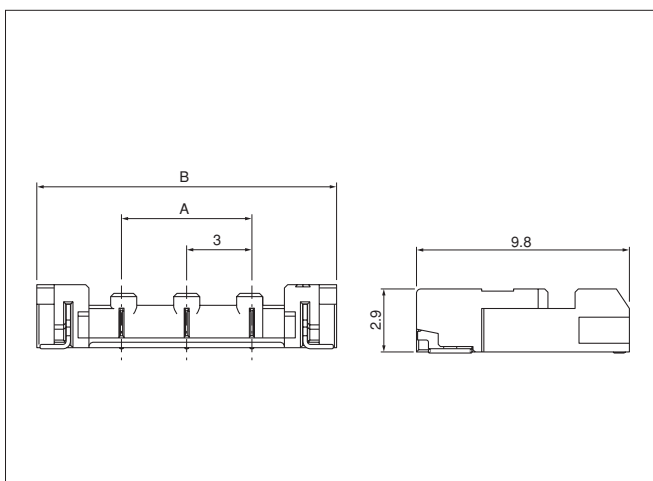
Glass-filled PA 66, UL94V-0

RoHS compliance

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **LENR-02V-S-A(HF)**
S...natural E...blue

Shrouded header



Circuits	Key pattern	Color	Model No.	Dimensions (mm)		Q'ty / reel
				A	B	
2	A	Natural	BM02B-LENSS-A-TB(HF)	—	10.8	1,500
	B	Blue	BM02B-LENES-B-TB(HF)	—	10.8	
3	A	Natural	BM03B-LENSS-A-TB(HF)	6.0	13.9	1,500
	B	Blue	BM03B-LENES-B-TB(HF)	6.0	13.9	
4	A	Natural	BM04B-LENSS-A-TB(HF)	9.0	16.8	1,500
	B	Blue	BM04B-LENES-B-TB(HF)	9.0	16.8	

Material and Finish

Contact: Copper, copper-undercoated, tin-plated

Housing: Glass-filled PA 66, UL94V-0

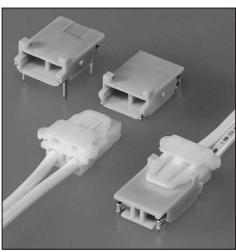
Reinforcement: Copper alloy, copper-undercoated, tin-plated

RoHS compliance

Note: The products listed above are supplied on embossed-tape.

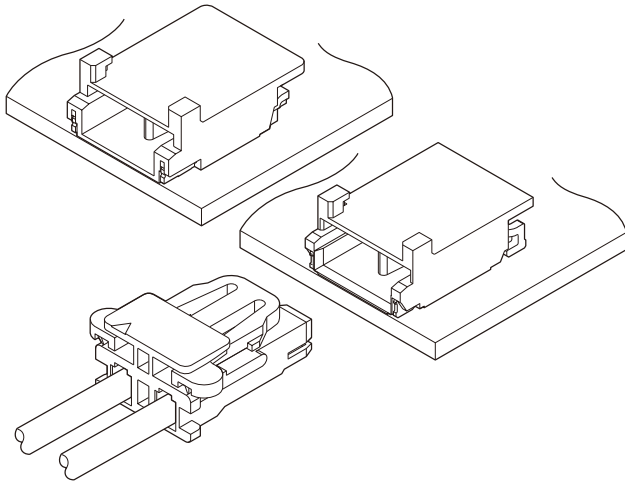
<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **BM02B-LENSS-A-TB(HF)**
S...natural E...blue



BD CONNECTOR (3.5mm)

3.5mm pitch/Disconnectable Crimp style connectors



Board-to-wire connector with high withstanding voltage, used for power supply of LCD (Liquid Crystal Display) back light.

- Secure locking mechanism
- High withstand voltage design
- Low profile
- Compatibility

Specifications

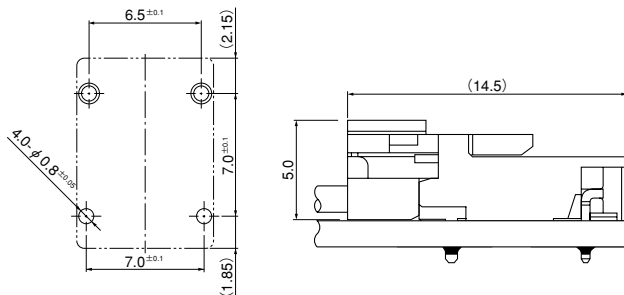
- Current rating: 1.0A AC, DC (AWG #24)
- Voltage rating: 1,400V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 3,000V AC/minute
- Applicable wire: AWG #28 to #24
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

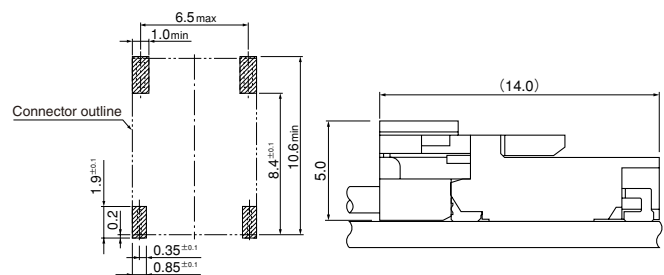
Recognized E60389

PC board layout (viewed from component side) and Assembly layout

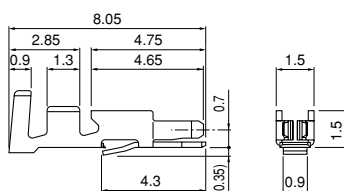
Through-hole type



SMT type



Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SBHS-002T-P0.5A	0.08~0.22	28~24	0.9~1.7	10,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

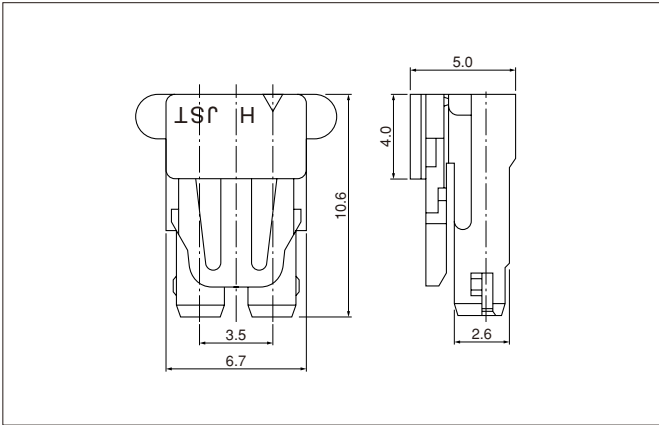
RoHS compliance

Note: Contact JST for SBHS-002T-P0.5.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SBHS-002T-P0.5A	AP-K2N	MKS-L	MK/SBHS-002-05	APLMK SBHS002-05
		—	—	—

BD CONNECTOR (3.5mm)

Housing

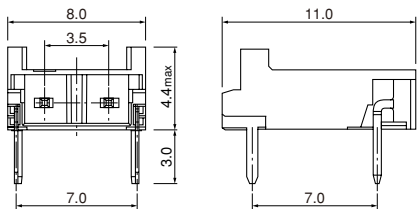


Circuits	Model No.	Q'ty / bag
2	BDMR-02VS-2	1,000
Material		
PA 66, UL94V-0, natural (white)		

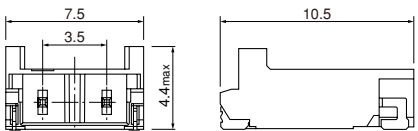
RoHS compliance

Header

Through-hole type



SMT type



Through-hole type

Circuits	Model No.	Q'ty / box
2	S02-BDS-3-B	1,000
Material and Finish		
Press pin: Brass, Copper-undercoated, tin-plated (reflow treatment) Wafer: Heat resisting resin, UL94V-0, natural (ivory) Solder tab: Brass, Copper-undercoated, tin-plated (reflow treatment)		

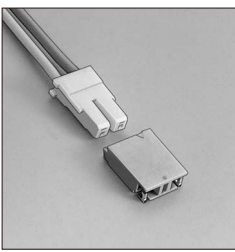
RoHS compliance This product displays (LF)(SN) on a label.

SMT type

Circuits	Model No.	Q'ty / reel
2	SM02-BDS-3-TB	1,000
Material and Finish		
Post: Brass, Copper-undercoated, tin-plated (reflow treatment) Wafer: Heat resisting resin, UL94V-0, natural (ivory) Solder tab: Brass, Copper-undercoated, tin-plated (reflow treatment)		

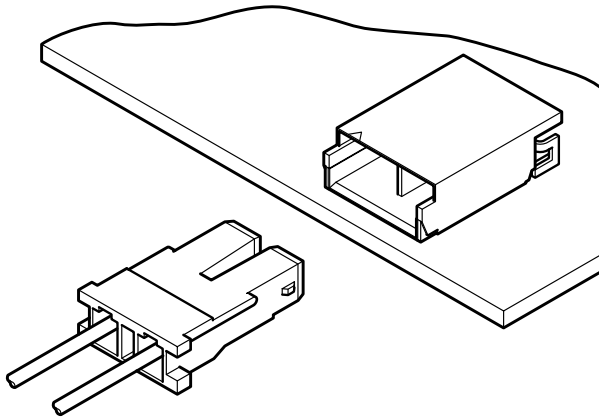
RoHS compliance This product displays (LF)(SN) on a label.

Note: The product listed above is supplied on embossed tape.



BHS CONNECTOR

3.5mm pitch/Disconnectable Crimp style connectors



- Low profile
- SMT configuration
- Applicable to special wires
- Housing lock also serves as polarizing device
- Adopt wide large for socket contact

Specifications

- Current rating: 1.0A AC, DC (AWG #24)
- Voltage rating: 1,400V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 3,800V AC/minute
- Applicable wire: AWG #28 to #24
Insulation O.D./0.9 to 1.7mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

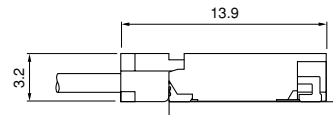
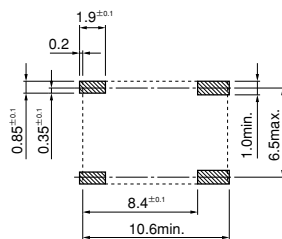
Standards

Recognized E60389

Certified LR20812

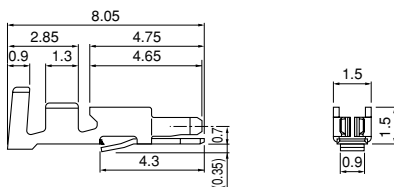
PC board layout (viewed from component side) and Assembly layout

Solder tabs Solder tails



Note: 1. Tolerances are non-cumulative: ± 0.1 mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SBHS-002T-P0.5A	0.08~0.22	28~24	0.9~1.7	10,000

Material and Finish

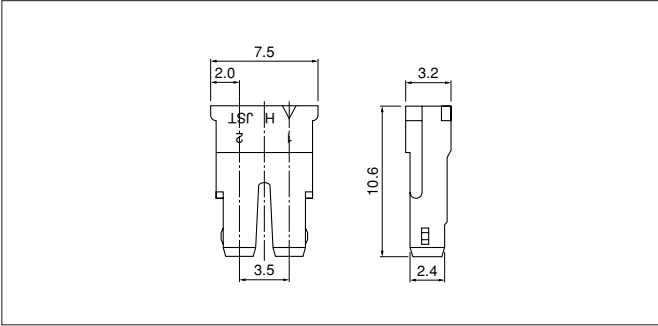
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Note: Contact JST for SBHS-002T-P0.5.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SBHS-002T-P0.5A	AP-K2N	MKS-L	MK/SBHS-002-05	APLMK SBHS002-05
		—	—	—

Housing

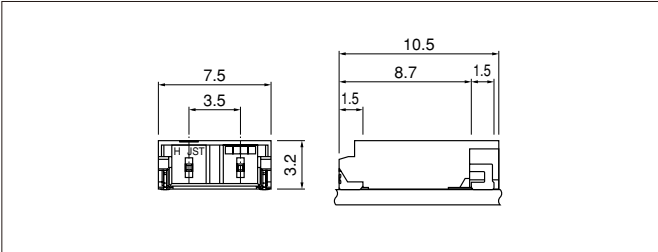


Circuits	Model No.	Q'ty / bag
2	BHSR-02VS-1 (N)	1,000

Material		
PA 66, UL94V-0, natural (white)		

RoHS compliance
Note: Contact JST for BHSR-02VS-1.

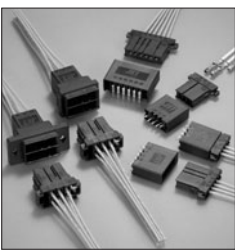
Shrouded header



Circuits	Model No.	Q'ty / reel
2	SM02B-BHSS-1-TB	1,000

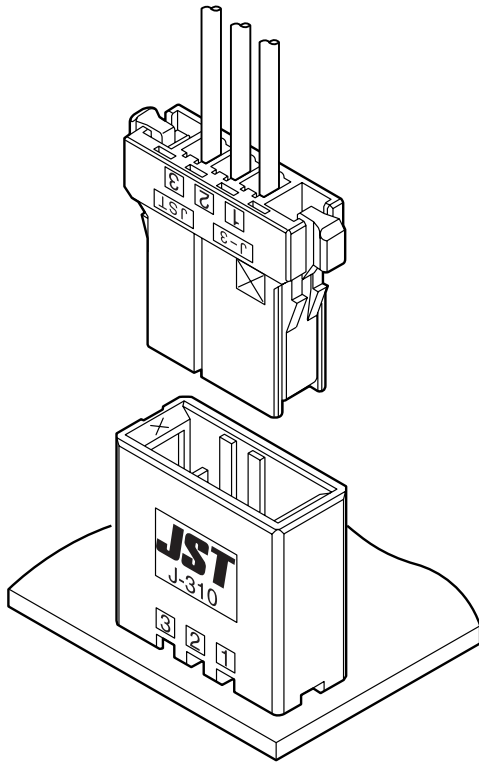
Material and Finish		
Post: Brass, copper-undercoated, tin-plated (reflow treatment)		
Wafer: PPA, UL94V-0, natural (ivory)		
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)		

RoHS compliance This product displays (LF)(SN) on a label.
Note: The products listed above are supplied on embossed tape.



JFA CONNECTOR J300 SERIES

3.81, 5.08mm pitch/Disconnectable Crimp style connectors(Wire-to-board/Wire-to-wire)



Connectors for signal circuit or power supply circuit, applicable to the factory automation, heavy electric machinery, and other industrial equipment in general. In spite of the various kinds of housings available, their contacts are designed to be common. The applicable tooling can be standardized.

- Double-spring construction
- Housing lances
- Secure locking method
- Recognition mark

Specifications

- Current rating: 15A AC, DC (Single circuit/AWG #14)
- Voltage rating: 310, 340 series [3.81mm pitch] 250V AC, DC
320, 350 series, 360T [5.08mm pitch] 600V AC, DC
- Temperature range: -55°C to +105°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/5mΩ max.
After environmental testing/10mΩ max.
- Insulation resistance: 1,000MΩ min.
- Withstanding voltage:
310, 340 series [3.81mm pitch] 1,500V AC/minute
320, 350 series, 360T [5.08mm pitch] 2,200V AC/minute
- Applicable wire: AWG #28 to #14 (0.08 to 2.0mm²)
- Applicable PC board thickness: 1.6 to 2.4mm

*Contact JST for details.

*Compliant with RoHS.

Current rating

Unit: A

Circuits	Wire size (AWG)							
	#14	#16	#18	#20	#22	#24	#26	#28
1	15.0	14.0	11.5	9.5	8.0	6.5	5.75	4.75
2	13.5	13.5	11.25	9.25	7.5	6.25	5.5	4.5
3	12.25	12.25	10.5	8.5	7.0	5.75	5.0	4.1
4	11.25	11.25	10.0	8.0	6.5	5.5	4.75	4.0
5	10.5	10.5	9.5	7.5	6.25	5.25	4.5	4.0
6	9.75	9.75	9.0	7.0	6.0	5.0	4.25	3.75
8	9.0	9.0	8.25	6.5	5.5	4.5	3.75	3.25
9	8.5	8.5	8.0	6.25	5.25	4.5	3.75	3.25
10	8.5	8.5	8.0	6.25	5.25	4.5	3.75	3.25
12	8.25	8.25	7.75	6.0	5.0	4.0	3.5	3.0
16	8.0	8.0	7.5	6.0	4.75	4.0	3.5	3.0
20	8.0	8.0	7.25	6.0	4.5	4.0	3.5	2.75

Standards

Recognized E60389

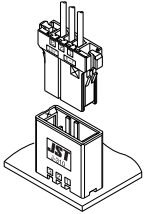
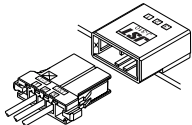
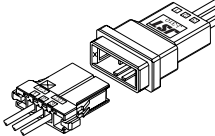
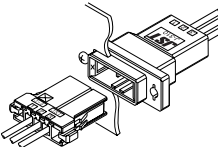
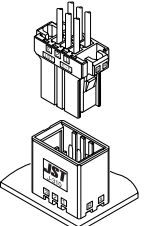
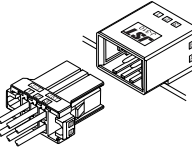
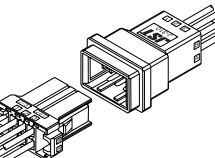
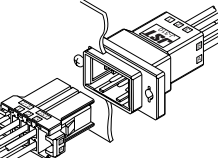
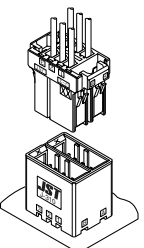
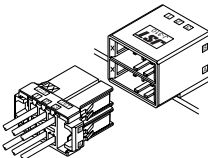
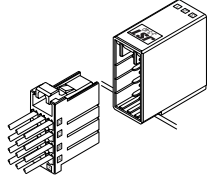
Certified LR20812

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JFA CONNECTOR/J300 SERIES

List of J300 series products

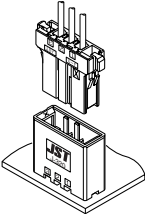
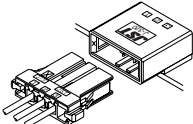
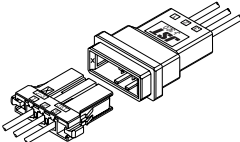
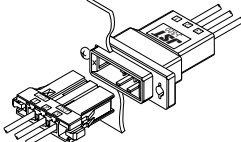
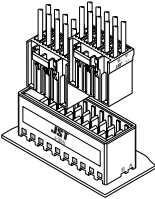
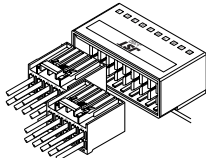
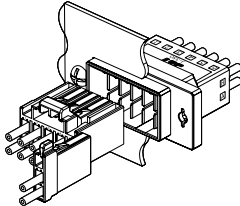
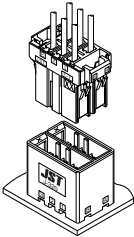
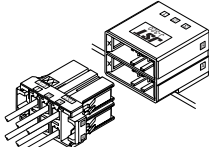
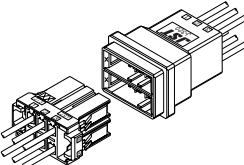
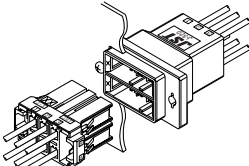
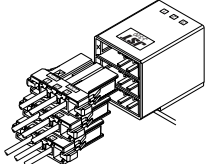
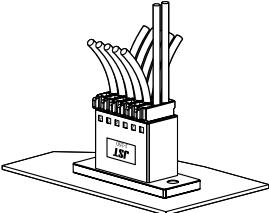
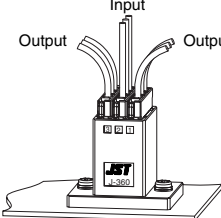
3.81mm pitch / Voltage rating 250V AC, DC

Type	Wire-to-board		Wire-to-wire	
	Top entry type	Side entry type	Free hanging type	Panel mounting type
J310S Single-row type				
Circuits	3, 4, 5, 6, 8, 10	3, 4, 5, 6, 8, 10	3, 5, 8, 10	3, 5, 8, 10
J310D Double-row type [line pitch 5.08mm]				
Circuits	6, 8, 10, 12, 16, 20	6, 8, 10, 12, 16, 20	6, 8, 10, 12, 16, 20	6, 8, 10, 12, 16, 20
J310M Double-row module type [line pitch 7.62mm]				
Circuits	6	6		
J340F Four-row type [line pitch 5.08mm]				
Circuits		12, 20		
—				
Circuits				

JFA CONNECTOR/J300 SERIES

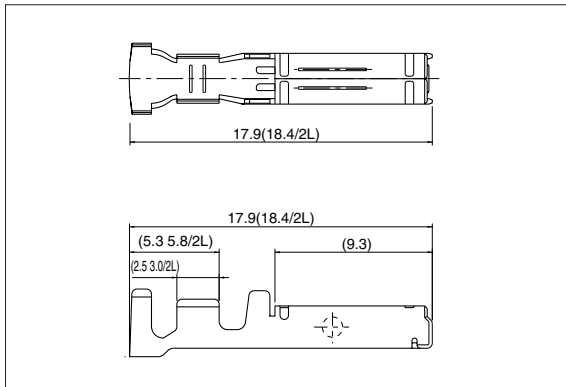
List of J300 series products

5.08mm pitch / Voltage rating 600V AC, DC

Wire-to-board		Wire-to-wire		Type
Top entry type	Side entry type	Free hanging type	Panel mounting type	
				J320S Single-row type
2, 3, 4, 5, 6	2, 3, 4, 5, 6	1, 2, 3, 4	1, 2, 3, 4	Circuits
				J350D Double-row type [line pitch 5.08mm]
12, 20	12, 20		12	Circuits
				J320M Double-row module type [line pitch 7.62mm]
6,10,12	6, 8,10,12	6,12	6,12, 20	Circuits
				J320T Triple-row module type [line pitch 7.62mm]
	9			Circuits
Double-row common type (J350DC)		Triple-row common type (J360T)		Type
	(line pitch 5.08mm)		(line pitch 6.5mm)	
12		9, 18, 24		Circuits

JFA CONNECTOR/J300 SERIES

Receptacle contact



Model No.		Applicable wire			Insulation O.D. (mm)	Q'ty	
Strip contact	Loose piece	Nominal	mm ²	AWG#		reel	Box(Loose piece)
SF3F-002 (*) -P2.0	BF3F-002 (*) -P2.0	S	0.08~0.20	28~24	0.8~1.4	3,700	1,000
SF3F-01 (*) -P2.0	BF3F-01 (*) -P2.0	M	0.20~0.50	24~20	1.2~2.6	3,700	1,000
SF3F-41 (*) -P2.0	LF3F-41 (*) -P2.0	L	0.50~1.25	20~16	1.8~2.8	3,200	1,000
SF3F-71 () -P2.0	*BF3F-71 (*) -P2.0	2L	1.25~2.0	16~14	2.4~3.4	3,200	1,000

Material and Finish

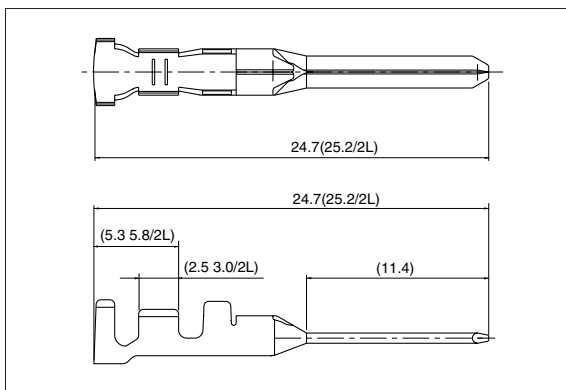
Copper alloy (superior conductivity), nickel-underplated, selective gold-plated tin-plated (reflow treatment)

RoHS compliance

Note: 1. Finish (*): GF...Nickel-undercoated, 0.38 μm selective gold-plated
GL...Nickel-undercoated, 0.76 μm selective gold-plated
T.....Tin-plated

2. *Marked products are not CSA/TÜV approved.

Tab contact



Model No.		Applicable wire			Insulation O.D. (mm)	Q'ty	
Strip contact	Loose piece	Nominal	mm ²	AWG#		reel	Box(Loose piece)
Under planning	Under planning	S	0.08~0.20	28~24	0.8~1.4	—	—
SF3M-01 (*) -M2.0N	BF3M-01 (*) -M2.0N	M	0.20~0.50	24~20	1.2~2.6	3,500	1,000
SF3M-41 (*) -M2.0N	LF3M-41 (*) -M2.0N	L	0.50~1.25	20~16	1.8~2.8	3,300	1,000
SF3M-71 () -M2.0N	*BF3M-71 (*) -M2.0N	2L	1.25~2.0	16~14	2.4~3.4	3,200	1,000

Material and Finish

Copper alloy (superior conductivity), nickel-underplated, selective gold-plated tin-plated (reflow treatment)

RoHS compliance

Note: 1. Finish (*): GF...Nickel-undercoated, 0.38 μm selective gold-plated
GL...Nickel-undercoated, 0.76 μm selective gold-plated
T.....Tin-plated

2. *Marked products are not CSA/TÜV approved.

Crimping machine, Applicator

Strip contact Model No.	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies	Hand crimp tools
SF3F-002 (*) -P2.0	AP-K2N	MKS-L	MK/SF3F-002-20	APLMK SF3F/M002-20	YRK-8821
SF3F-01 (*) -P2.0			MK/SF3F/M-01-20	APLMK SF3F/M01-20	YRK-8811
SF3M-01 (*) -M2.0N					
SF3F-41 (*) -P2.0			MK/SF3F/M-41-20	APLMK SF3F/M41-20	YRK-8801
SF3M-41 (*) -M2.0N					
SF3F-71 (*) -P2.0			MK/SF3F/M-71-20	APLMK SF3F/M71-20	YRK-1071
SF3M-71 (*) -M2.0N					

Note: Finish (*): GF...Nickel-undercoated, 0.38 μm selective gold-plated
GL...Nickel-undercoated, 0.76 μm selective gold-plated
T.....Tin-plated

Loose piece	Hand crimp tools
BF3F-002 (*) -P2.0	YRF-882
BF3F-01 (*) -P2.0	YRF-881
BF3M-01 (*) -M2.0N	
LF3F-41 (*) -P2.0	YRF-880
LF3M-41 (*) -M2.0N	
BF3F-71 (*) -P2.0	YRF-1070
BF3M-71 (*) -M2.0N	YRF-1071

Note: Finish (*): GF...Nickel-undercoated, 0.38 μm selective gold-plated
GL...Nickel-undercoated, 0.76 μm selective gold-plated
T.....Tin-plated

- Extraction tool for J300 series: EJ-JFAJ3
- Refer to page 15, 16 for details of YRK series hand crimping tools that uses a strip contact.

Recognition mark

• Plating of the contact

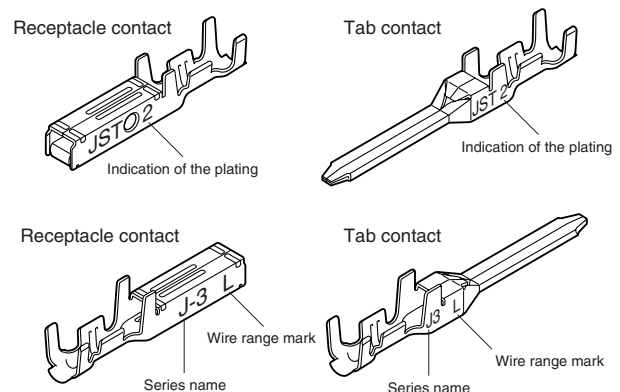
Each contact has a marking on its side so that the type or thickness of the plating is recognized.

- ex. 2 ... gold-plated 0.38 μm thickness
3 ... gold-plated 0.76 μm thickness
5 ... tin-plated

• Common marking on the contact and its application tools

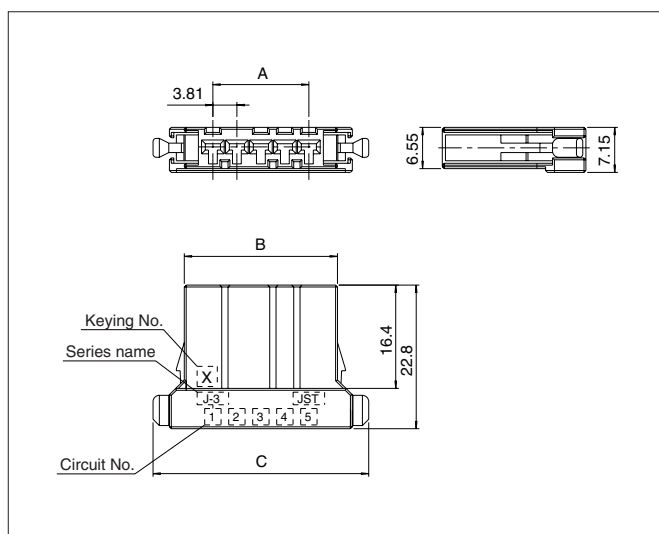
In order to avoid incorrect combination of the hand crimp tools or extraction tools and the contacts, the series name (for example J-3) and wire range mark (S, M, L, 2L) are shown on both the tools and the contacts.

For example J-3 S..... AWG #28 ~ #24
M..... AWG #24 ~ #20
L..... AWG #20 ~ #16
2L.... AWG #16 ~ #14



J300 SERIES/J310S

Receptacle housing



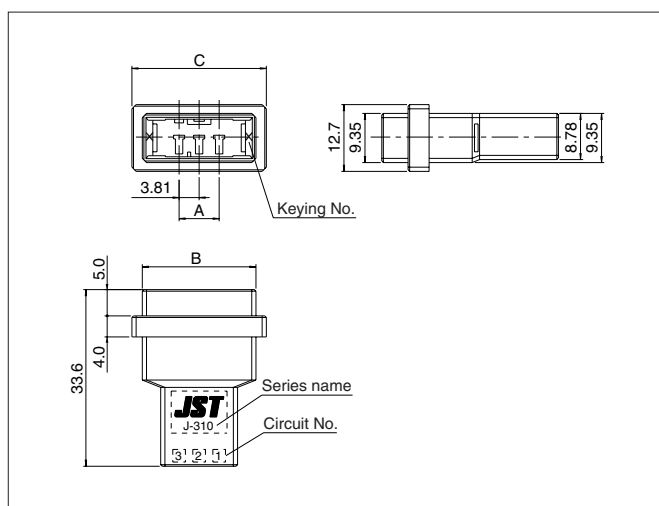
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
3	X	F31FSS-03V-KX	7.62	16.70	26.62	200
	Y	F31FSS-03V-KY	7.62	16.70	26.62	200
4	X	F31FSS-04V-KX	11.43	20.51	30.43	200
	Y	F31FSS-04V-KY	11.43	20.51	30.43	200
5	X	F31FSS-05V-KX	15.24	24.32	34.24	200
	Y	F31FSS-05V-KY	15.24	24.32	34.24	200
6	X	F31FSS-06V-KX	19.05	28.13	38.05	200
	Y	F31FSS-06V-KY	19.05	28.13	38.05	200
8	X	F31FSS-08V-KX	26.67	35.75	45.67	100
	Y	F31FSS-08V-KY	26.67	35.75	45.67	100
10	X	F31FSS-10V-KX	34.29	43.37	53.29	100
	Y	F31FSS-10V-KY	34.29	43.37	53.29	100

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing (Free hanging type)



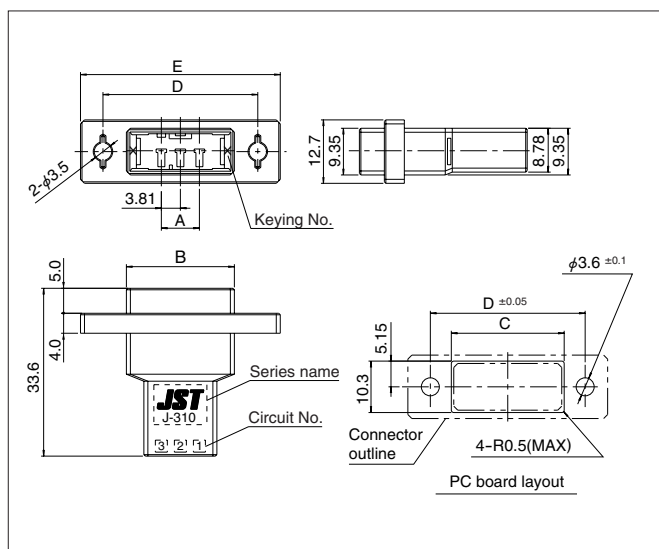
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
3	X	F31MSF-03V-KX	7.62	21.62	25.57	200
	Y	F31MSF-03V-KY	7.62	21.62	25.57	200
5	X	F31MSF-05V-KX	15.24	29.24	33.19	200
	Y	F31MSF-05V-KY	15.24	29.24	33.19	200
8	X	F31MSF-08V-KX	26.67	40.67	44.62	100
	Y	F31MSF-08V-KY	26.67	40.67	44.62	100
10	X	F31MSF-10V-KX	34.29	48.29	52.24	100
	Y	F31MSF-10V-KY	34.29	48.29	52.24	100

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing (Panel mounting type)



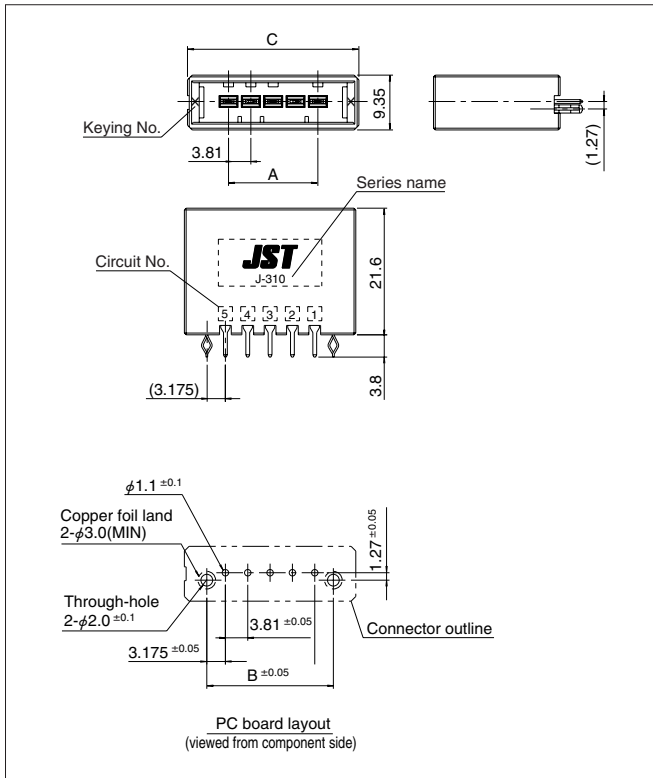
Circuits	Keying	Model No.	Dimensions (mm)					Q'ty / bag
			A	B	C	D	E	
3	X	F31MSP-03V-KX	7.62	21.62	22.60	31.00	40.00	200
	Y	F31MSP-03V-KY	7.62	21.62	22.60	31.00	40.00	200
5	X	F31MSP-05V-KX	15.24	29.24	30.20	38.00	47.00	200
	Y	F31MSP-05V-KY	15.24	29.24	30.20	38.00	47.00	200
8	X	F31MSP-08V-KX	26.67	40.67	41.60	50.00	59.00	100
	Y	F31MSP-08V-KY	26.67	40.67	41.60	50.00	59.00	100
10	X	F31MSP-10V-KX	34.29	48.29	49.20	58.00	67.00	100
	Y	F31MSP-10V-KY	34.29	48.29	49.20	58.00	67.00	100

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Header (Top entry type)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
3	X	B03B-F31SK-GGXR	7.62	13.97	21.62	220
	Y	B03B-F31SK-GGYR	7.62	13.97	21.62	220
4	X	B04B-F31SK-GGXR	11.43	17.78	25.43	180
	Y	B04B-F31SK-GGYR	11.43	17.78	25.43	180
5	X	B05B-F31SK-GGXR	15.24	21.59	29.24	160
	Y	B05B-F31SK-GGYR	15.24	21.59	29.24	160
6	X	B06B-F31SK-GGXR	19.05	25.40	33.05	140
	Y	B06B-F31SK-GGYR	19.05	25.40	33.05	140
8	X	B08B-F31SK-GGXR	26.67	33.02	40.67	120
	Y	B08B-F31SK-GGYR	26.67	33.02	40.67	120
10	X	B10B-F31SK-GGXR	34.29	40.64	48.29	100
	Y	B10B-F31SK-GGYR	34.29	40.64	48.29	100

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

Housing: Glass-filled PBT, UL94V-0, black

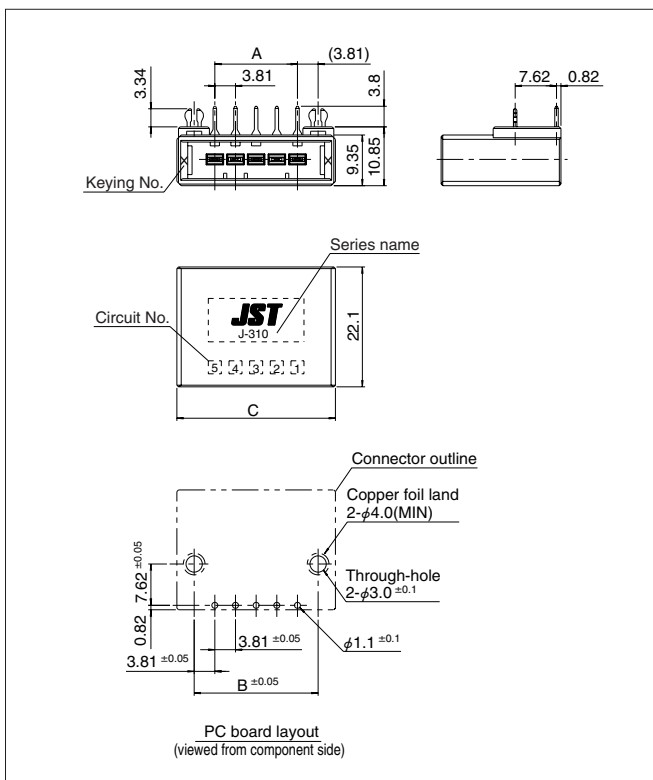
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance This product displays (LF)(AU) on a label.

Note: 1. Contact JST for the headers supplied in magazine stick.

2. Contact JST for 0.76 μ m gold-plated product and tin-plated product.

Header (Side entry type)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
3	X	S03B-F31SK-GGXR	7.62	15.24	21.62	165
	Y	S03B-F31SK-GGYR	7.62	15.24	21.62	165
4	X	S04B-F31SK-GGXR	11.43	19.05	25.43	135
	Y	S04B-F31SK-GGYR	11.43	19.05	25.43	135
5	X	S05B-F31SK-GGXR	15.24	22.86	29.24	120
	Y	S05B-F31SK-GGYR	15.24	22.86	29.24	120
6	X	S06B-F31SK-GGXR	19.05	26.67	33.05	105
	Y	S06B-F31SK-GGYR	19.05	26.67	33.05	105
8	X	S08B-F31SK-GGXR	26.67	34.29	40.67	90
	Y	S08B-F31SK-GGYR	26.67	34.29	40.67	90
10	X	S10B-F31SK-GGXR	34.29	41.91	48.29	75
	Y	S10B-F31SK-GGYR	34.29	41.91	48.29	75

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

Housing: Glass-filled PBT, UL94V-0, black

Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

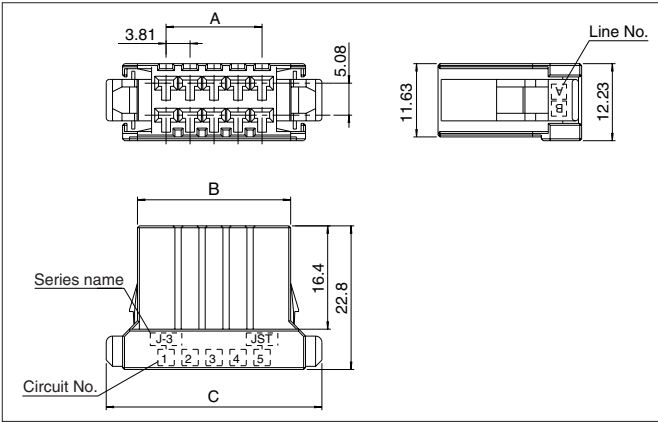
RoHS compliance This product displays (LF)(AU) on a label.

Note: 1. Contact JST for the headers supplied in magazine stick.

2. Contact JST for 0.76 μ m gold-plated product and tin-plated product.

J300 SERIES/J310D

Receptacle housing



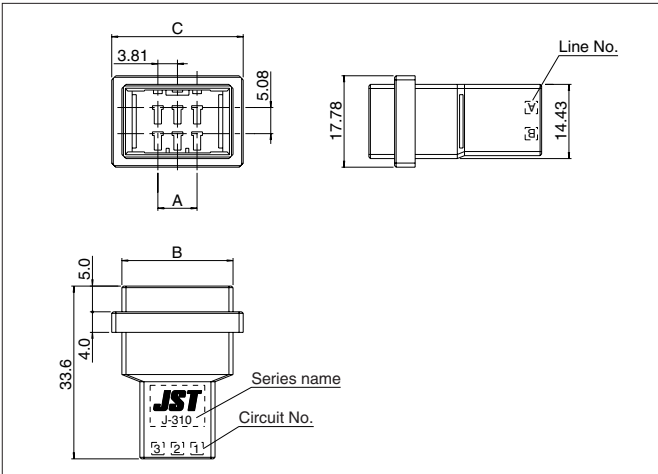
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
6	—	F31FDS-06V-K	7.62	16.70	26.62	200
8	—	F31FDS-08V-K	11.43	20.51	30.43	100
10	—	F31FDS-10V-K	15.24	24.32	34.24	100
12	—	F31FDS-12V-K	19.05	28.13	38.05	100
16	—	F31FDS-16V-K	26.67	35.75	45.67	100
20	—	F31FDS-20V-K	34.29	43.37	53.29	100

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing (Free hanging type)



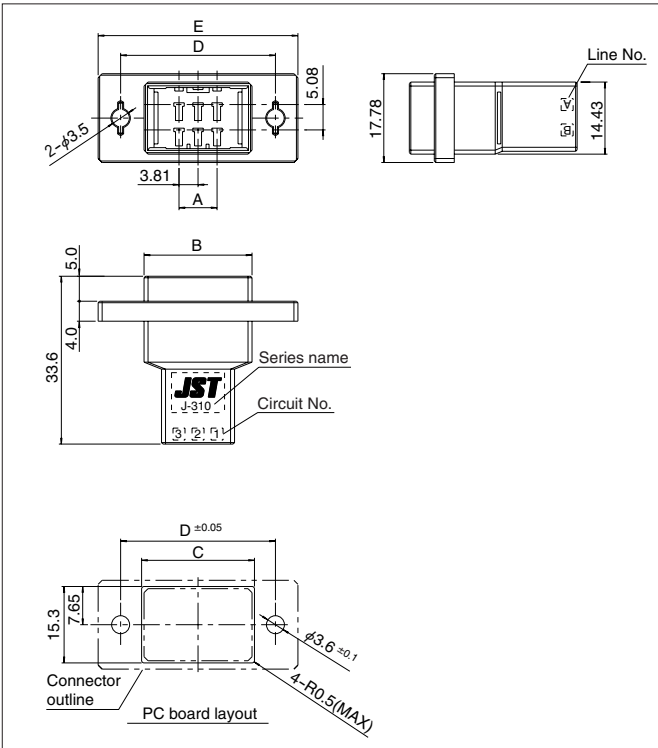
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
6	—	F31MDF-06V-K	7.62	21.62	25.57	200
8	—	F31MDF-08V-K	11.43	25.43	29.38	100
10	—	F31MDF-10V-K	15.24	29.24	33.19	100
12	—	F31MDF-12V-K	19.05	33.05	37.00	100
16	—	F31MDF-16V-K	26.67	40.67	44.62	100
20	—	F31MDF-20V-K	34.29	48.29	52.24	100

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing (Panel mounting type)



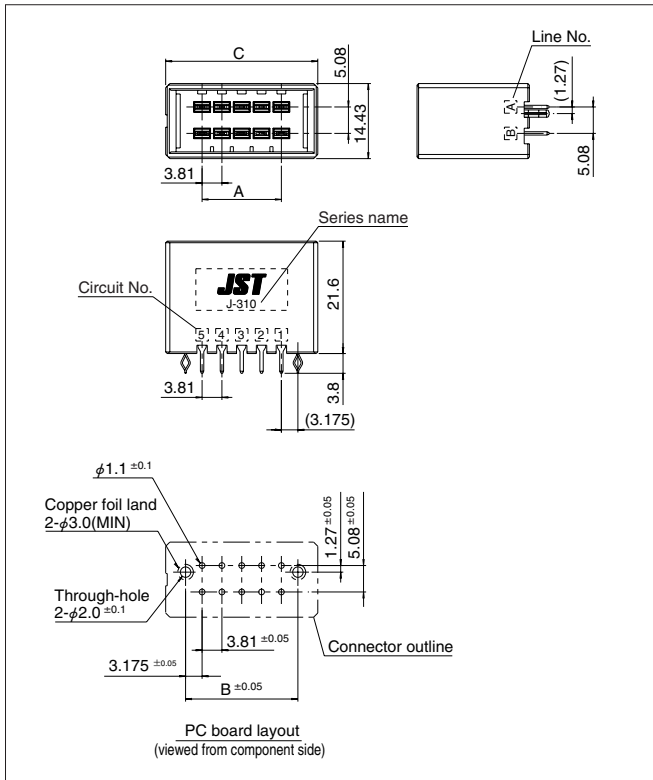
Circuits	Keying	Model No.	Dimensions (mm)					Q'ty / bag
			A	B	C	D	E	
6	—	F31MDP-06V-K	7.62	21.62	22.60	31.00	40.00	200
8	—	F31MDP-08V-K	11.43	25.43	26.40	34.50	43.50	100
10	—	F31MDP-10V-K	15.24	29.24	30.20	38.00	47.00	100
12	—	F31MDP-12V-K	19.05	33.05	34.00	42.00	51.00	100
16	—	F31MDP-16V-K	26.67	40.67	41.60	50.00	59.00	100
20	—	F31MDP-20V-K	34.29	48.29	49.20	58.00	67.00	100

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Header (Top entry type)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
6	—	B06B-F31DK-GGR	7.62	13.97	21.62	132
8	—	B08B-F31DK-GGR	11.43	17.78	25.43	108
10	—	B10B-F31DK-GGR	15.24	21.59	29.24	96
12	—	B12B-F31DK-GGR	19.05	25.40	33.05	84
16	—	B16B-F31DK-GGR	26.67	33.02	40.67	72
20	—	B20B-F31DK-GGR	34.29	40.64	48.29	60

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

Housing: Glass-filled PBT, UL94V-0, black

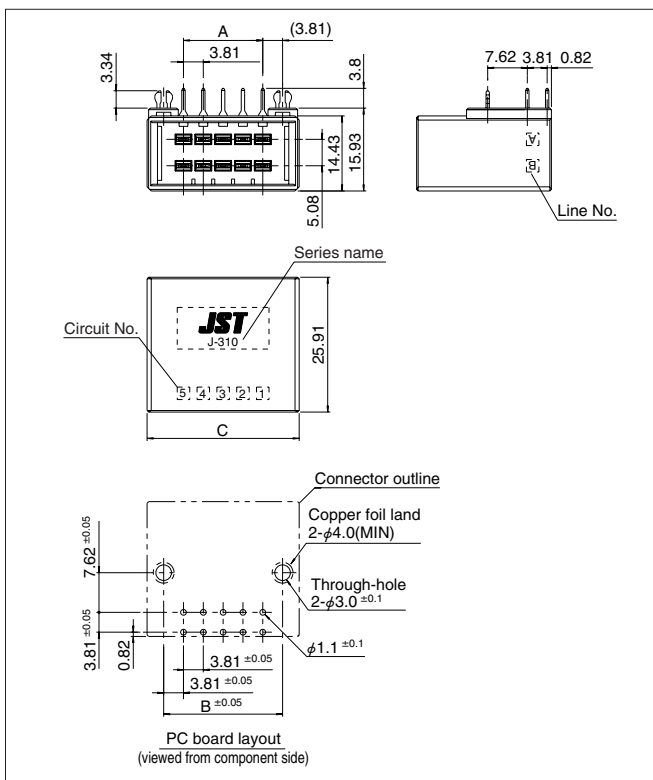
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance This product displays (LF) (AU) on a label.

Note: 1. Contact JST for the headers supplied in magazine stick.

2. Contact JST for 0.76 μm gold-plated product and tin-plated product.

Header (Side entry type)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
6	—	S06B-F31DK-GGR	7.62	15.24	21.62	88
8	—	S08B-F31DK-GGR	11.43	19.05	25.43	72
10	—	S10B-F31DK-GGR	15.24	22.86	29.24	64
12	—	S12B-F31DK-GGR	19.05	26.67	33.05	56
16	—	S16B-F31DK-GGR	26.67	34.29	40.67	48
20	—	S20B-F31DK-GGR	34.29	41.91	48.29	40

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

Housing: Glass-filled PBT, UL94V-0, black

Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

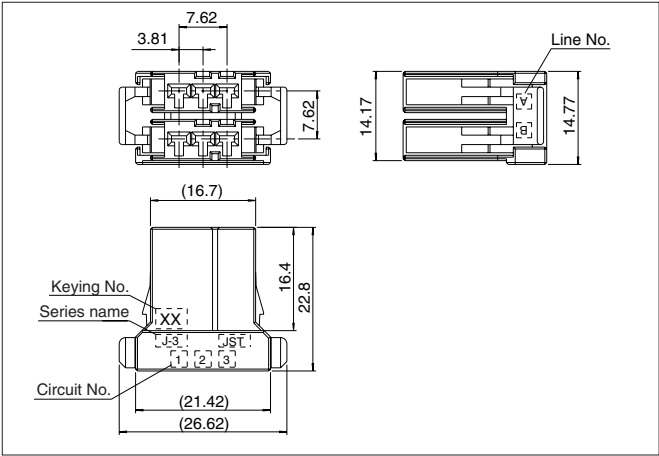
RoHS compliance This product displays (LF) (AU) on a label.

Note: 1. Contact JST for the headers supplied in magazine stick.

2. Contact JST for 0.76 μm gold-plated product and tin-plated product.

J300 SERIES/J310M

Receptacle housing

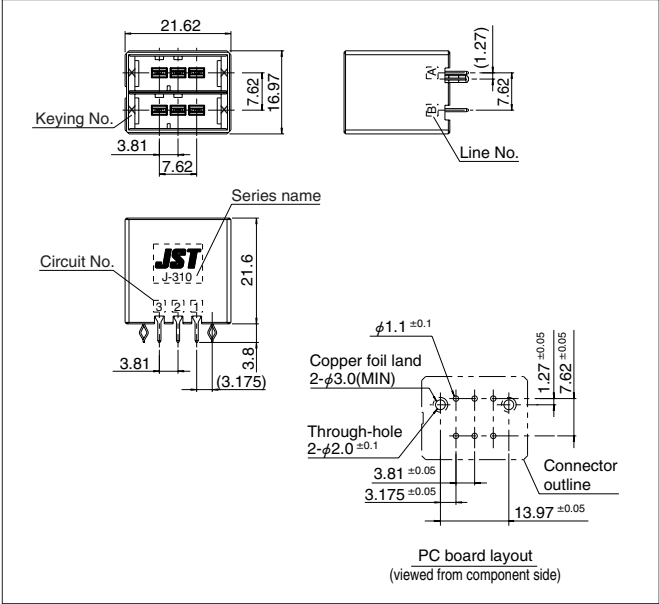


Circuits	Keying	Model No.	Q'ty / box
6	XX	F31FMS-06V-KXX	100
	YY	F31FMS-06V-KYY	100
	XY	F31FMS-06V-KXY	100
Material			

Glass-filled PBT, UL94V-0, black

RoHS compliance

Header (Top entry type)

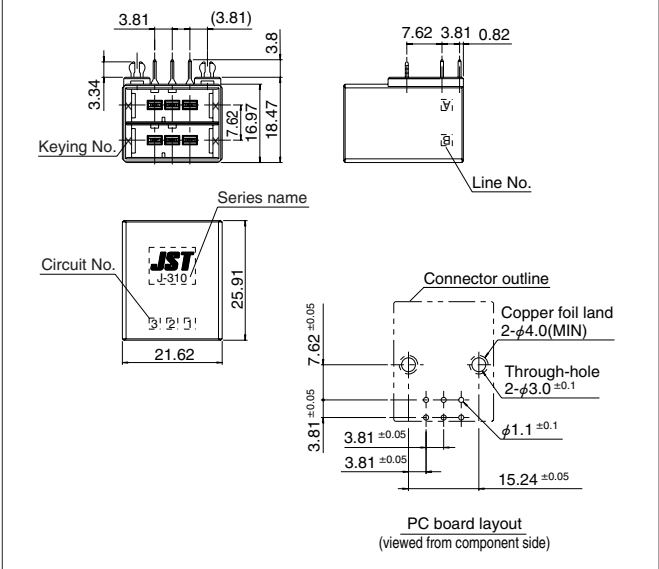


Circuits	Keying	Model No.	Q'ty / box
6	XX	B06B-F31MK-GGXXR	132
	YY	B06B-F31MK-GGYR	132
	XY	B06B-F31MK-GGXYR	132
Material and Finish			

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance This product displays (LF)(AU) on a label.
Note: 1. Contact JST for the headers supplied in magazine stick.
2. Contact JST for 0.76 μm gold-plated product and tin-plated product.

Header (Side entry type)



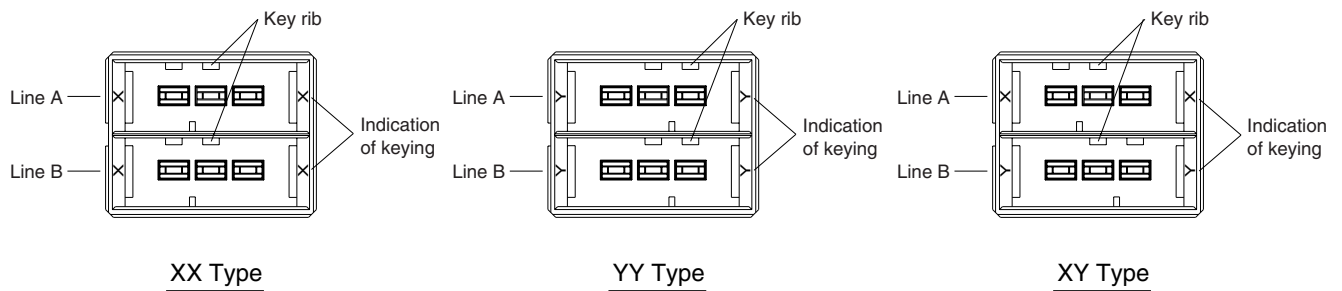
Circuits	Keying	Model No.	Q'ty / box
6	XX	S06B-F31MK-GGXXR	88
	YY	S06B-F31MK-GGYR	88
	XY	S06B-F31MK-GGXYR	88
Material and Finish			

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance This product displays (LF)(AU) on a label.
Note: 1. Contact JST for the headers supplied in magazine stick.
2. Contact JST for 0.76 μm gold-plated product and tin-plated product.

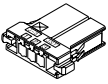


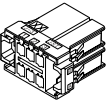
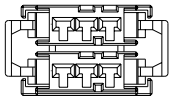
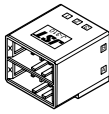
Keying

J310M series have mis-insertion preventive keying.
Available in 3 types – XX type, YY type and XY type.
(Headers viewed from the mating side are shown below.)



List of combinations

With the combination of the J310M headers and the J310M/J310S (3 circuits) receptacle housings, the following modular combinations are possible.

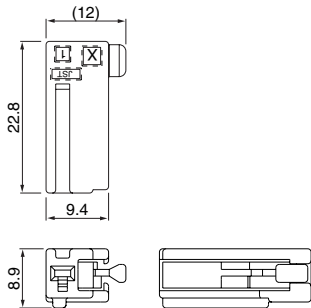
Receptacle housing		Header			
		Top entry type		Side entry type	
Single-row 3 circuits (J310S) 	X Type F31FSS-03V-KX		X Type B03B-F31SK-GGX■		X Type S03B-F31SK-GGX■
	Y Type F31FSS-03V-KY		Y Type B03B-F31SK-GGY■		Y Type S03B-F31SK-GGY■
Double-row 6 circuits (J310M) 	XX Type F31FMS-06V-KXX		XX Type B06B-F31MK-GGXX■		XX Type S06B-F31MK-GGXX■
	YY Type F31FMS-06V-KYY		YY Type B06B-F31MK-GGYY■		YY Type S06B-F31MK-GGYY■
	XY Type F31FMS-06V-KXY		XY Type B06B-F31MK-GGXY■		XY Type S06B-F31MK-GGXY■

Note: Packaging method is indicated in ■. (R=Tray)

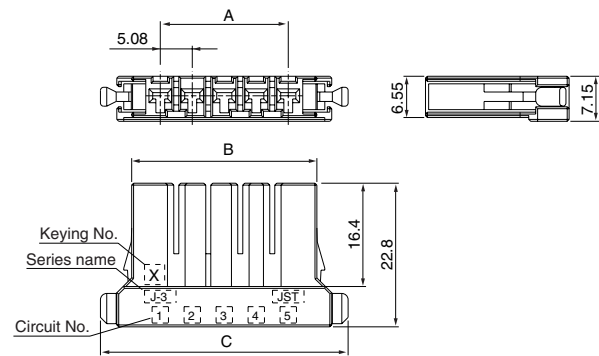
J300 SERIES/J320S

Receptacle housing

• Single circuit



• 2 to 6 circuits



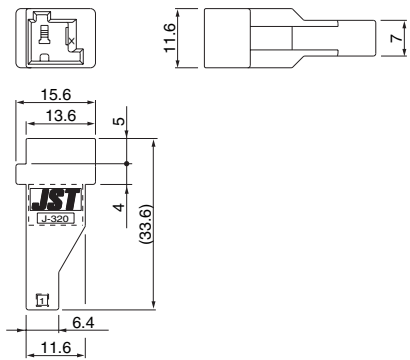
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
1	X	F32FSS-01V-KX	—	—	—	200
	Y	F32FSS-01V-KY	—	—	—	200
2	X	F32FSS-02V-KX	5.08	14.16	24.08	200
	Y	F32FSS-02V-KY	5.08	14.16	24.08	200
3	X	F32FSS-03V-KX	10.16	19.24	29.16	200
	Y	F32FSS-03V-KY	10.16	19.24	29.16	200
4	X	F32FSS-04V-KX	15.24	24.32	34.24	200
	Y	F32FSS-04V-KY	15.24	24.32	34.24	200
5	X	F32FSS-05V-KX	20.32	29.40	39.32	200
	Y	F32FSS-05V-KY	20.32	29.40	39.32	200
6	X	F32FSS-06V-KX	25.40	34.48	44.40	100
	Y	F32FSS-06V-KY	25.40	34.48	44.40	100
Material						

Glass-filled PBT, UL94V-0, black

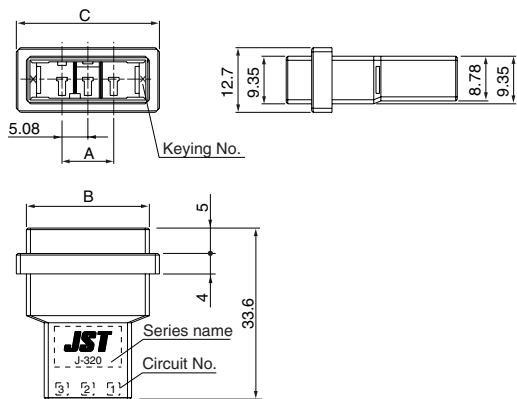
RoHS compliance

Tab housing (Free hanging type)

• Single circuit



• 2 to 4 circuits



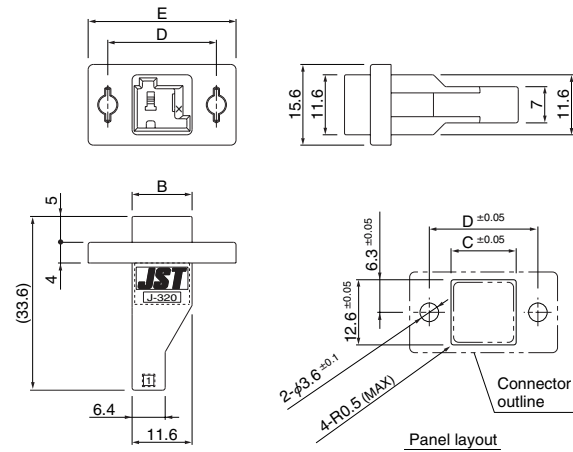
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
1	X	F32MSF-01V-KX	—	—	—	150
	Y	F32MSF-01V-KY	—	—	—	150
2	X	F32MSF-02V-KX	5.08	19.08	23.03	200
	Y	F32MSF-02V-KY	5.08	19.08	23.03	200
3	X	F32MSF-03V-KX	10.16	24.16	28.11	200
	Y	F32MSF-03V-KY	10.16	24.16	28.11	200
4	X	F32MSF-04V-KX	15.24	29.24	33.19	200
	Y	F32MSF-04V-KY	15.24	29.24	33.19	200
Material						

Glass-filled PBT, UL94V-0, black

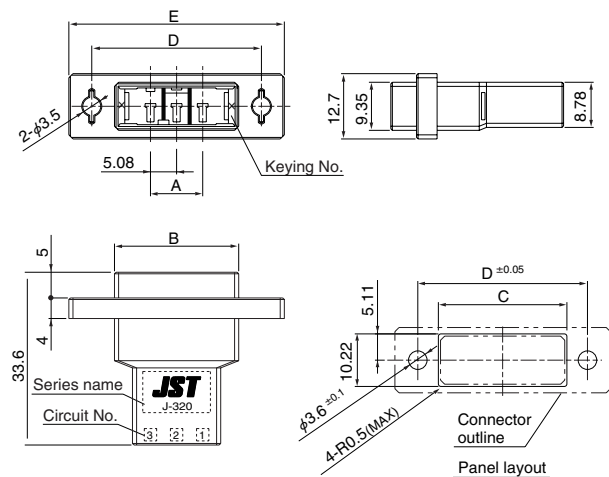
RoHS compliance

Tab housing (Panel mounting type)

• Single circuit



• 2 to 4 circuits



Circuits	Keying	Model No.	Dimensions (mm)					Q'ty / bag
			A	B	C	D	E	
1	X	F32MSP-01V-KX	—	11.60	12.60	21.00	28.60	150
	Y	F32MSP-01V-KY	—	11.60	12.60	21.00	28.60	150
2	X	F32MSP-02V-KX	5.08	19.08	20.00	28.00	36.83	200
	Y	F32MSP-02V-KY	5.08	19.08	20.00	28.00	36.83	200
3	X	F32MSP-03V-KX	10.16	24.16	25.00	33.00	41.91	200
	Y	F32MSP-03V-KY	10.16	24.16	25.00	33.00	41.91	200
4	X	F32MSP-04V-KX	15.24	29.24	30.00	38.00	46.99	200
	Y	F32MSP-04V-KY	15.24	29.24	30.00	38.00	46.99	200

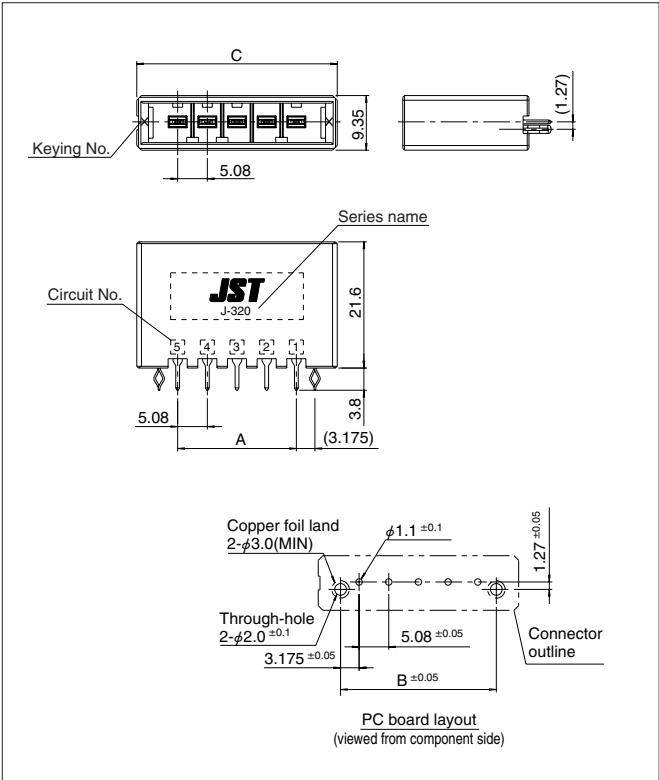
Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

J300 SERIES/J320S

Header (Top entry type)



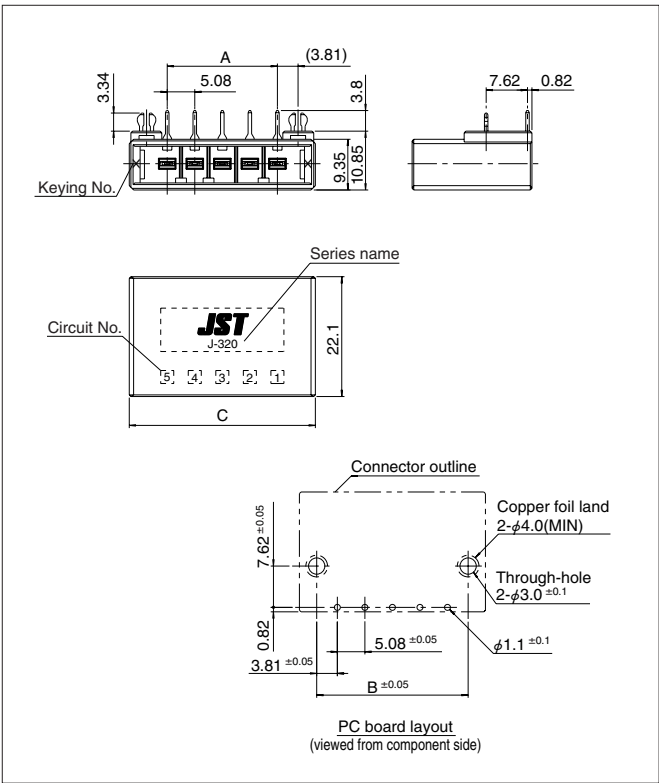
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
2	X	B02B-F32SK-GGXR	5.08	11.43	19.08	240
	Y	B02B-F32SK-GGYR	5.08	11.43	19.08	240
3	X	B03B-F32SK-GGXR	10.16	16.51	24.16	200
	Y	B03B-F32SK-GGYR	10.16	16.51	24.16	200
4	X	B04B-F32SK-GGXR	15.24	21.59	29.24	160
	Y	B04B-F32SK-GGYR	15.24	21.59	29.24	160
5	X	B05B-F32SK-GGXR	20.32	26.67	34.32	140
	Y	B05B-F32SK-GGYR	20.32	26.67	34.32	140
6	X	B06B-F32SK-GGXR	25.40	31.75	39.40	120
	Y	B06B-F32SK-GGYR	25.40	31.75	39.40	120

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance This product displays (LF)(AU) on a label.
Note: 1. Contact JST for the headers supplied in magazine stick.
2. Contact JST for 0.76 μ m gold-plated product and tin-plated product.

Header (Side entry type)



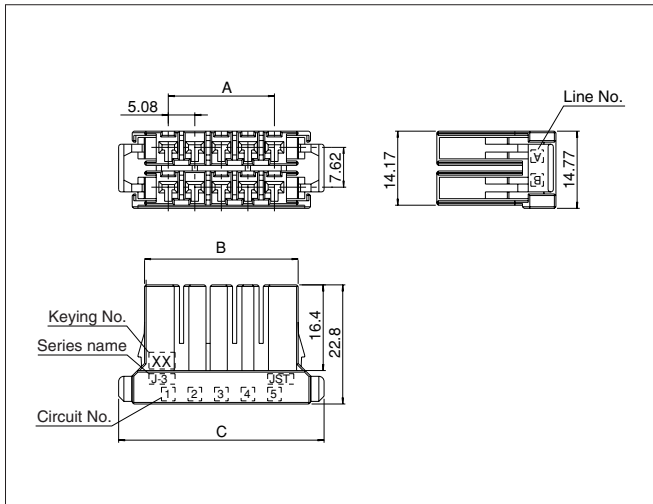
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
2	X	S02B-F32SK-GGXR	5.08	12.70	19.08	180
	Y	S02B-F32SK-GGYR	5.08	12.70	19.08	180
3	X	S03B-F32SK-GGXR	10.16	17.78	24.16	150
	Y	S03B-F32SK-GGYR	10.16	17.78	24.16	150
4	X	S04B-F32SK-GGXR	15.24	22.86	29.24	120
	Y	S04B-F32SK-GGYR	15.24	22.86	29.24	120
5	X	S05B-F32SK-GGXR	20.32	27.94	34.32	105
	Y	S05B-F32SK-GGYR	20.32	27.94	34.32	105
6	X	S06B-F32SK-GGXR	25.40	33.02	39.40	90
	Y	S06B-F32SK-GGYR	25.40	33.02	39.40	90

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance This product displays (LF)(AU) on a label.
Note: 1. Contact JST for the headers supplied in magazine stick.
2. Contact JST for 0.76 μ m gold-plated product and tin-plated product.

Receptacle housing



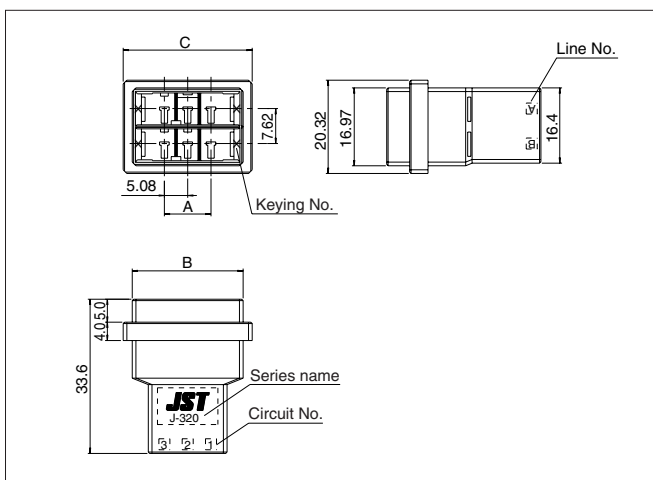
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
6	XX	F32FMS-06V-KXX	10.16	19.24	29.16	100
	YY	F32FMS-06V-KYY	10.16	19.24	29.16	100
	XY	F32FMS-06V-KXY	10.16	19.24	29.16	100
10	XX	F32FMS-10V-KXX	20.32	29.40	39.32	100
	YY	F32FMS-10V-KYY	20.32	29.40	39.32	100
	XY	F32FMS-10V-KXY	20.32	29.40	39.32	100
12	XX	F32FMS-12V-KXX	25.40	34.48	44.40	100
	YY	F32FMS-12V-KYY	25.40	34.48	44.40	100
	XY	F32FMS-12V-KXY	25.40	34.48	44.40	100
20	XX	F32FMS-20V-KXX	45.72	54.80	64.72	96(box)
	YY	Under planning	—	—	—	—
	XY	Under planning	—	—	—	—

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing (Free hanging type)



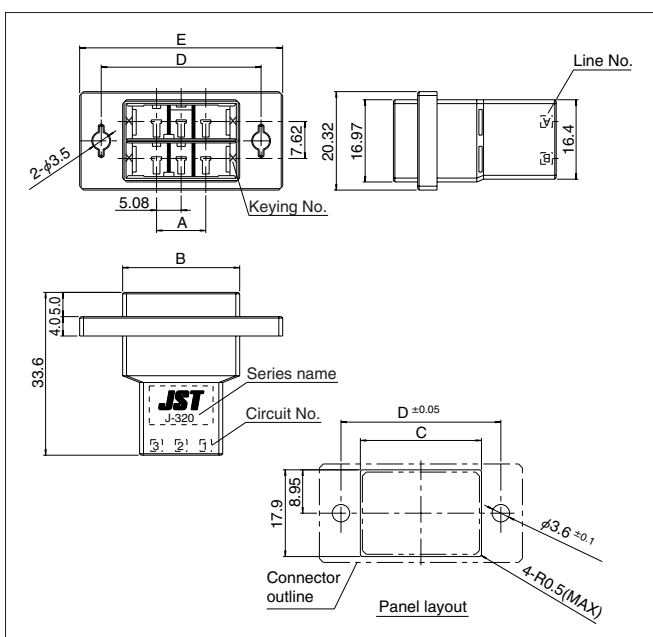
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
6	XX	F32MDF-06V-KXX	10.16	24.16	28.11	100
	YY	F32MDF-06V-KYY	10.16	24.16	28.11	100
	XY	F32MDF-06V-KXY	10.16	24.16	28.11	100
12	XX	F32MDF-12V-KXX	25.40	39.40	43.35	100
	YY	F32MDF-12V-KYY	25.40	39.40	43.35	100
	XY	F32MDF-12V-KXY	25.40	39.40	43.35	100

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing (Panel mounting type)



Circuits	Keying	Model No.	Dimensions (mm)					Q'ty / bag
			A	B	C	D	E	
6	XX	F32MDP-06V-KXX	10.16	24.16	25.00	33.00	41.91	100
	YY	F32MDP-06V-KYY	10.16	24.16	25.00	33.00	41.91	100
	XY	F32MDP-06V-KXY	10.16	24.16	25.00	33.00	41.91	100
12	XX	F32MDP-12V-KXX	25.40	39.40	41.00	49.00	57.91	100
	YY	F32MDP-12V-KYY	25.40	39.40	41.00	49.00	57.91	100
	XY	F32MDP-12V-KXY	25.40	39.40	41.00	49.00	57.91	100
20	XX	F32MDP-20V-KXX	45.72	59.72	61.00	70.00	78.23	40(box)
	YY	Under planning	—	—	—	—	—	—
	XY	Under planning	—	—	—	—	—	—

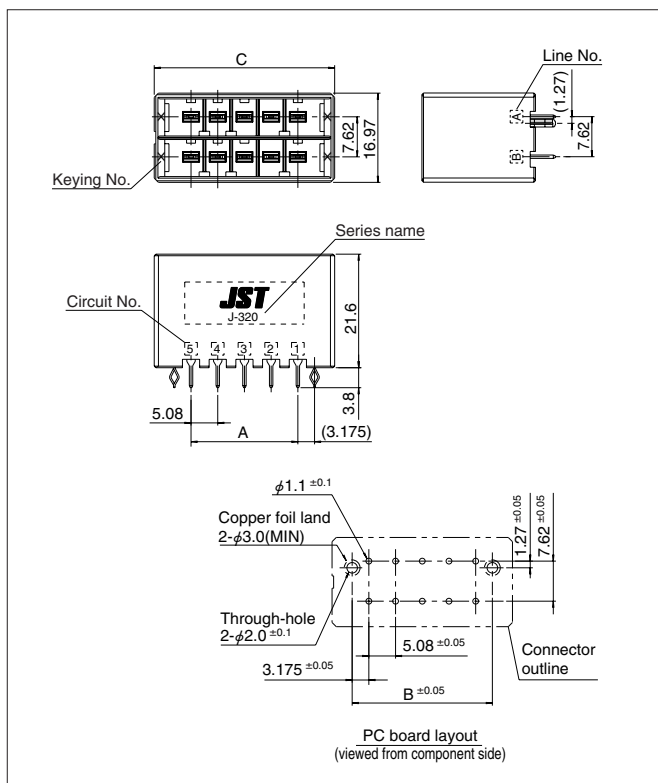
Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

J300 SERIES/J320M

Header (Top entry type)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
6	XX	B06B-F32MK-GGXXR	10.16	16.51	24.16	120
	YY	B06B-F32MK-GGYR	10.16	16.51	24.16	120
	XY	B06B-F32MK-GGXRYR	10.16	16.51	24.16	120
10	XX	B10B-F32MK-GGXXR	20.32	26.67	34.32	84
	YY	B10B-F32MK-GGYR	20.32	26.67	34.32	84
	XY	B10B-F32MK-GGXRYR	20.32	26.67	34.32	84
12	XX	B12B-F32MK-GGXXR	25.40	31.75	39.40	72
	YY	B12B-F32MK-GGYR	25.40	31.75	39.40	72
	XY	B12B-F32MK-GGXRYR	25.40	31.75	39.40	72

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

Housing: Glass-filled PBT, UL94V-0, black

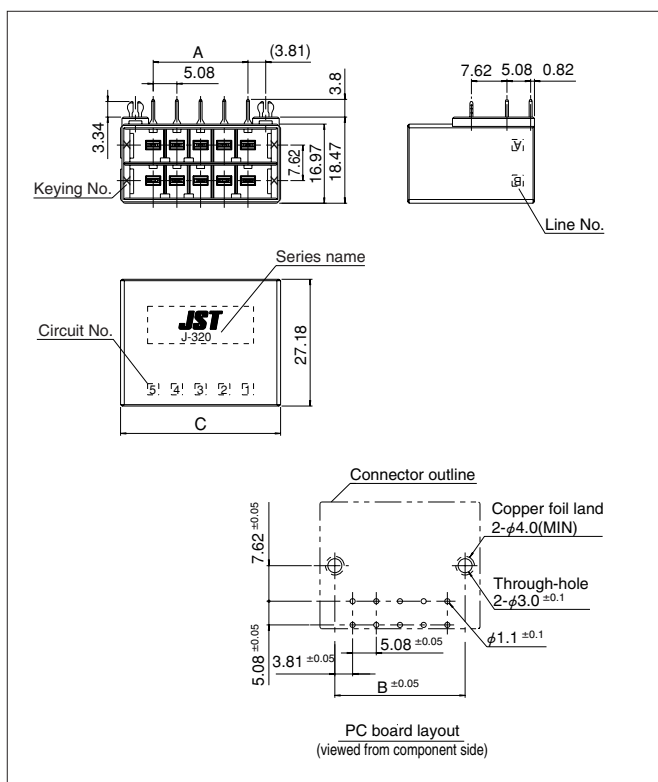
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance This product displays (LF)(AU) on a label.

Note: 1. Contact JST for the headers supplied in magazine stick.

2. Contact JST for 0.76 μ m gold-plated product and tin-plated product.

Header (Side entry type)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
6	XX	S06B-F32MK-GGXXR	10.16	17.78	24.16	80
	YY	S06B-F32MK-GGYR	10.16	17.78	24.16	80
	XY	S06B-F32MK-GGXRYR	10.16	17.78	24.16	80
8	XY	S08B-F32MK-GGXRYR	15.24	22.86	29.24	64
10	XX	S10B-F32MK-GGXXR	20.32	27.94	34.32	56
	YY	S10B-F32MK-GGYR	20.32	27.94	34.32	56
	XY	S10B-F32MK-GGXRYR	20.32	27.94	34.32	56
12	XX	S12B-F32MK-GGXXR	25.40	33.02	39.40	48
	YY	S12B-F32MK-GGYR	25.40	33.02	39.40	48
	XY	S12B-F32MK-GGXRYR	25.40	33.02	39.40	48

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

Housing: Glass-filled PBT, UL94V-0, black

Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

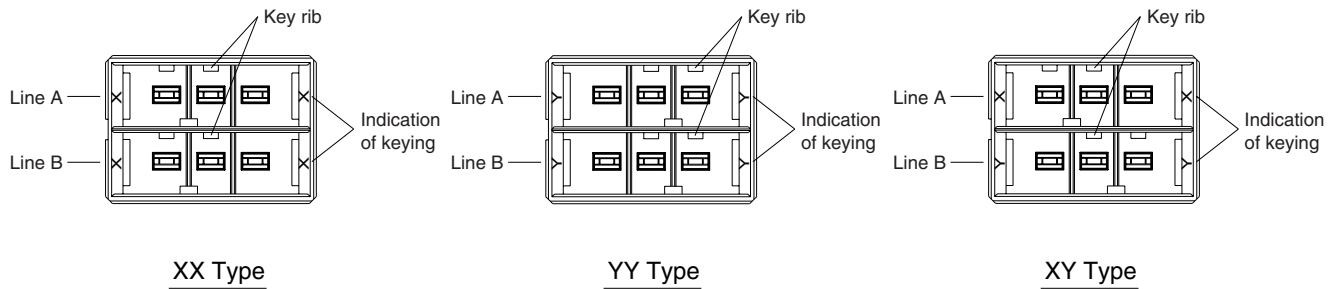
RoHS compliance This product displays (LF)(AU) on a label.

Note: 1. Contact JST for the headers supplied in magazine stick.

2. Contact JST for 0.76 μ m gold-plated product and tin-plated product.

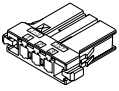

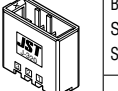
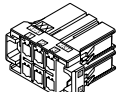
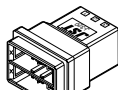

Keying

J320M series have mis-insertion preventive keying.
Available in 3 types – XX type, YY type and XY type.
(Headers viewed from the mating side are shown below.)



List of combinations

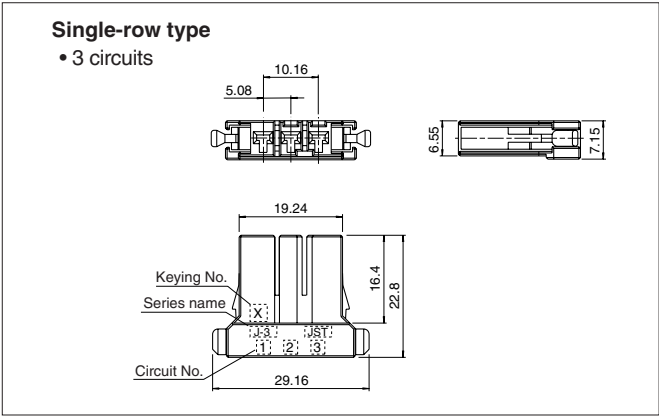
With the combination of the J320M headers and the J320M/J320S receptacle housings, the following modular combinations are possible.

Receptacle housing		Tab housing		Header	
Single-row 3, 5, 6 circuits (J320S) 	X type F32FSS-■V-KX	Single-row 3 circuits (J320S)  Free hanging type Panel mounting type	X type Free hanging type F32MSF-■V-KX Panel mounting type F32MSP-■V-KX	Single-row 3, 5, 6 circuits (J320S)  Top entry type Side entry type	X type Top entry type B■B-F32SK-GGX■ Side entry type S■B-F32SK-GGX■
	Y type F32FSS-■V-KY		Y type Free hanging type F32MSF-■V-KY Panel mounting type F32MSP-■V-KY		Y type Top entry type B■B-F32SK-GGY■ Side entry type S■B-F32SK-GGY■
Double-row 6, 10, 12, 20 circuits (J320M) 	XX type F32FMS-■V-KXX	Double-row 6, 12, 20 circuits (J320M)  Free hanging type Panel mounting type	XX type Free hanging type F32MDF-■V-KXX Panel mounting type F32MDP-■V-KXX	Double-row 6, 10, 12 circuits (J320M)  Top entry type Side entry type	XX type Top entry type B■B-F32MK-GGX■ Side entry type S■B-F32MK-GGX■
	YY type F32FMS-■V-KYY		YY type Free hanging type F32MDF-■V-KYY Panel mounting type F32MDP-■V-KYY		YY type Top entry type B■B-F32MK-GGY■ Side entry type S■B-F32MK-GGY■
	XY type F32FMS-■V-KXY		XY type Free hanging type F32MDF-■V-KXY Panel mounting type F32MDP-■V-KXY		XY type Top entry type B■B-F32MK-GGXY■ Side entry type S■B-F32MK-GGXY■

Note: Number of circuits is indicated in ■■.
Packaging method is indicated in ■.

J300 SERIES/J320T

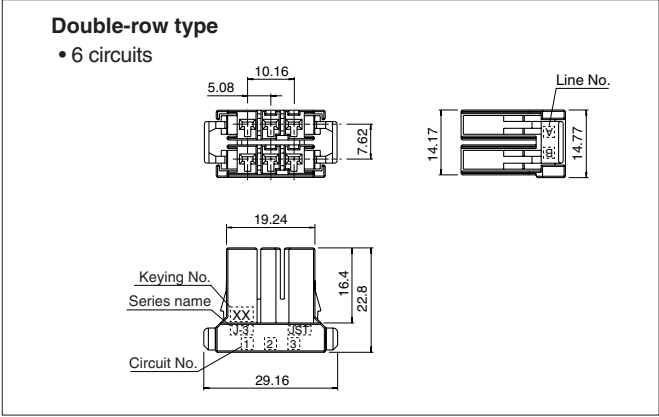
Receptacle housing



Circuits	Keying	Model No.	Q'ty / bag
3	X	F32FSS-03V-KX	200
	Y	F32FSS-03V-KY	200

Material			
Glass-filled PBT, UL94V-0, black			

RoHS compliance

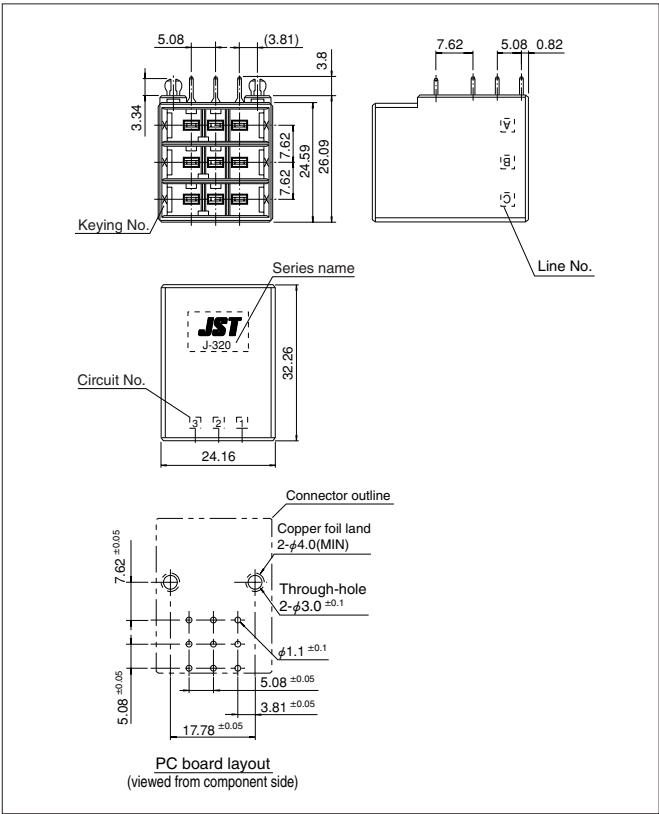


Circuits	Keying	Model No.	Q'ty / bag
6	XX	F32FMS-06V-KXX	100
	YY	F32FMS-06V-KYY	100
	XY	F32FMS-06V-KXY	100

Material			
Glass-filled PBT, UL94V-0, black			

RoHS compliance

Header (Side entry type)



Circuits	Keying	Model No.	Q'ty / box
9	XXX	S09B-F32TK-GGXAR	42
	XXY	S09B-F32TK-GGXBR	42
	XYX	S09B-F32TK-GGXCR	42
	YYX	S09B-F32TK-GGXDR	42

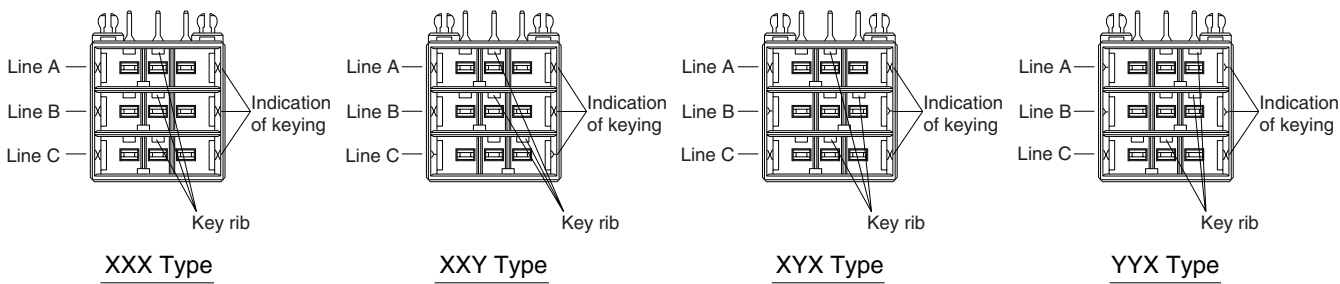
Material and Finish			
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Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance This product displays (LF)(AU) on a label.
Note: 1. Contact JST for tin-plated product.
2. Not CSA/TÜV approved

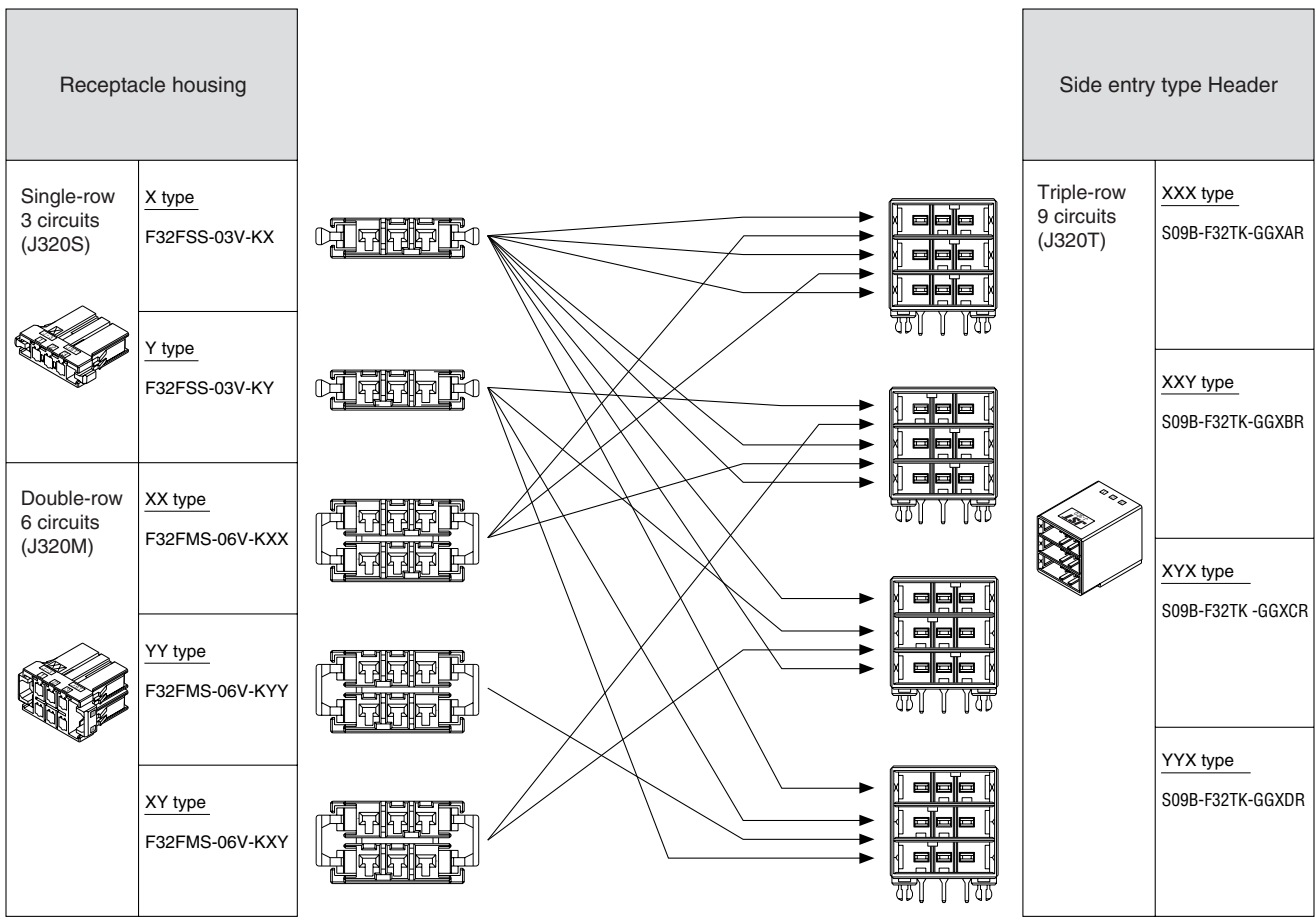
Keying

J320T series have mis-insertion preventive keying.
Available in 4 types – XXX type, XXY type, XYX type and YYX type.
(Headers viewed from the mating side are shown below.)



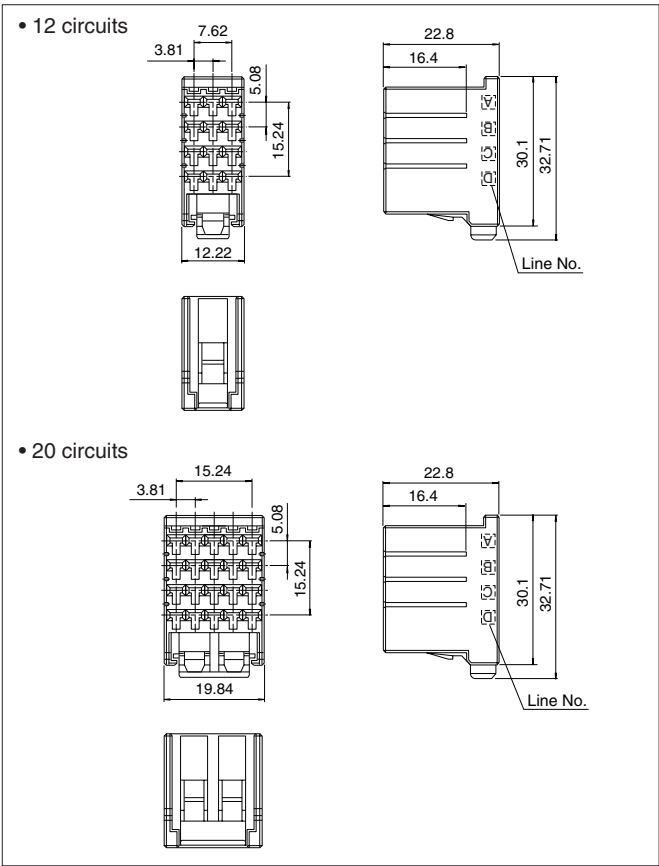
List of combinations

With the combination of the J320T headers and the J320S/J320M receptacle housings, the following modular combinations are possible.



J300 SERIES/J340F

Receptacle housing

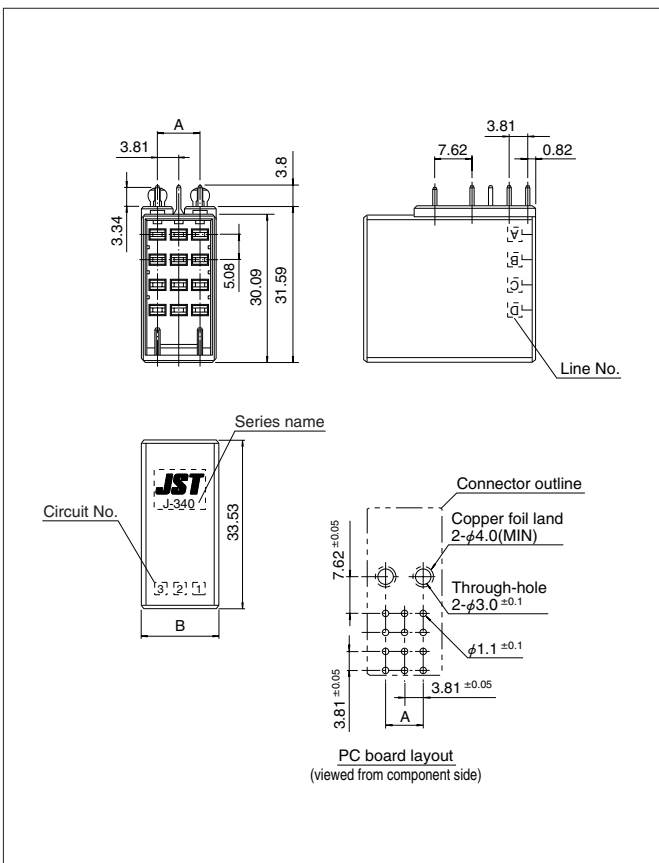


Circuits	Keying	Model No.	Q'ty / bag
12	—	F34FFC-12V-K	100
20	—	F34FFC-20V-K	100

Material			
Glass-filled PBT, UL94V-0, black			

RoHS compliance
Note: Not CSA/TÜV approved.

Header (Side entry type)

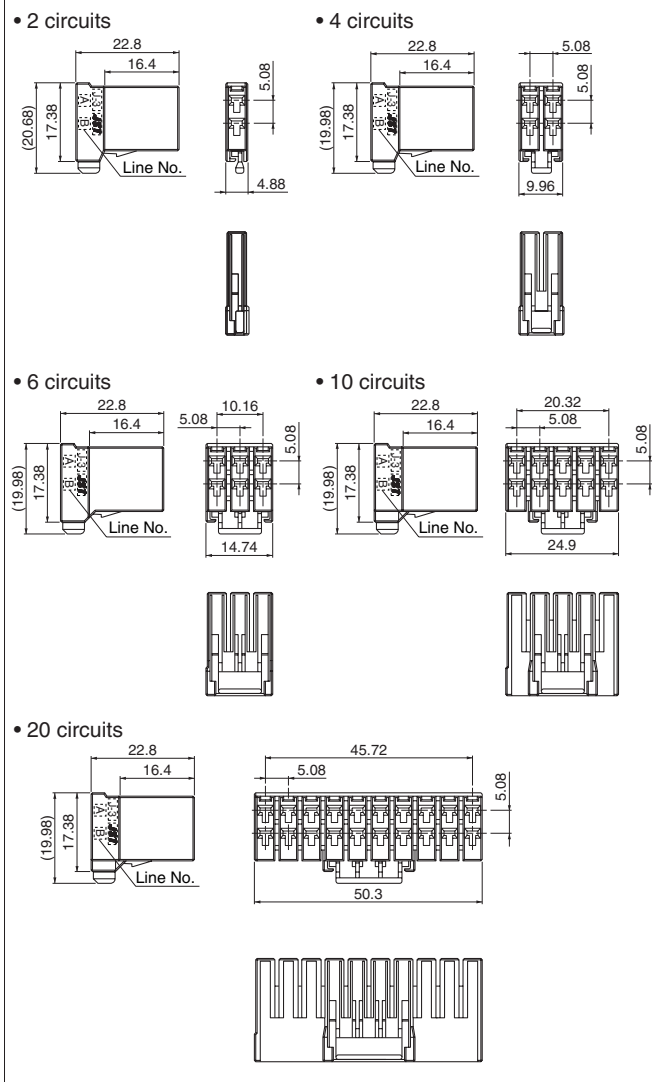


Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
12	—	SC12B-F34FK-GGR	7.62	15.02	63
20	—	SC20B-F34FK-GGR	15.24	22.64	42

Material and Finish					
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated					
Housing: Glass-filled PBT, UL94V-0, black					
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated					

RoHS compliance This product displays (LF)(AU) on a label.
Note: 1. Contact JST for tin-plated product.
2. Not CSA/TÜV approved.

Receptacle housing



Circuits	Keying	Model No.	Q'ty / bag
2	—	F35FDC-02V-K	200
4	—	F35FDC-04V-K	200
6	—	F35FDC-06V-K	200
10	—	F35FDC-10V-K	100
20	—	F35FDC-20V-K	100

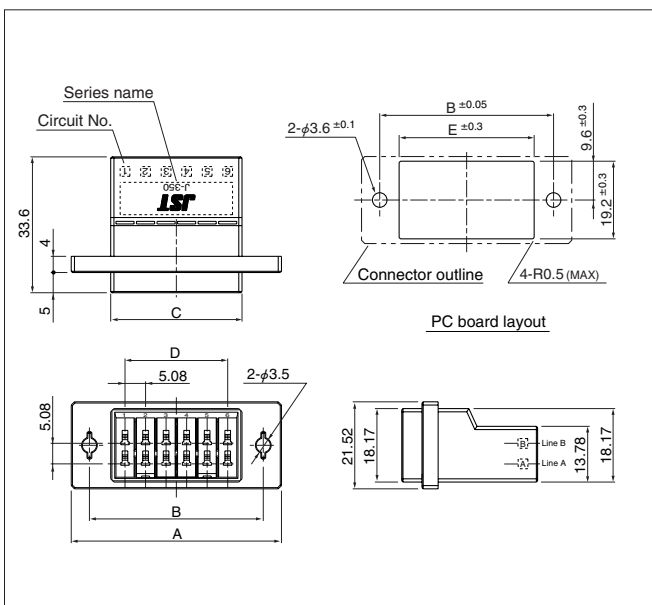
Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Note: Not CSA/TÜV approved.

Tab housing (Panel mounting type)



Circuits	Keying	Model No.	Dimensions (mm)					Q'ty / box
			A	B	C	D	E	
12	—	F35MDP-12V-K	52.00	43.00	32.48	25.40	33.40	41

Material

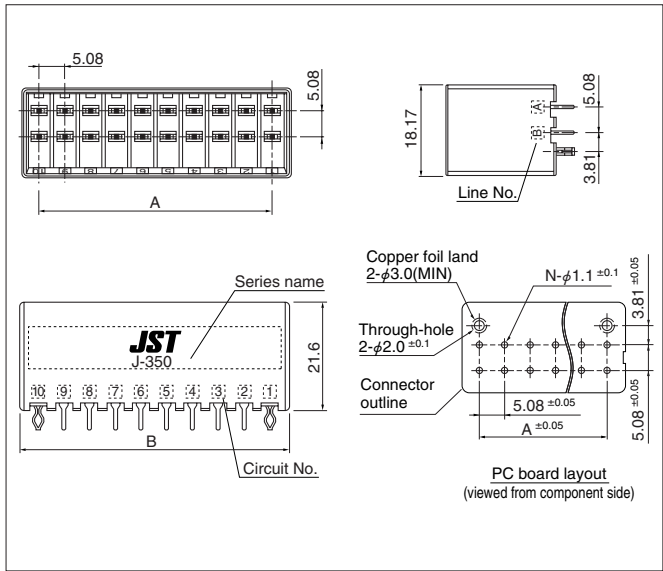
Glass-filled PBT, UL94V-0, black

RoHS compliance

Note: Not CSA/UL/TÜV approved.

J300 SERIES/J350D

Header (Top entry type)

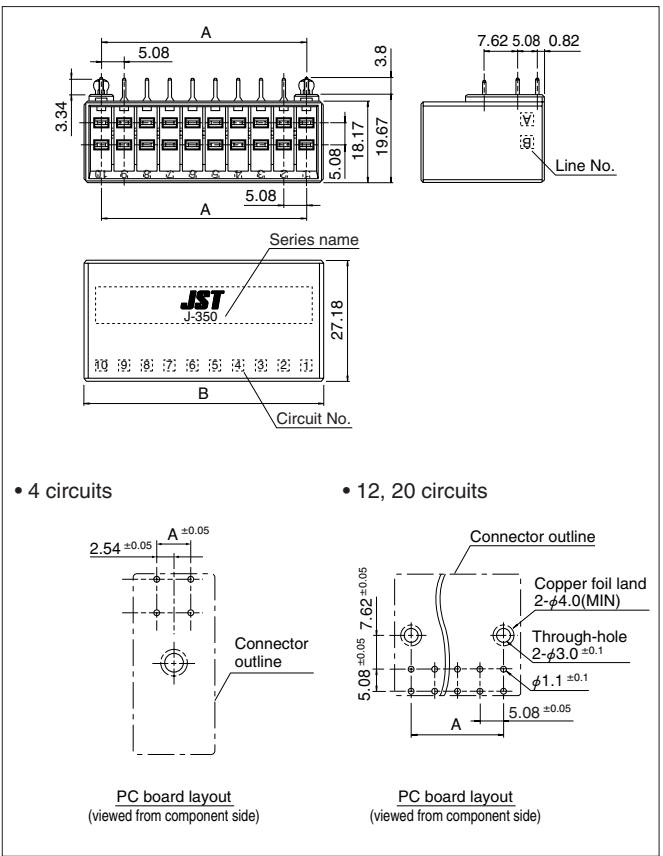


Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
12	—	BC12B-F35DK-GGR	25.4	32.48	56
20	—	BC20B-F35DK-GGR	45.72	52.8	32

Material and Finish					
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated					
Housing: Glass-filled PBT, UL94V-0, black					
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated					

RoHS compliance This product displays (LF)(AU) on a label.
Note: 1. Contact JST for tin-plated product.
2. Not CSA/TÜV approved.

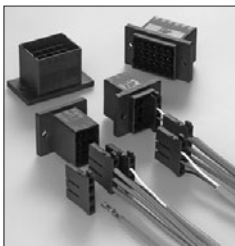
Header (Side entry type)



Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
4	—	SC04B-F35DK-GGR	5.08	12.16	152
12	—	SC12B-F35DK-GGR	25.4	32.48	56
20	—	SC20B-F35DK-GGR	45.72	52.8	32

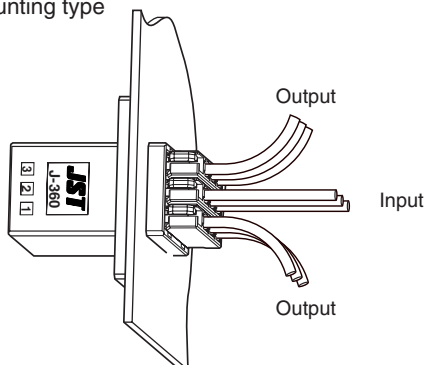
Material and Finish					
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated					
Housing: Glass-filled PBT, UL94V-0, black					
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated					

RoHS compliance This product displays (LF)(AU) on a label.
Note: 1. Contact JST for tin-plated product.
2. Not CSA/TÜV approved.

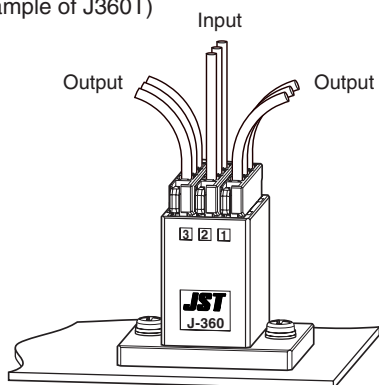


J300 SERIES/COMMON TYPE CONNECTOR

- Panel mounting type



- Direct mounting type
(Example of J360T)



- Receptacle terminal of JFA J300 series can be used.
- Between rows are commonly connected.
- Proposing rationalization of wiring.
- Mounting method of connector.

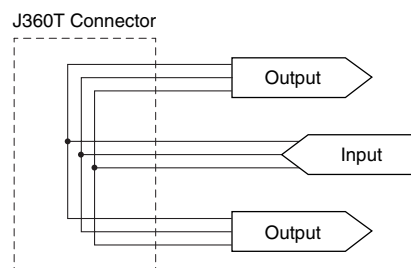
Specifications

- Current rating: 18A AC, DC (18 circuits/AWG #14)
- Voltage rating: 600V AC, DC
- Temperature range: -55°C to +105°C
(including temperature rise in applying electrical current)

*Contact JST for details.

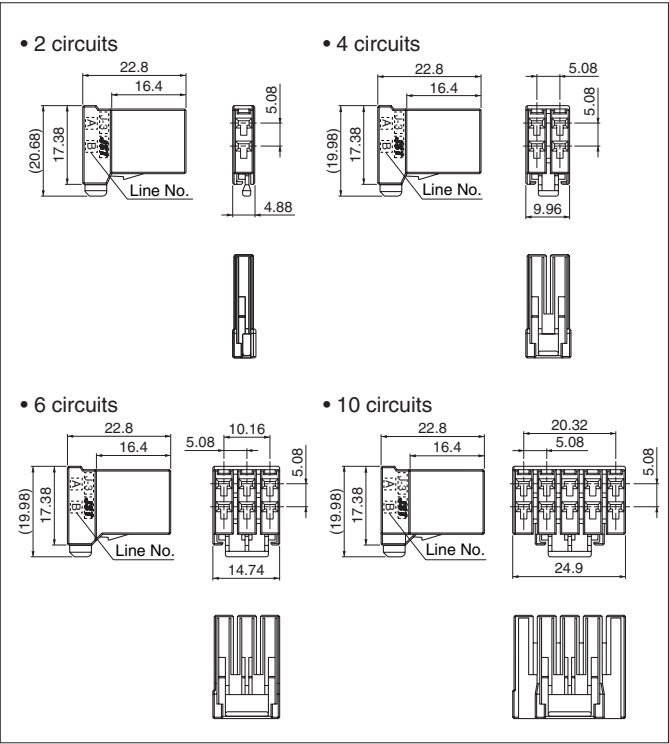
*Compliant with RoHS.

Circuit figure



COMMON TYPE/J350DC

Receptacle housing

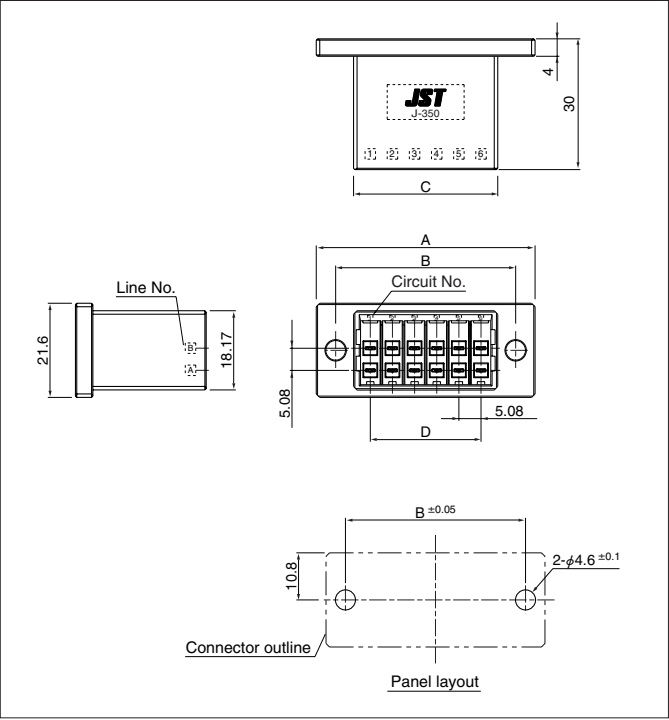


Circuits	Keying	Model No.	Q'ty / bag
2	—	F35FDC-02V-K	200
4	—	F35FDC-04V-K	200
6	—	F35FDC-06V-K	200
10	—	F35FDC-10V-K	100

Material
Glass-filled PBT, UL94V-0, black

RoHS compliance
Note: Not CSA/TÜV approved.

Tab housing assembly



Circuits	Keying	Model No.	Dimensions (mm)				Q'ty / box
			A	B	C	D	
12	—	P12B-F35DK-GFAR	57.0	44.6	33.08	25.4	196

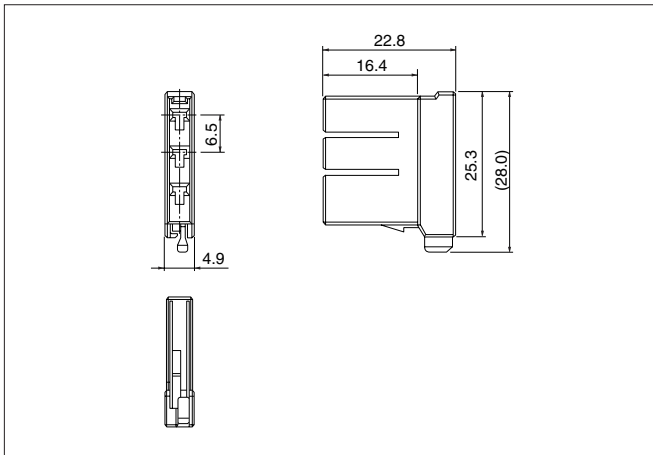
Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black

RoHS compliance
Note: 1. Tightening torque of M3 screw varies depending on screw and material to be tighten as follows.
Steel: 50cN • m max.
Copper, aluminum and plastics: 30cN • m (reference target value)
2. Not CSA/TÜV approved.

COMMON TYPE/J360T

Receptacle housing



Circuits	Keying	Model No.	Q'ty / bag
3	—	F36FTC-03V-K	200

Material

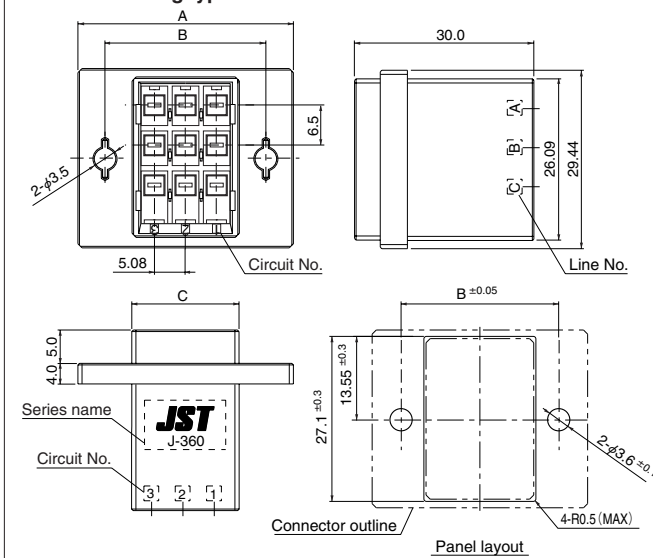
Glass-filled PBT, UL94V-0, black

RoHS compliance

Note: Not CSA/TÜV approved.

Tab housing assembly

• Panel mounting type



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
9	—	P09B-F36TK-GFR	35.0	26.1	17.8	364
18	—	P18B-F36TK-GFR	50.2	41.3	33.1	224

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black

RoHS compliance

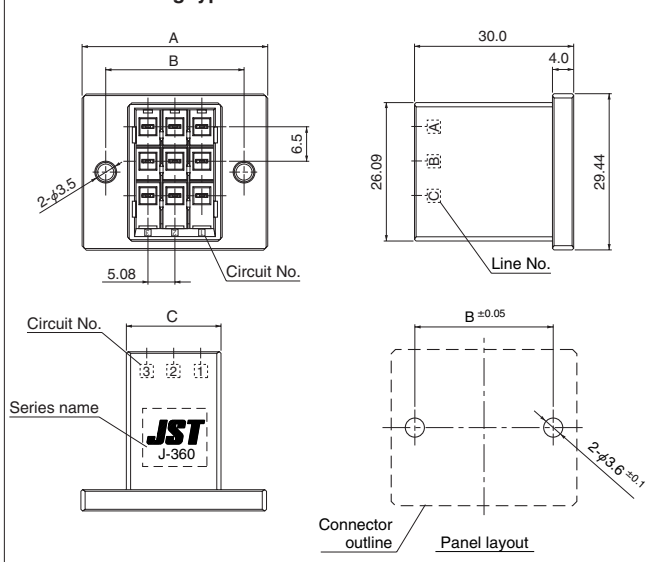
Note: 1. Tightening torque of M3 screw varies depending on screw and material to be tighten as follows.

Steel: 50cN • m max.

Copper, aluminum and plastics: 30cN • m (reference target value)

2. Not CSA/TÜV approved.

• Direct mounting type



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
9	—	P09B-F36TK-GFAR	35.0	26.1	17.8	364
18	—	P18B-F36TK-GFAR	50.2	41.3	33.1	224
24	—	P24B-F36TK-GFANR	60.4	51.5	43.2	168

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black

RoHS compliance

Note: 1. Tightening torque of M3 screw varies depending on screw and material to be tighten as follows.

Steel: 50cN • m max.

Copper, aluminum and plastics: 30cN • m (reference target value)

2. There is no cover of common tab side for 24 circuits.

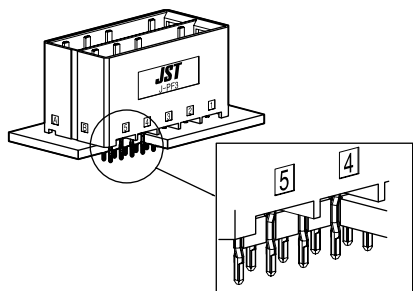
P24B-F36TK-GFANR

N means no cover.

3. The top and bottom for both the logo mark and the series name of 24 circuits reverse against display of 9 or 18 circuits.

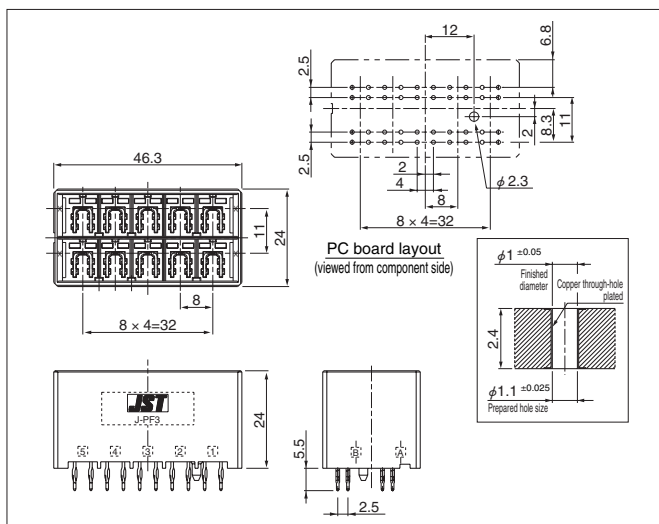
4. Not CSA/TÜV approved.

J300 SERIES/J-PF3 PRESS FIT TYPE



- Press fit contact is adopted.
- Easy PC board layout
- Use the receptacle contact of J300 series

Header Top entry type (Press fit type)



Circuits	Keying	Model No.	Q'ty / box
10	XX	B10B-JPF3MK-GKXXR	96
	YY	B10B-JPF3MK-GKYR	96
	XY	B10B-JPF3MK-GKXYR	96
	YX	B10B-JPF3MK-GKYXR	96

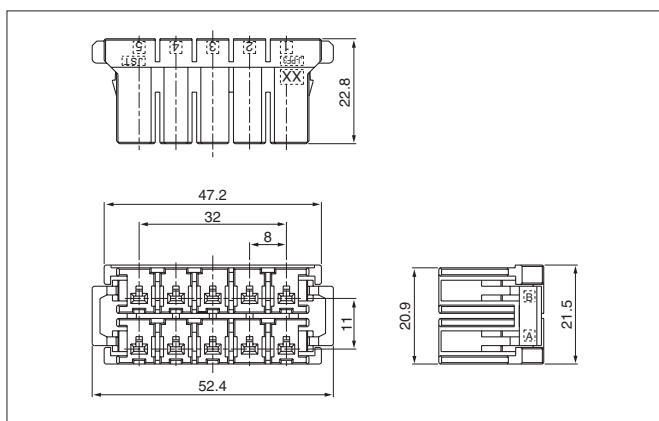
Material and Finish

Post: Copper alloy, gold-plated
Housing: Thermoplastic resin

RoHS compliance

Note: 1. Contact JST for jig for press fit.
2. Not CSA/UL/TÜV approved.

Receptacle housing



Circuits	Keying	Model No.	Q'ty / bag
10	XX	JPF3FMS-10V-KXX	400
	YY	JPF3FMS-10V-KYY	400
	XY	JPF3FMS-10V-KXY	400
	YX	JPF3FMS-10V-KYX	400

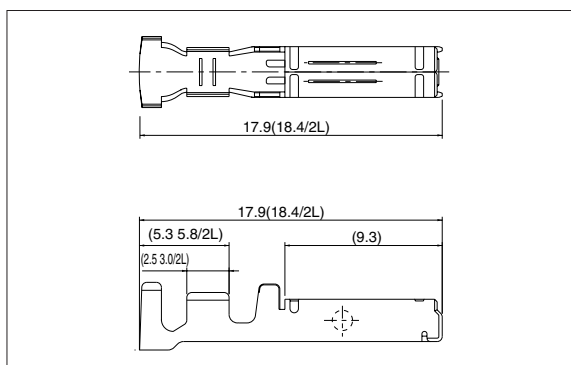
Material

Housing: Thermoplastic resin

RoHS compliance

Note: Not CSA/UL/TÜV approved.

Receptacle contact



Model No.		Applicable wire			Insulation O.D. (mm)	Q'ty	
Strip contact	Loose piece	Nominal	mm ²	AWG#		reel	Box(Loose piece)
SF3F-002GF-P2.0	BF3F-002GF-P2.0	S	0.08~0.20	28~24	0.8~1.4	3,700	1,000
SF3F-01GF-P2.0	BF3F-01GF-P2.0	M	0.20~0.50	24~20	1.2~2.6	3,700	1,000
SF3F-41GF-P2.0	LF3F-41GF-P2.0	L	0.50~1.25	20~16	1.8~2.8	3,200	1,000
*SF3F-71GF-P2.0	*BF3F-71GF-P2.0	2L	1.25~2.0	16~14	2.4~3.4	3,200	1,000

Material and Finish

Copper alloy (superior conductivity), nickel-undercoated, selective gold-plated
tin-plated (reflow treatment)

RoHS compliance

Note: *Marked products are not CSA/TÜV approved.

JFA CONNECTOR/J300 SERIES

Model number identification

Receptacle contact

S F3 F - 41 GF - P 2.0

Form: S...Strip form, B...Loose piece
L...Loose piece with curled barrels

Series name

Kind of terminal: F...Receptacle contact

Applicable wire: 002...AWG #28 ~ #24, 01...AWG #24 ~ #20
41...AWG #20 ~ #16, 71...AWG #16 ~ #14

Surface finish: GF...Nickel-undercoated, 0.38 μm selective gold-plated
GI...Nickel-undercoated, 0.76 μm selective gold-plated
T...Tin-plated (Reflow treatment)

Material: P...Copper alloy

Terminal size

Tab contact

S F3 M - 41 GF - M 2.0 N

Form: S...Strip form, B...Loose piece
L...Loose piece with curled barrels

Series name

Kind of terminal: M...Tab contact

Applicable wire: 01...AWG #24 ~ #20, 41...AWG #20 ~ #16
71...AWG #16 ~ #14

Surface finish: GF...Nickel-undercoated, 0.38 μm selective gold-plated
GI...Nickel-undercoated, 0.76 μm selective gold-plated
T...Tin-plated (Reflow treatment)

Material: M...Copper alloy

Terminal size

Sequential identification

Receptacle housing

F31 F S S - 03 V - K X

Series name

Type of connector: F...Receptacle housing

Rows: S...Single-row
D...Double-row with 5.08mm line pitch
M...Double-row with 7.62mm line pitch
F...Quadruple-row with 5.08mm line pitch

Configuration: S...Side locking, C...Center locking

No. of circuits: 1 ~ 6, 8, 10, 12, 16, 20

Flammability: V...UL94V-0

Color indication: K...Black, S...White, E...Blue

Keying: X...X-Keying, Y...Y-Keying, XX...XX-Keying
YY...YY-Keying, XY...XY-Keying, Blank...Without Keying No.

Tab housing

F31 M S F - 03 V - K X

Series name

Kind of terminal: M...Tab housing

Rows: S...Single-row, D...Double-row with 5.08mm line pitch
M...Double-row with 7.62mm line pitch

Configuration: F...Free hanging, P...Panel mounting

No. of circuits: 1 ~ 6, 8, 10, 12, 16, 20

Flammability: V...UL94V-0

Color indication: K...Black, S...White, E...Blue

Keying: X...X-Keying, Y...Y-Keying, XX...XX-Keying
YY...YY-Keying, XY...XY-Keying, Blank...Without Keying No.

Header

B 05 B - F31 S K - GG X R

PC board mounting direction:
B...Top entry type
S...Side entry type
BC...Top & center locking
SC...Side & center locking

No. of circuits: 2 ~ 6, 8, 10, 12, 16, 20

Product name: Header

Series name

Rows: S...Single-row
D...Double-row with 5.08mm line pitch
M...Double-row with 7.62mm line pitch
T...Triple-row with 7.62mm line pitch
F...Quadruple-row with 5.08mm line pitch

Color indication: K...Black, S...White, E...Blue

Surface finish: GG...Nickel-undercoated, 0.38 μm selective gold-plated
GK...Nickel-undercoated, 0.76 μm selective gold-plated
T...Tin-plated (Reflow treatment)

Keying: X...X-Keying, Y...Y-Keying, XX...XX-Keying, YY...YY-Keying,
XY...XY-Keying, XA...XXX-Keying, XB...XXY-Keying,
XC...XYX-Keying, XD...YYX-Keying, Blank...Without Keying No.

Packaging form: R...Tray, M...Magazine stick

Receptacle assembly

03 JFAT - SA Y GF - I

No. of circuits: 3 ~ 6

Series name

Mating type: SA...Normal type, SB...Reverse type

Keying: X...X-Keying, Y...Y-Keying

Surface finish: GF...Nickel-undercoated, 0.38 μm selective gold-plated

Shape: I ... I type

Tab housing assembly

P 18B-F36T K - GF A R

PC board mounting direction: Panel mounting type

No. of circuits - Assembly: 9, 12, 18, 24

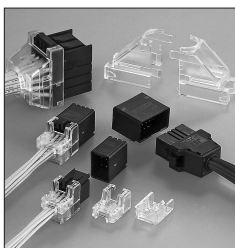
Series name: F36T...J360T, F35D...J350DC

Color indication: K...Black

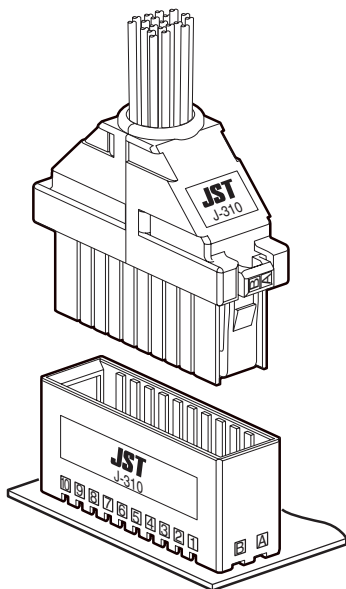
Surface finish: GF...Nickel-undercoated, 0.38 μm selective gold-plated

Configuration: A...Direct mounting type, AF...Direct mounting without housing cover type,
Blank...Panel mounting type

Packaging form: R...Tray



JFA CONNECTOR/PROTECTOR

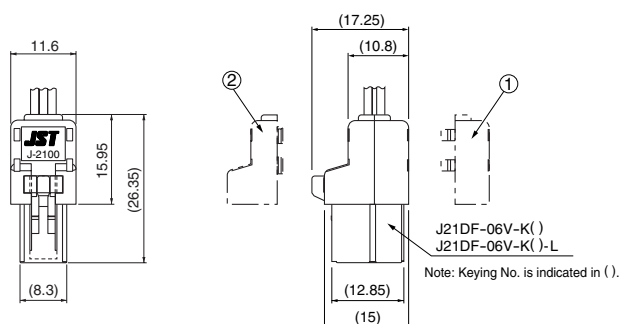


Note: Protector is not UL/CSA/TÜV approved

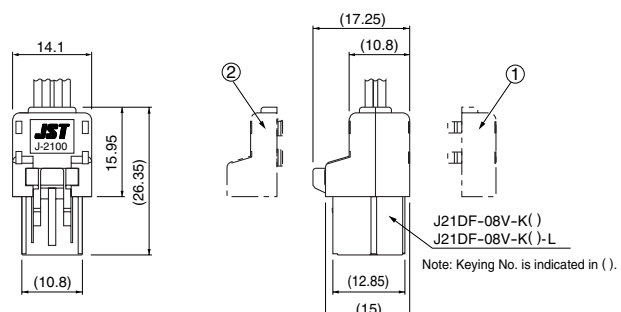
When applying a current to the connector, the protector prevents foreign substances being inserted into mating part from the wiring side. However it has no function of holding the wire securely.

J2000 Series

•J2100 series for 6 circuits



•J2100 series for 8 circuits



No.	Model No.	Color
①	J21PF-06SCA	Transparent
②	J21PF-06SCB	Transparent
Material		
Polycarbonate		

RoHS compliance

No.	Model No.	Color
①	J21PF-08SCA	Transparent
②	J21PF-08SCB	Transparent
Material		
Polycarbonate		

RoHS compliance

JFA CONNECTOR/PROTECTOR

J2000 Series

•J2100 series for 10 circuits

No.	Model No.	Color
①	J21PF-10SCA	Transparent
②	J21PF-10SCB	Transparent
Material		
Polycarbonate		

RoHS compliance

•J2100 series for 16 circuits

No.	Model No.	Color
①	J21PF-16SCA	Transparent
②	J21PF-16SCB	Transparent
Material		
Polycarbonate		

RoHS compliance

•J2100 series for 20 circuits

No.	Model No.	Color
①	J21PF-20SCA	Transparent
②	J21PF-20SCB	Transparent
Material		
Polycarbonate		

RoHS compliance

•J2200 series for 10 circuits

No.	Model No.	Color
①	J22PF-10VK	Black
Material		
Glass-filled PBT		

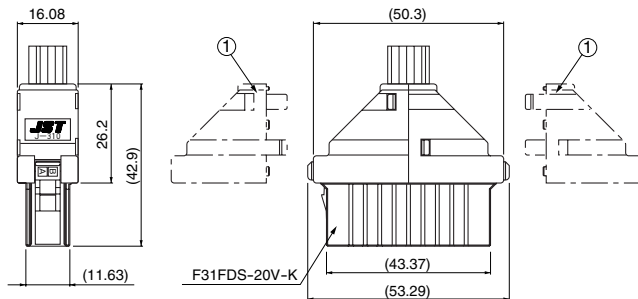
RoHS compliance

Note: Two protectors are used.

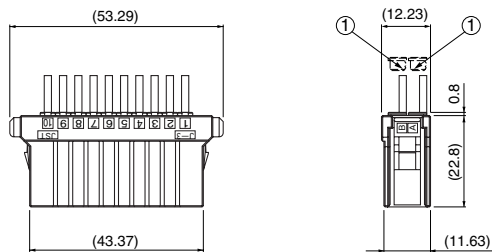
JFA CONNECTOR/PROTECTOR

J300 Series

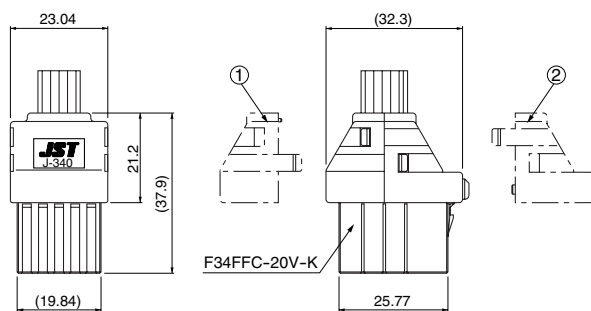
•J310D series for 20 circuits



•J310D series / Embedding-type protector for 8, 10 circuits



•J340F series for 20 circuits



No.	Model No.	Color
①	F31PFD-20VK	Black
①	F31PFD-20SC	Transparent

Material

Black: Glass-filled PBT
Transparent: Polycarbonate

RoHS compliance

Note: Two protectors of the same color are used.

No.	Model No.	Color
①	F31PFS-10KU	Black

Material

Glass-filled PBT

RoHS compliance

Note: This protector is cut and used for each number of circuits.

No.	Model No.	Color
①	F34PFF-20VKA	Black
	F34PFF-20SCA	Transparent
②	F34PFF-20VKB	Black
	F34PFF-20SCB	Transparent

Material

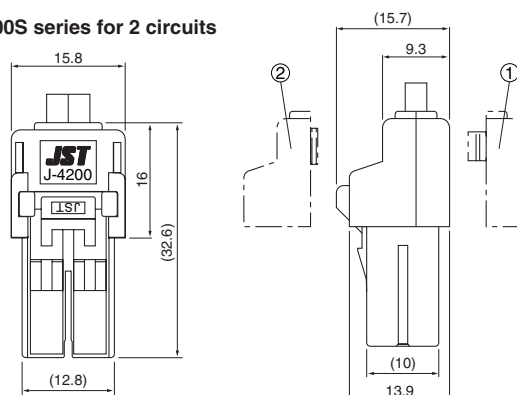
Black: Glass-filled PBT
Transparent: Polycarbonate

RoHS compliance

Note: Both 1 and 2 protectors in the same color are used.

J4000 Series

•J4200S series for 2 circuits



No.	Model No.	Color
①	J42PF-02SCA	Transparent
②	J42PF-02SCB	Transparent

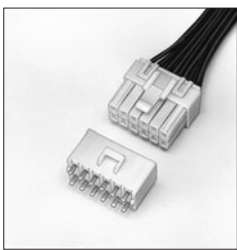
Material

Polycarbonate

RoHS compliance

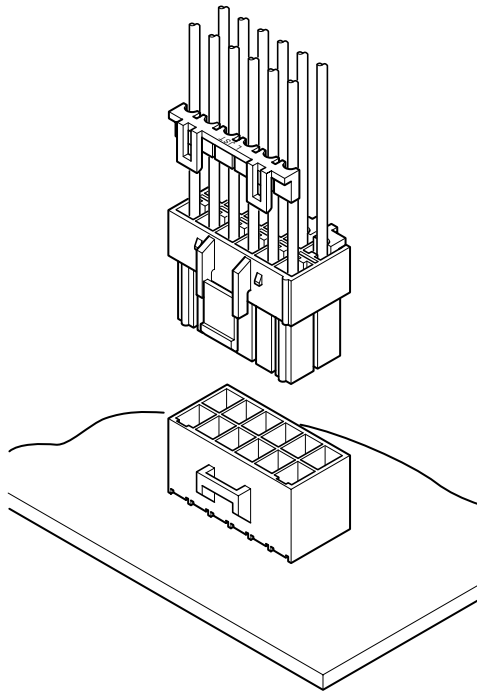
(Patent pending)

When applying a current to the connector, the protector prevents foreign substances being inserted into mating part from the wiring side. However it has no function of holding the wire securely.



HL CONNECTOR

3.96mm pitch Disconnectable Crimp style connectors



- **Housing lances for contact retention**
- **Inner-housing lock**
- **Secondary retainer**
- **Low insertion force contact**

Specifications

- Current rating: 7A AC, DC (Refer to the table below.)
- Voltage rating: 300V AC, DC
- Temperature range: -25°C to +90°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/7m Ω max.
After environmental testing/10m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #22 to #18
- Applicable PC board thickness: 1.5 to 2.2mm

Note:

The current rating differs depending on the number of circuits and the wire size used in each connector. The table below lists the current rating as a function of the number of circuits and the wire size.

Current unit:A

Circuits	Wire size(AWG)		
	#18	#20	#22
4□	7□	5□	4□
8□	6□	4□	3□
12	5	3	3

Note:

Do not branch in parallel current which exceeds the rated current (eg. more than 7A in the case of 4 circuits with AWG #18). If branched in parallel, current imbalance or other problems may develop.

- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

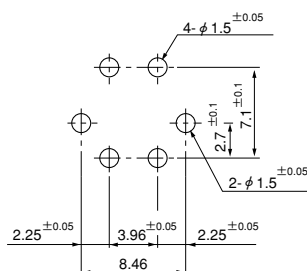
Recognized E60389

Certified LR20812

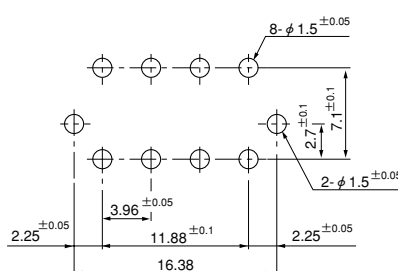
R9551072

PC board layout (viewed from component side)

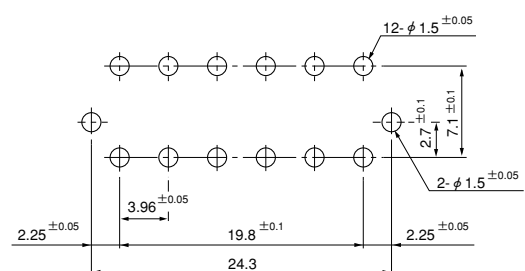
(4 circuits)



(8 circuits)



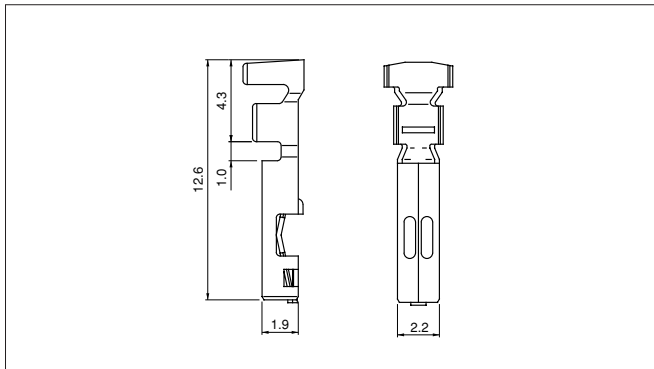
(12 circuits)



Note: 1. Tolerances are non-cumulative: ± 0.05 mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SSF-21T-P1.4	0.3~0.75	22~18	1.5~2.2	6,000

Material and Finish

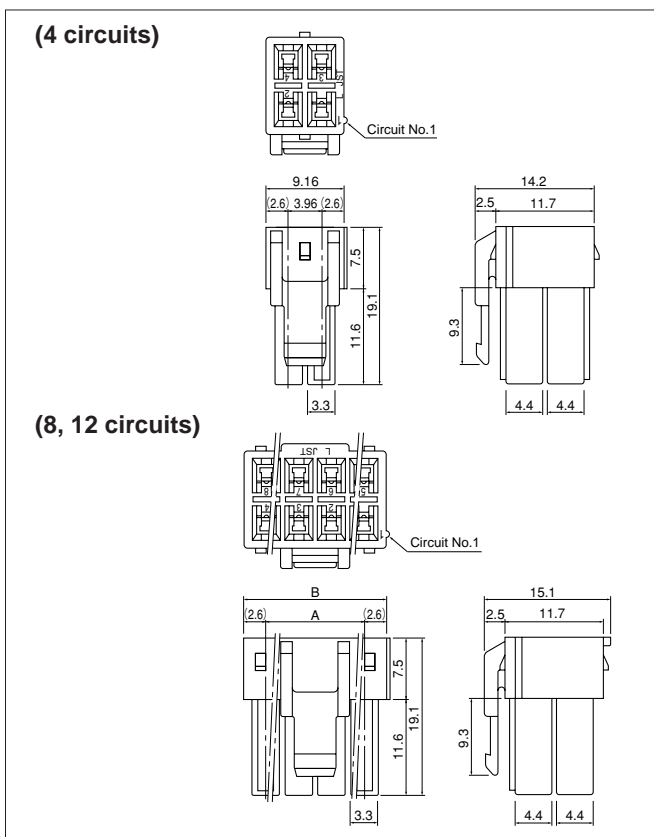
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SSF-21T-P1.4	AP-K2N	MKS-L	MK/SSF/M-21-14	APLMK SSF/M21-14
		*MKS-SC	SC/SSF/M-21-14	APLSC SSF/M21-14

Note: *Strip-crimp applicator

Housing



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
4	HLP-04V	—	—	500
8	HLP-08V	11.88	17.08	500
12	HLP-12V	19.8	25.0	500

Material

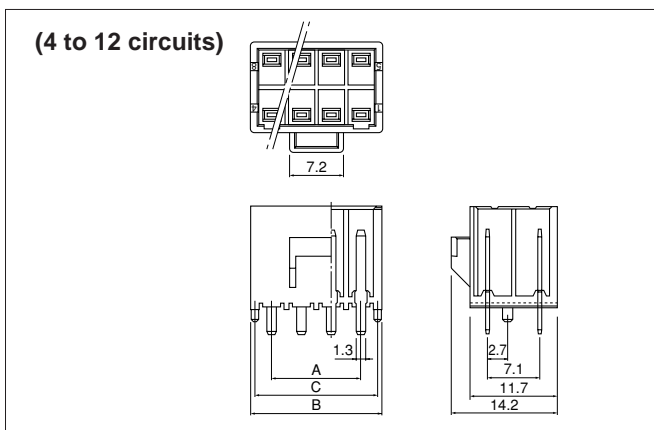
PA 66, UL94V-0, natural (white)

RoHS compliance

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **HLP-04V-oo**
(blank)...natural (white)
E...blue

Locking header



Circuits	Model No.	Dimensions (mm)			Q'ty / box
		A	B	C	
4	B04P-HL-A	3.96	9.56	8.46	200
8	B08P-HL-A	11.88	17.48	16.38	100
12	B12P-HL-A	19.80	25.40	24.30	50

Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, natural (white)

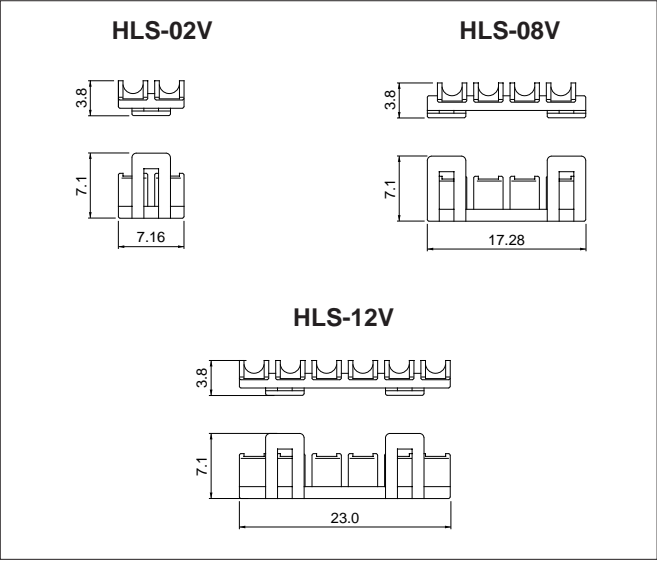
RoHS compliance This product displays (LF)(SN) on a label.

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **B04P-HL-A-oo**
(blank)...natural (white)
E...blue

HL CONNECTOR

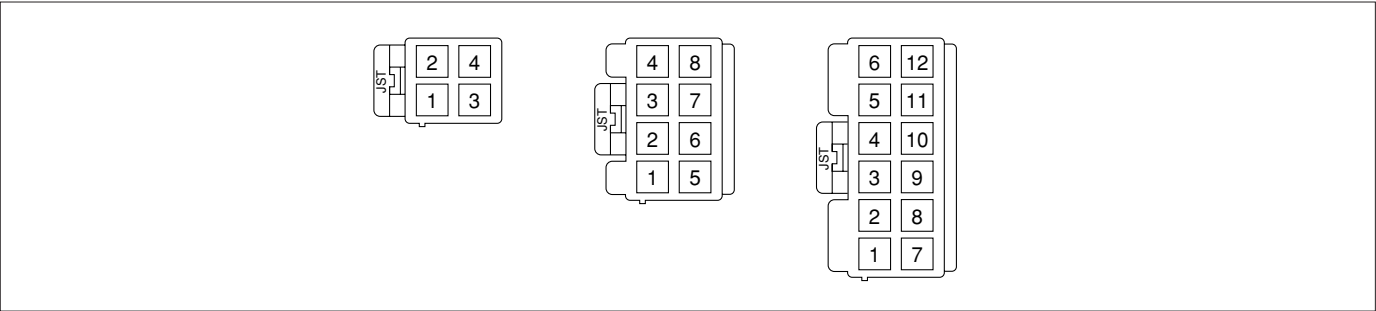
Retainer

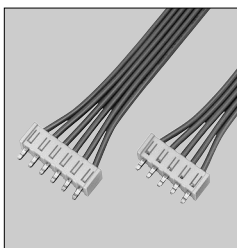


Applicable Housing Model No.	Retainer Model No.	Q'ty / bag
HLP-04V	HLS-02V	1,000
HLP-08V	HLS-08V	1,000
HLP-12V	HLS-12V	1,000
Material		
Glass-filled PA 66, UL94V-0, natural (ivory)		

RoHS compliance

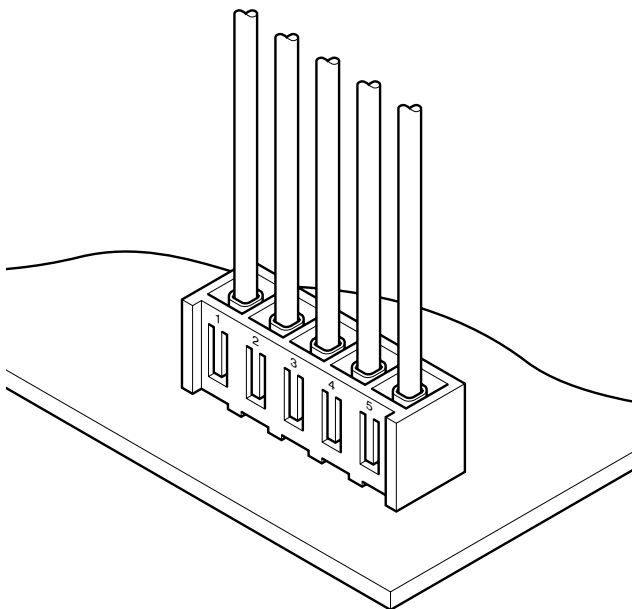
Contact position location numbers





SDN CONNECTOR

3.96mm pitch/Board-in Crimp style connectors



The SDN connector is a 3.96mm pitch board-in crimp style connector capable of connecting a wide variety of circuits including signal and power supply circuits. The connector features a slim, low-profile design. In addition, it has an exclusive lance construction to reduce insertion force, thus substantially improving the working efficiency in mounting the contact.

- Slim, low-profile design
- Easy and secure contact mounting
- Improved solderability
- Polarizing boss

Specifications

- Current rating: 7A AC, DC (AWG #18)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #22 to #18
- Applicable PC board thickness: 1.6mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

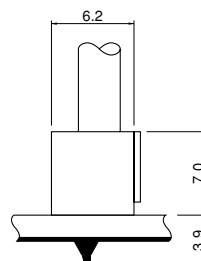
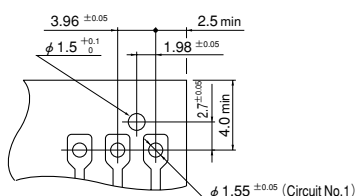
Standards

Recognized E60389

Certified LR20812

R50100763

PC board layout (viewed from soldering side) and Assembly layout

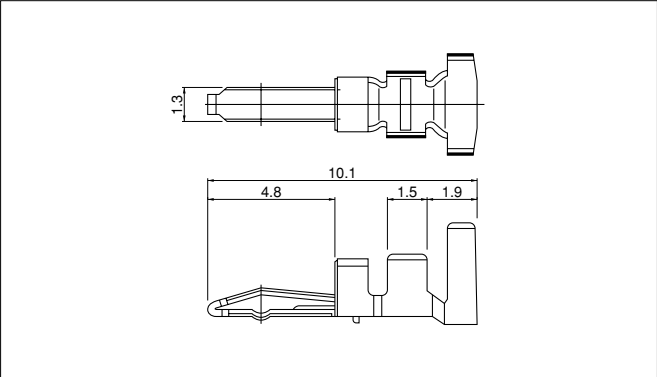


Note: 1. Tolerances are non-cumulative: ± 0.05 mm for all centers. For connectors with 5 or more circuits the hole dimensions will differ from the above values. Contact JST for details.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline.

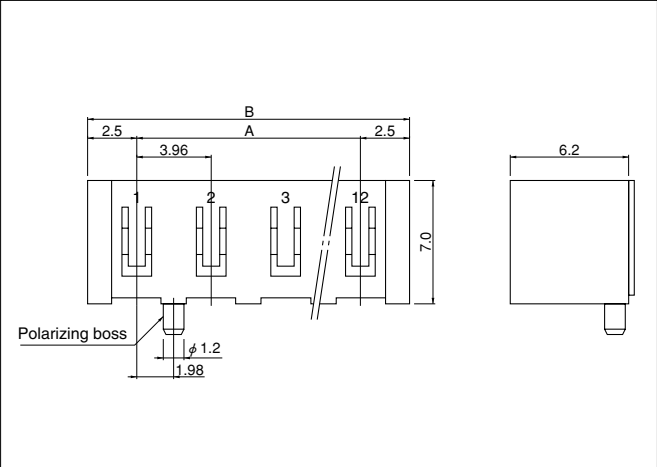
SDN CONNECTOR

Contact

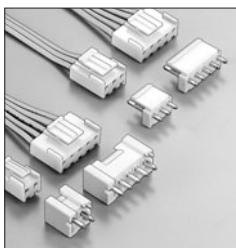


Model No.	Applicable wire		Insulation O.D.(mm)	Q'ty / reel
	mm²	AWG #		
SDN-21T-P1.5	0.33~0.83	22~18	1.6~3.0	5,000
Material and Finish				
Phosphor bronze, tin-plated (reflow treatment)				
RoHS compliance				
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SDN-21T-P1.5	AP-K2N	MKS-L	MK/SDN-21-15	APLMK SDN21-15
		—	—	—

Housing

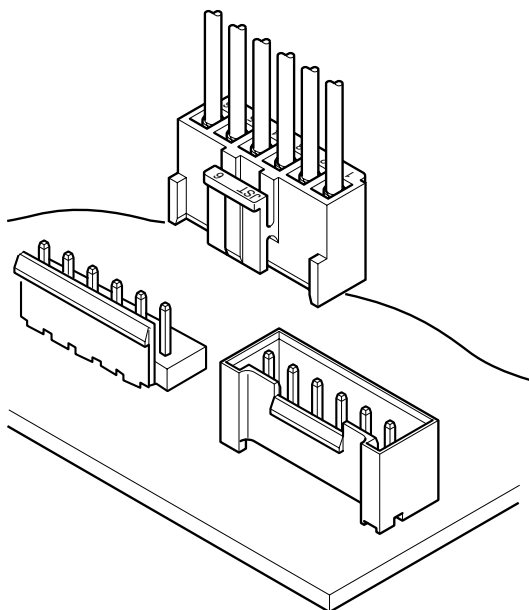


Circuits	Model No.		Dimensions (mm)		Q'ty / bag
	With polarizing boss	Without polarizing boss	A	B	
2	2P-SDN	2P-SDN-A	3.96	8.96	1,000
3	3P-SDN	3P-SDN-A	7.92	12.92	1,000
4	4P-SDN	4P-SDN-A	11.88	16.88	1,000
5	5P-SDN	5P-SDN-A	15.84	20.84	1,000
6	6P-SDN	6P-SDN-A	19.80	24.80	500
7	7P-SDN	7P-SDN-A	23.76	28.76	500
8	8P-SDN	8P-SDN-A	27.72	32.72	500
9	9P-SDN	9P-SDN-A	31.68	36.68	500
10	10P-SDN	10P-SDN-A	35.64	40.64	500
11	11P-SDN	11P-SDN-A	39.60	44.60	500
12	12P-SDN	12P-SDN-A	43.56	48.56	500
Material					
PA 66, UL94V-0, natural (white)					
RoHS compliance					



VH CONNECTOR

3.96mm pitch/Disconnectable Crimp style connectors



This small, field-proven connector for printed circuit boards is reliable and has a large current carrying capacity. It can be used with a wide variety of signal, power supply, and output circuits that appear in consumer electronic products.

- **Proven box contact**
- **Compact connector with a large capacity**
- **Secure contact and mounting**

Specifications

- Current rating: 10 A AC, DC (AWG #16)
- Voltage rating: 250 V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 10 mΩ max.
After environmental tests/ 20 mΩ max.
- Insulation resistance: 1,000 MΩ min.
- Withstanding voltage: 1,500 VAC/minute
- Applicable wire: AWG #22 to #16
- Applicable PC board thickness: 1.6 mm

Note:

Do not branch in parallel current which exceeds the rated current. If branched in parallel, current imbalance or other problems may develop. If it is absolutely necessary to branch such a large current in parallel, be sure to use contacts made of phosphor bronze. Design the circuits without causing imbalance and provide an extra margin for each circuit.

- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Compliant with RoHS.

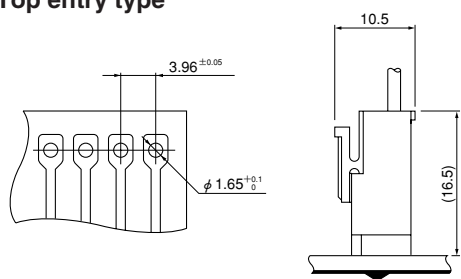
Standards

Recognized E60389

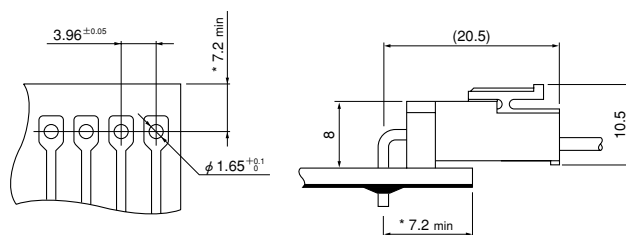
Certified LR20812

R75122

Locking header Top entry type

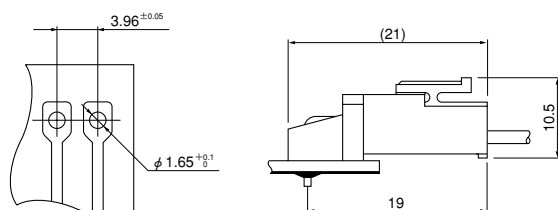


Locking header Side entry type

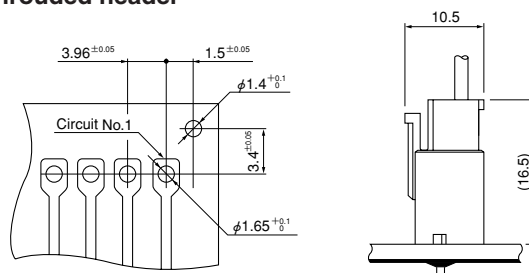


*11.0 max. when used with the VR connector receptacle.

Locking header Side entry type with PCB stabilizer



Shrouded header



Note: 1. The above figure is the figure viewed from soldering side.

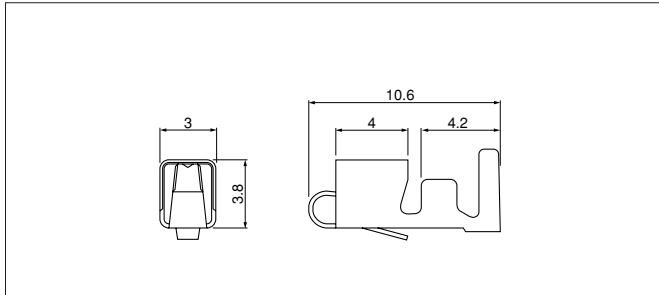
2. Tolerances are non-cumulative: ±0.05mm for all centers.

3. Please consider the pattern layout design in case of applying the large current.

4. Hole dimensions differ according to the type of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

VH CONNECTOR

Contact



Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SVH-21T-P1.1	AP-K2N	MKS-L	MK/SVH-21-11	APLMK SVH21-11
		*MKS-SC	SC/SVH-21-11	APLSC SVH21-11

Note: *Strip-crimp applicator

Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SVH-21T-P1.1	0.33~0.83	22~18	1.7~3.0	4,500
SVH-41T-P1.1	0.5 ~1.25	20~16	1.7~3.0	3,500

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

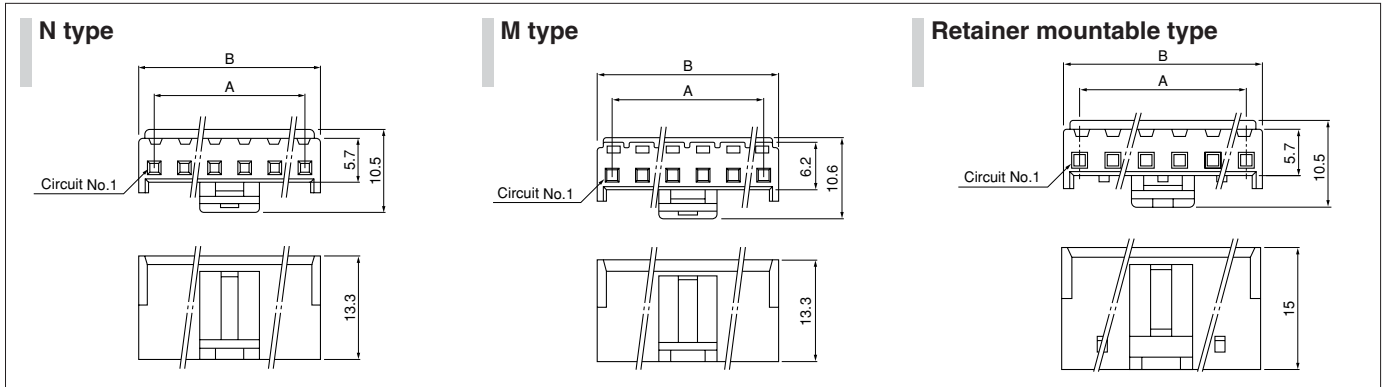
RoHS compliance

Note: 1. Contact JST for brass products.

2. When using retainer mountable type housing, applicable wire's insulation O. D. shall be 1.7 to 2.2mm.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SVH-41T-P1.1	AP-K2N	MKS-L	MK/SVH-41-11	APLMK SVH41-11
		—	—	—

Housing



Circuits	Model No.			Dimensions (mm)		Q'ty / bag
	N type	M type	Retaine mountable type	A	B	
2	VHR-2N	VHR-2M	VHRR-2N	3.96	7.86	1,000
3	VHR-3N	VHR-3M	VHRR-3N	7.92	11.82	(*)
4	VHR-4N	VHR-4M	—	11.88	15.78	1,000
5	VHR-5N	VHR-5M	VHRR-5N	15.84	19.74	(*)
6	VHR-6N	VHR-6M	—	19.80	23.70	500
7	VHR-7N	VHR-7M	VHRR-7N	23.76	27.66	500
8	VHR-8N	—	VHRR-8N	27.72	31.62	500
9	VHR-9N	VHR-9M	VHRR-9N	31.68	35.58	500
10	VHR-10N	—	—	35.64	39.54	500
11	VHR-11N	—	—	39.60	43.50	500

Material

PA 6, UL94V-0, natural (white)

Note: 1. Models identified as VHR-() M incorporate measures to prevent electric shock and are thus safer in regard to high voltages.
2. The applicable housing for 2 circuits shrouded header is "VHR-2N" only. "VHRR-2N" is not applicable.

(*) N / M type ; 1,000

Retainer mountable type ; 500

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **VHR-2N-oo**

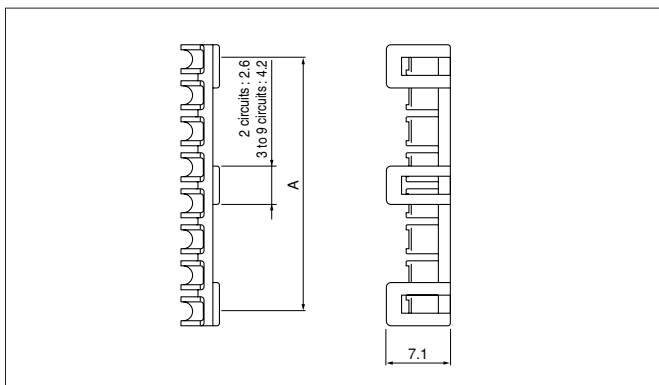
(blank)...natural (white)

BK...black R...red BL...blue M...green D...orange Y...yellow

PK...pink H...gray

RoHS compliance

Retainer



Circuits	Model No.	A	Q'ty / bag
2	VHS-2V	3.70	1,000
3	VHS-3V	7.52	1,000
5	VHS-5V	15.44	1,000
7	VHS-7V	23.36	1,000
8	VHS-8V	27.32	1,000
9	VHS-9V	31.28	1,000

Material

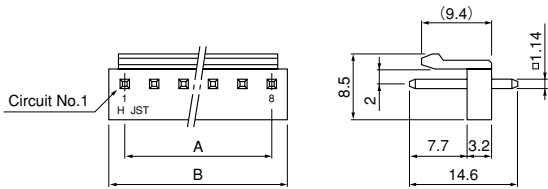
Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance

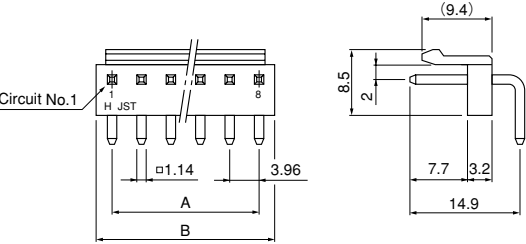
VH CONNECTOR

Locking header

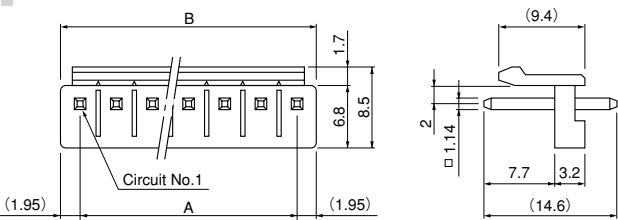
Top entry type



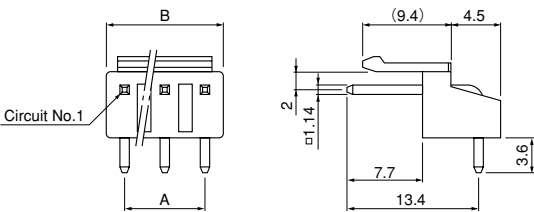
Side entry type



Top entry type of PBT



Side entry type with PCB stabilizer



Circuits	Model No.		Dimensions (mm)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
2	B2P-VH	B2PS-VH	3.96	7.86	1,000	1,000
3	B3P-VH	B3PS-VH	7.92	11.82	1,000	500
4	B4P-VH	B4PS-VH	11.88	15.78	500	500
5	B5P-VH	B5PS-VH	15.84	19.74	500	250
6	B6P-VH	B6PS-VH	19.80	23.70	250	250
7	B7P-VH	B7PS-VH	23.76	27.66	250	250
8	B8P-VH	B8PS-VH	27.72	31.62	200	200
9	B9P-VH	B9PS-VH	31.68	35.58	200	200
10	B10P-VH	B10PS-VH	35.64	39.54	200	100

Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66 UL94V-0, natural (white)

RoHS compliance This product displays (LF)(SN) on a label.
Note: Headers with a reduced number of posts are also available.
Contact JST for details.
<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **B2P(S)-VH-oo**
(blank)...natural (white)
BK...black R...red TR...tomato red BL...blue M...green
O...orange Y...yellow PK...pink H...gray

Circuits	Model No.		Dimensions (mm)		Q'ty / box	
	Top entry type of PBT	Side entry type with PCB stabilizer	A	B	Top entry type	Side entry type
2	B2P-VH-B	S2P-VH	3.96	7.86	1,000	1,000
3	B3P-VH-B	S3P-VH	7.92	11.82	1,000	500
4	B4P-VH-B	S4P-VH	11.88	15.78	500	500
5	B5P-VH-B	S5P-VH	15.84	19.74	500	250
6	B6P-VH-B	S6P-VH	19.80	23.70	250	250
7	B7P-VH-B	S7P-VH	23.76	27.66	250	250
8	B8P-VH-B	—	27.72	31.62	200	—
9	B9P-VH-B	—	31.68	35.58	200	—
10	B10P-VH-B	—	35.64	39.54	200	—
11	B11P-VH-B	—	39.60	43.50	200	—

Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: Top entry type of PBT: Glass-filled PBT; UL94V-0, natural (white)
Side entry type with PCB stabilizer: PA 66, UL94V-0, natural (white)

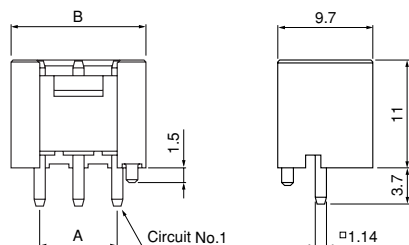
RoHS compliance This product displays (LF)(SN) on a label.
<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.
<Top entry type of PBT>

ex. **B2P-VH-B-oo**
(blank)...natural (white)
C...black R...red E...blue M...green Y...yellow

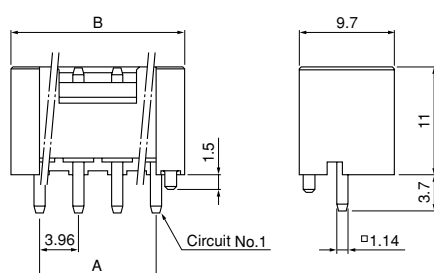
<Side entry type with PCB stabilizer>
ex. **S2P-VH-oo**
(blank)...natural (white)
BK...black R...red BL...blue M...green Y...yellow

Shrouded header

(2 , 3 circuits)



(4 to 10 circuits)



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	B2P-VH-FB-B	3.96	9.80	250
3	B3P-VH-FB-B	7.92	13.76	200
4	B4P-VH-FB-B	11.88	17.72	150
5	B5P-VH-FB-B	15.84	21.68	200
6	B6P-VH-FB-B	19.80	25.64	200
7	B7P-VH-FB-B	23.76	29.60	100
8	B8P-VH-FB-B	27.72	33.56	100
9	B9P-VH-FB-B	31.68	37.52	100
10	B10P-VH-FB-B	35.64	41.48	125

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PBT, UL94V-0, natural (white)

RoHS compliance This product displays (LF)(SN) on a label.

Note: The applicable housing for 2 circuits shrouded header is "VHR-2N" only.
"VHRR-2N" is not applicable.

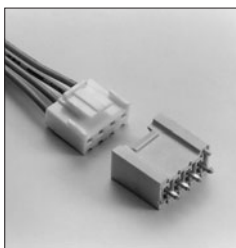
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **B2P-VH-FB-B-oo**

(blank)...natural (white)

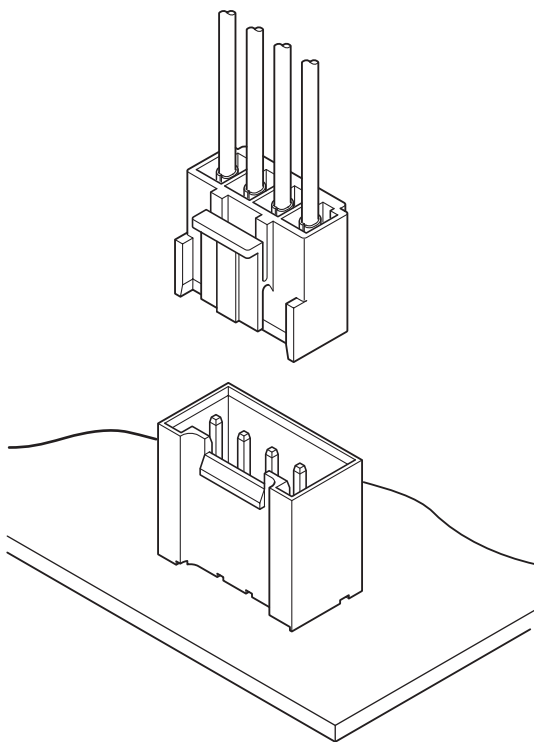
C...black R...red E...blue M...green O...orange Y...yellow

PK...pink H...gray



VH CONNECTOR <High box type>

3.96mm pitch/Disconnectable Crimp style connectors



Header for 3.96mm pitch VH connector for use specifically with resin coated ("potted") PC boards.

• Interchangeability

Specifications

- Current rating: 7 A AC, DC (AWG #18)
10 A AC, DC (AWG #16)/1 circuit only
 - Voltage rating: 250 V AC, DC
 - Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
 - Contact resistance: Initial value/ 10 mΩ max.
After environmental tests/ 20 mΩ max.
 - Insulation resistance: 1,000 MΩ min.
 - Withstanding voltage: 1,500 VAC/minute
 - Applicable wire: AWG #22 to #16
 - Applicable PC board thickness: 1.6 mm
- Note: Do not branch in parallel current which exceeds the rated current. If branched in parallel, current imbalance or other problems may develop. If it is absolutely necessary to branch such a large current in parallel, be sure to use contacts made of phosphor bronze. Design the circuits without causing imbalance and provide an extra margin for each circuit.*
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
 - * Contact JST for details.
 - * Compliant with RoHS.

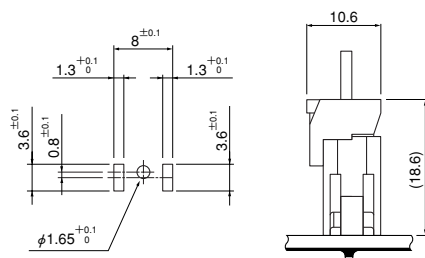
Standards

Recognized E60389

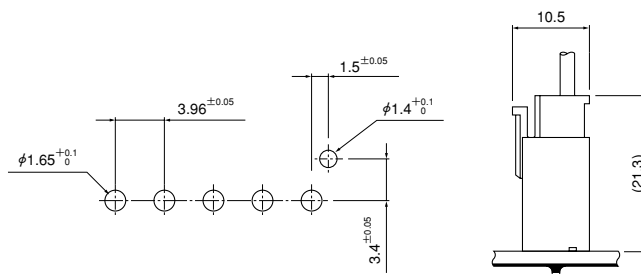
Certified LR20812

R75122

<Single circuit>



<2 to 8 circuits>



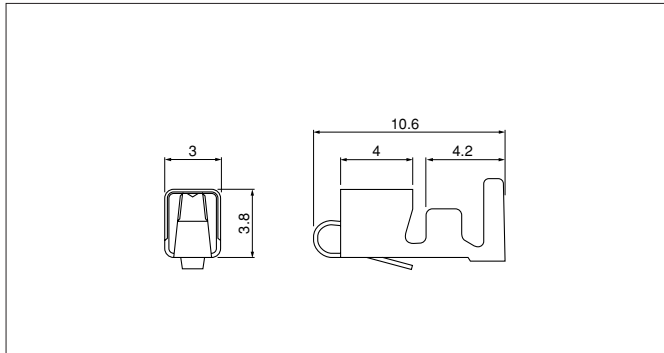
Note: 1. The above figure is the figure viewed from soldering side.

2. Tolerances are non-cumulative: ±0.05mm for all centers.

3. Hole dimensions differ according to the type of PC board and piercing method. The dimensions above should serve as a guide line. Contact JST for details.

VH CONNECTOR<High box type>

Contact



Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SVH-21T-P1.1	AP-K2N	MKS-L	MK/SVH-21-11	APLMK SVH21-11
		*MKS-SC	SC/SVH-21-11	APLSC SVH21-11

Note: *Strip-crimp applicator

Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SVH-21T-P1.1	0.33~0.83	22~18	1.7~3.0	4,500
*SVH-41T-P1.1	0.5 ~1.25	20~16	1.7~3.0	3,500

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Note: 1. *The current rating when combining with 1 circuit is 10A AC, DC (AWG #16.)

2. Contact JST for brass product.

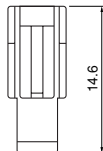
3. When using retainer mountable type housing, applicable wire's insulation O. D. shall be 1.7 to 2.2mm.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SVH-41T-P1.1	AP-K2N	MKS-L	MK/SVH-41-11	APLMK SVH41-11
		—	—	—

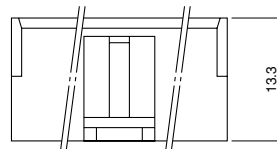
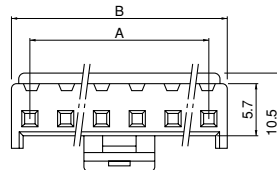
Housing

N Type

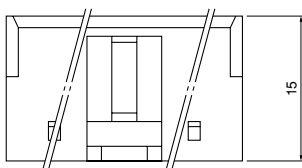
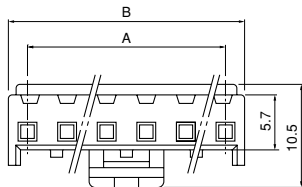
<Single circuit>



<2 to 8 circuits>



Retainer mountable type



Circuits	Model No.		Dimensions (mm)		Q'ty / bag
	N type	Retainer mountable type	A	B	
1	VHR-1N	—	—	—	1,000
2	VHR-2N	—	3.96	7.86	1,000
3	VHR-3N	VHRR-3N	7.92	11.82	*
4	VHR-4N	—	11.88	15.78	1,000
5	VHR-5N	VHRR-5N	15.84	19.74	*
6	VHR-6N	—	19.80	23.70	500
7	VHR-7N	VHRR-7N	23.76	27.66	500
8	VHR-8N	VHRR-8N	27.72	31.62	500

Material

PA 6, UL94V-0, natural (white)

RoHS compliance

* N type ; 1,000 Retainer mountable type ; 500

<For reference> As the color identification, the following alphabet shall be put in the underlined part.

For availability, delivery and minimum order quantity, contact JST.

ex. VHR-2N-oo

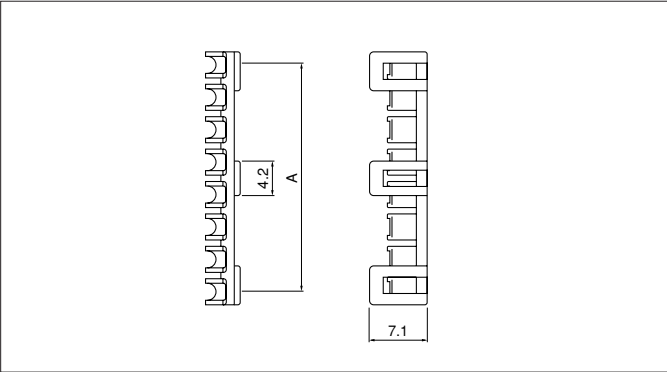
(blank)...natural (white)

BK...black R...red BL...blue M...green D...orange

Y...yellow PK...pink H...gray

VH CONNECTOR<High box type>

Retainer



Circuits	Model No.	A	Q'ty / bag
3	VHS-3V	7.52	1,000
5	VHS-5V	15.44	1,000
7	VHS-7V	23.36	1,000
8	VHS-8V	27.32	1,000

Material

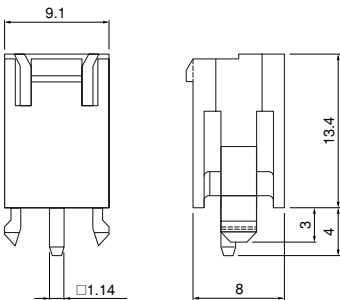
Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance

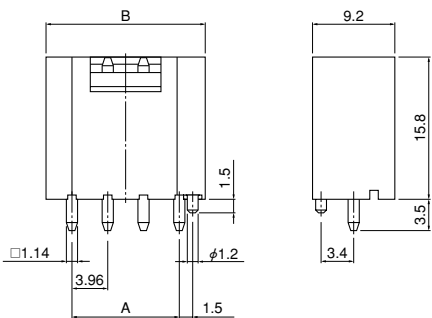
Shrouded header

With a boss

<Single circuit>



<2 to 8 circuits>



Circuits	Model No.	Q'ty / box
	With a boss	
1	BH1P-VH-1	5

Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL-94V-0, natural (white)

RoHS compliance This product displays (LF)(SN) on a label.
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **BH1P-VH-1-oo**
(blank)...natural (white) BK...black R...red BL...blue
M...green O...orange Y...yellow PK...pink

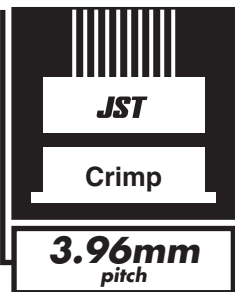
Circuits	Model No.	Dimensions (mm)		Q'ty / box
	With a boss	A	B	
2	BH2P-VH-1	3.96	9.80	250
3	BH3P-VH-1	7.92	13.76	200
4	BH4P-VH-1	11.88	17.72	150
5	BH5P-VH-1	15.84	21.68	100
6	BH6P-VH-1	19.80	25.64	100
7	BH7P-VH-1	23.76	29.60	100
8	BH8P-VH-1	27.72	33.56	100

Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PA 66, UL-94V-0, natural (ivory)

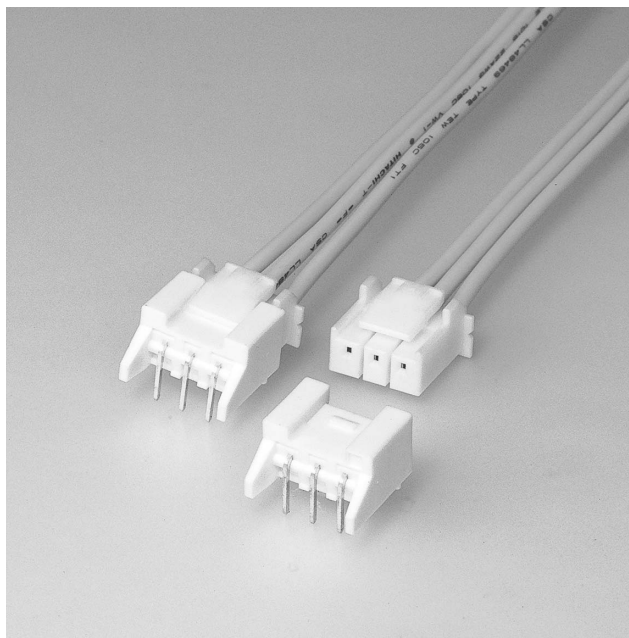
RoHS compliance This product displays (LF)(SN) on a label.
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **BH2P-VH-1-oo**
(blank)...natural (ivory) BK...black R...red BL...blue
M...green Y...yellow

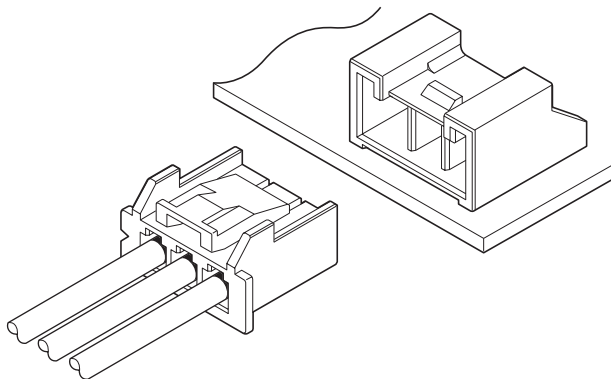


VU CONNECTOR

Disconnectable Crimp style connectors



VU connector is small type 3.96mm pitch PC board connector for large current and has the high reliability in a power supply circuit, considering the fully shrouded connector header structure against "vibrating connector" and "distorted extraction".



Features

• Secure locking device

The housing has a locking device to securely hold the header, preventing accidental disconnection, because of external force that might result from the routing of wires or of vibration, inverse insertion and mating with incorrect circuit.

• Shrouded header

Shrouded header provides the longer creepage distance and countermeasure for distorted extraction of connector.

• Flanged press pin

Header pin is the flanged press pin, preventing accidental removal of the pins due to distorted extraction of connector.

Specifications

- Current rating: 5A AC, DC (AWG #18)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #22 to #18
- Applicable PC board thickness: 1.6mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

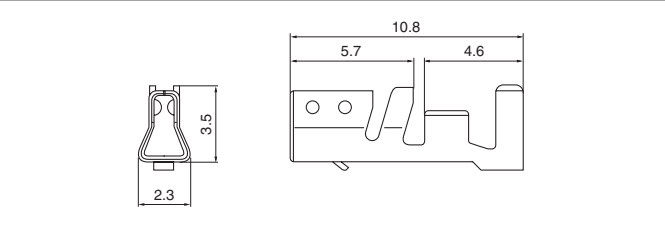
Standards

Recognized E60389

Certified LR20812

VU CONNECTOR

Contact

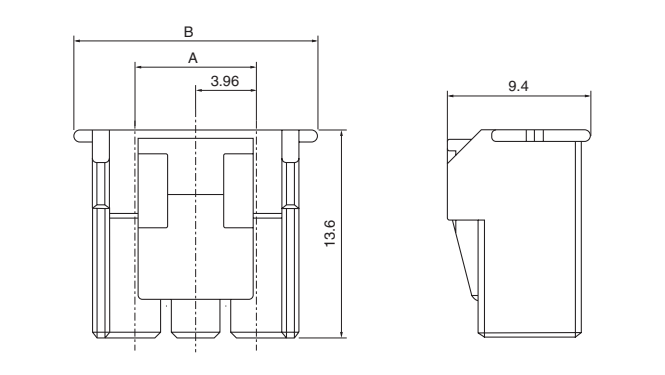


Model No.	Applicable wire		Insulation O.D.(mm)	Q'ty / reel
	mm ²	AWG#		
SVU-21T-P0.6	0.33 to 0.83	22 to 18	1.7 to 3.0	4,000

Material and Finish				
Phosphor bronze, tin-plated (reflow treatment)				

RoHS compliance

Housing



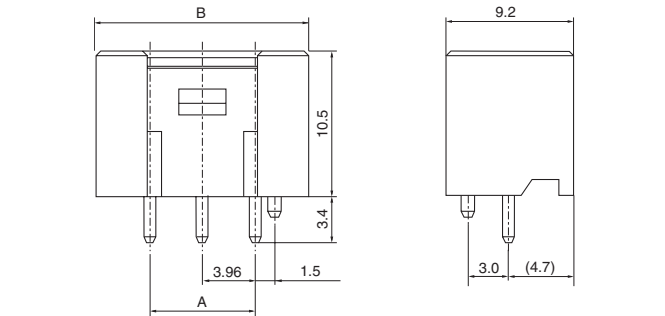
Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
3	VURP-03V-S	7.92	15.84	500

Material				
PA 66, UL94V-0, natural (white)				

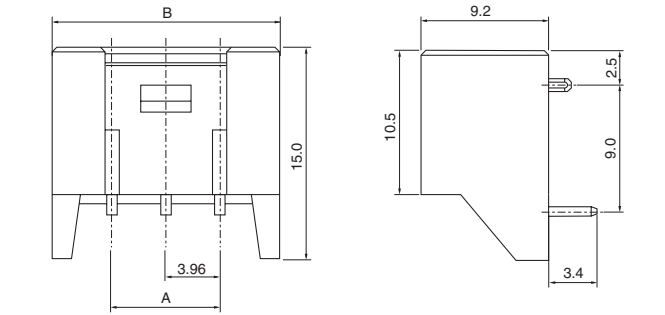
RoHS compliance

Shrouded header

Top entry type



Side entry type



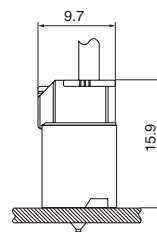
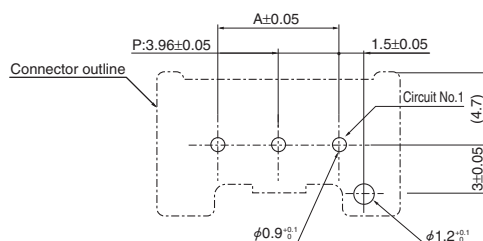
Circuits	Model No.		Dimensions (mm)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
3	B03B-VUSS-1	S03B-VUSS-1	7.92	15.84	200	200

Material and Finish						
Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Wafer: Glass-filled PBT, UL94V-0, natural (white)						

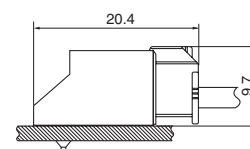
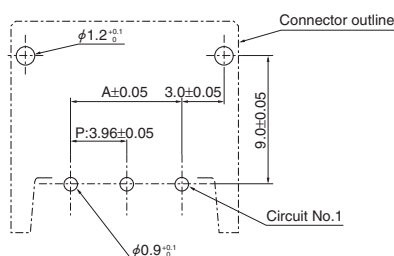
RoHS compliance This product displays (LF)(SN) on a label.

PC board layout (viewed from component side) and Assembly layout

Top entry type



Side entry type

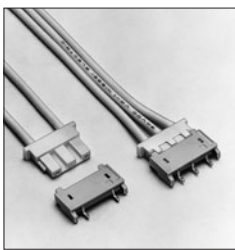


Note:

1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method.
The dimensions above should serve as a guideline. Contact JST for details.

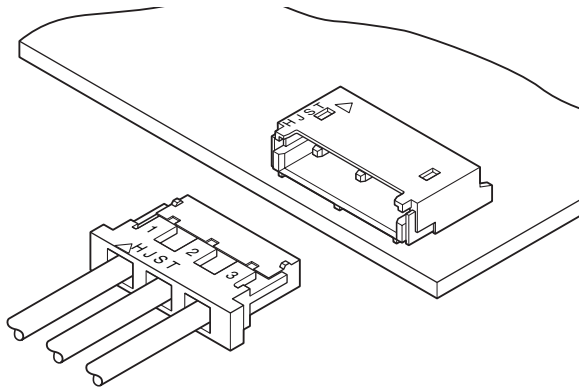
Crimping machine, Applicator

Contact	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies
SVU-21T-P0.6	AP-K2N	MKS-L	MK/SVU-21-06	APLMK SVU21-06
		—	—	—



BH CONNECTOR

4.0/8.0/12.0mm pitch/Disconnectable Crimp style connectors



Low profile connectors with high withstanding voltage, designed for connecting liquid crystal display back light lamps to their starters.

- Low profile
- SMT configuration
- Applicable to special wires
- Headers with locating bosses
- Housing lock also serves as polarizing device

Specifications

- Current rating: 1.0A AC, DC (AWG #22)
- Voltage rating: 600V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,800V AC/minute
- Applicable wire: AWG #28 to #22
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

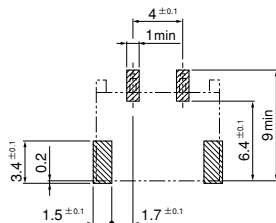
Recognized E60389

Certified LR20812

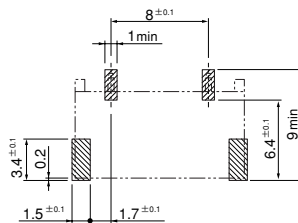
PC board layout (viewed from component side)

SMT type

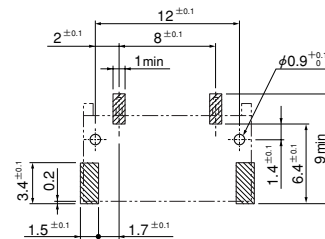
(2 circuits 4mm pitch)



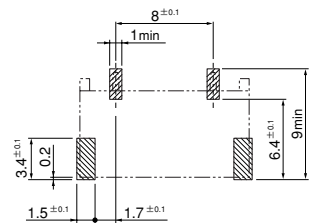
(2 circuits 8mm pitch)



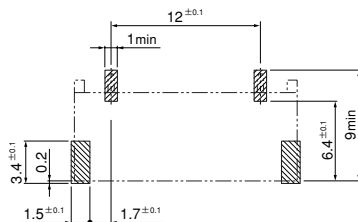
(2 circuits 8mm pitch with bosses)



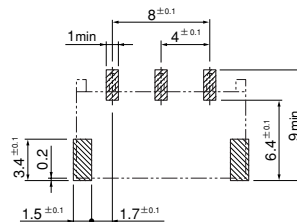
(2 circuits 8mm pitch plugged up)



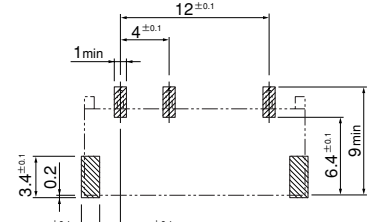
(2 circuits 12mm pitch)



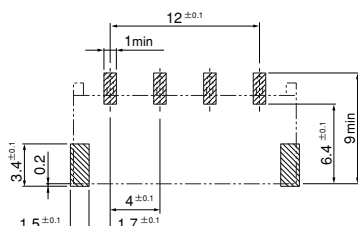
(3 circuits 4mm pitch)



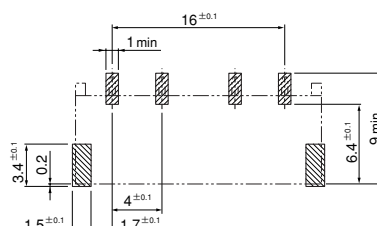
(3 circuits 4mm pitch plugged up)



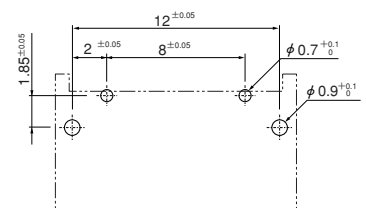
(4 circuits 4mm pitch)



(4 circuits 4mm pitch with post removed)



Through-hole type

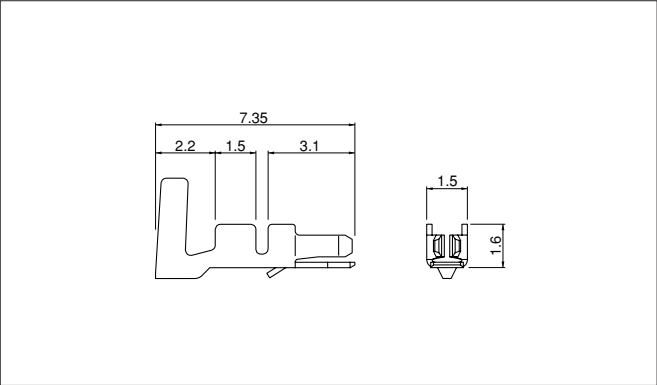


Note: 1. Tolerances are for pattern non-cumulative: ± 0.05 mm for all centers. Tolerance for hole size is ± 0.1 .

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as guideline. Contact JST for details.

BH CONNECTOR

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm²	AWG #		
SBH-001T-P0.5	0.08~0.33	28~22	1.6 ~2.4	4,000

Material and Finish

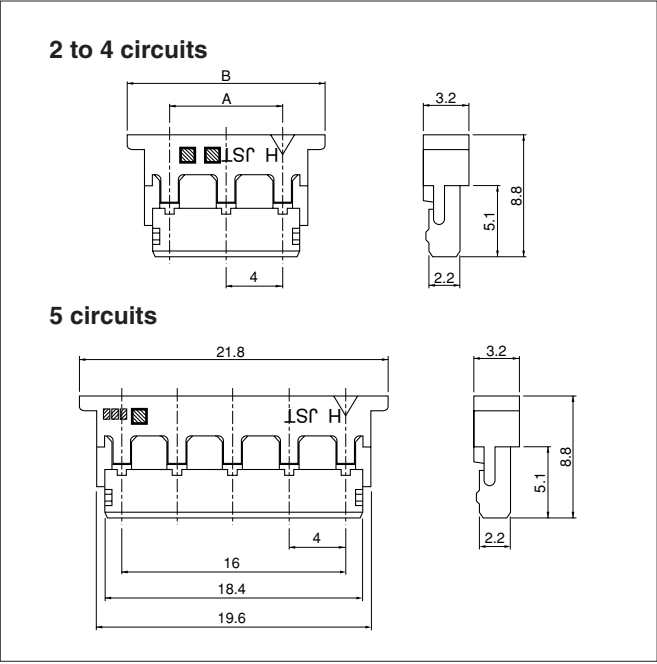
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance
Note: Wire conductors should be tin-plated annealed copper strands.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SBH-001T-P0.5	AP-K2N	MKS-L	MK/SBH/M-001-05	APLMK SBH/M001-05
		*MKS-SC1-1	SC/SBH/M-001-05	APLSC SBH/M001-05

Note: *Strip-crimp applicator

Housing



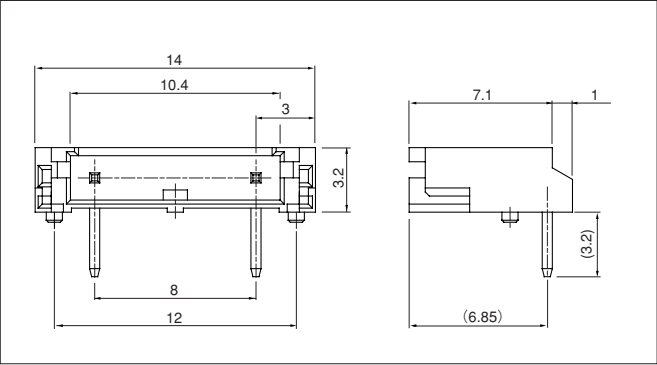
Circuits	Pitch (mm)	Model No.	Dimensions (mm)		Q'ty / bag
			A	B	
2	4	BHR-02VS-1	4.0	9.8	1,000
	8	BHR-03VS-1	8.0	13.8	1,000
	Note1) 8	BHR-02(8.0)VS-1N	8.0	13.8	1,000
	12	BHR-04VS-1	12.0	17.8	1,000
3	4	BHR-03VS-1	8.0	13.8	1,000
	Note2) 4	BHR-03(4-3)VS-1N	12.0	17.8	1,000
4	4	BHR-04VS-1	12.0	17.8	1,000
5	4	BHR-05VS-1	16.0	21.8	1,000

Material

PA 66, UL94V-0, natural (white)

RoHS compliance
Note: 1. BHR-02(8.0)VS-1N: 2 circuits 8.0mm pitch plugged up.
2. BHR-03(4-3)VS-1N: 4 circuits 4.0mm pitch header with circuit No.3 plugged up.

Through-hole type shrouded header



Circuits	Pitch (mm)	Model No.	Q'ty / tray
2	8	S02(8.0)B-BHS	1,000

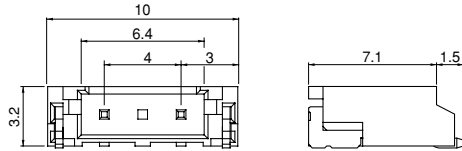
Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA, UL94V-0, natural (ivory)

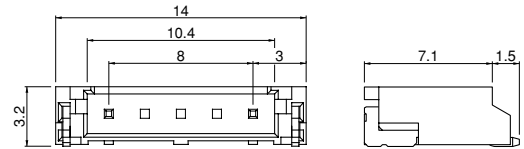
RoHS compliance This product displays (LF)(SN) on a label.
Note: The applicable housing is "BHR-02(8.0)VS-1N" only.

SMT type shrouded header

(2 circuits 4mm pitch)

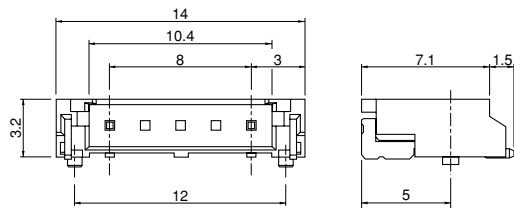


(2 circuits 8mm pitch)



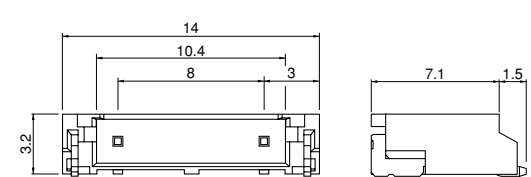
(2 circuits 8mm pitch with bosses)

Note 1)



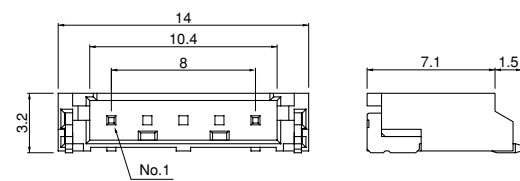
(2 circuits 8mm pitch plugged up)

Note 2)

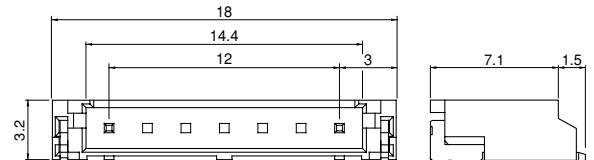


(2 circuits 8mm pitch with ribs against prying)

Note 4)

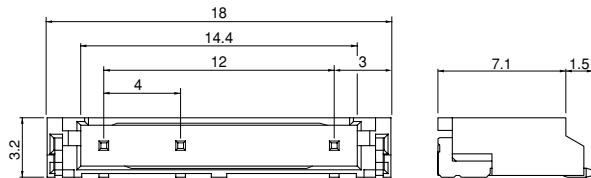


(2 circuits 12mm pitch)

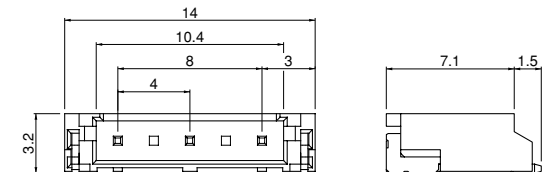


(3 circuits 4mm pitch plugged up)

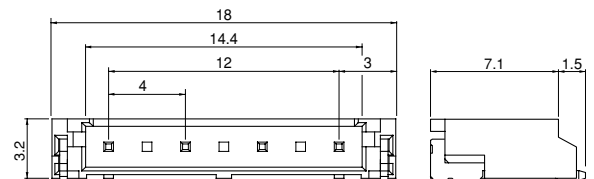
Note 3)



(3 circuits 4mm pitch)

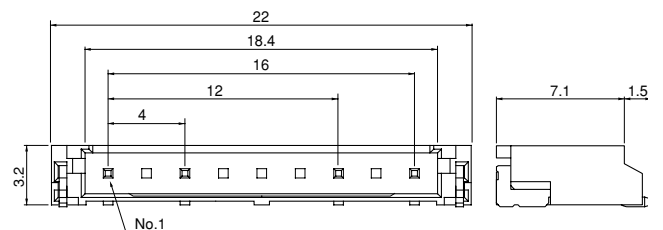


(4 circuits 4mm pitch)



(4 circuits 4mm pitch with post removed)

Note 5)



Circuits	Pitch(mm)	Model No.	Q'ty / reel
2	4	SM02(4.0)B-BHS-1-TB	1,000
	8	SM02(8.0)B-BHS-1-TB	1,000
	Note1) 8	SM02(8.0)B-BHS-TB	1,000
	Note2) 8	SM02(8.0)B-BHS-1N-TB	1,000
	Note4) 8	SM02(8.0)B-BHS-1R-TB	1,000
	12	SM02(12)B-BHS-1-TB	1,000
3	4	SM03(4.0)B-BHS-1-TB	1,000
	Note3) 4	SM03(7-D1)B-BHS-1N-TB	1,000
4	4	SM04(4.0)B-BHS-1-TB	1,000
5	Note5) 4	SM04(9-E2)B-BHS-1-TB	1,000

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
 Wafer: PA, UL94V-0, natural (ivory)
 Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Note: 1. Header with bosses. Contact JST for other circuits headers with bosses.

2. 2 circuits 8.0mm pitch plugged up.

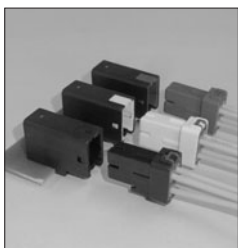
3. 4 circuits 4.0mm pitch header with circuit No.3 plugged up.

4. Header with ribs against prying. Contact JST for other circuits headers with ribs against prying.

5. 5 circuits 4.0mm pitch header with circuit No.3 post removed.

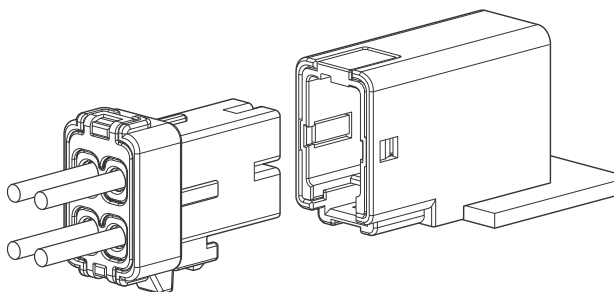
6. The products listed above are supplied on embossed tape.

7. Products with bosses supplied in loose piece are also available. Contact JST for details.



JWPS CONNECTOR

4.0mm pitch/Disconnectable Crimp style connectors



This JWPS connector can be used for the place of which especially waterproof is required.

This is the wire-to-board connector that is grade 7 ingress protection of JIS C 0920 (IPX7 of IEC 60529).

- **Waterproof performance**
- **Contained seal ring**
- **Solid rubber seal**
- **Double-spring construction**
- **Housing-to-terminal locks**
- **Mis-mating prevention key**

Specifications

- Current rating: 4 A AC, DC (AWG #22)
: 5 A AC, DC (AWG #20)
: 6 A AC, DC (AWG #18)
- Voltage rating: 300 V AC, DC
- Temperature range: -55°C to +85°C
(including temperature rise in applying electrical current)
- Applicable wire: Conductor size/ AWG #22 to #18
Insulation O.D./ 1.75 to 2.5 mm
- Applicable PC board thickness: 1.6 mm
- Waterproof grade: Grade 7 ingress protection of JIS C 0920 (IPX7 of IEC 60529)
(*Since the waterproof performance is not available at the opposite side of mating entrance, waterproof treatment is required, if necessary.)

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

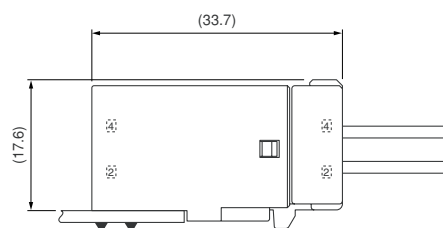
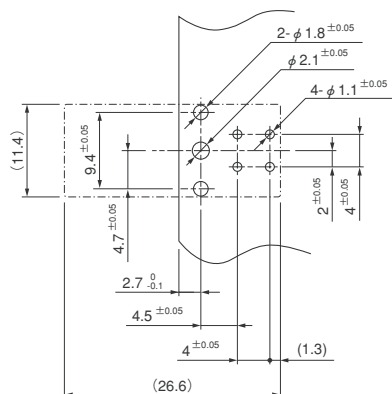
* Contact JST for details.

* Compliant with RoHS.

Standards

 Recognized E60389

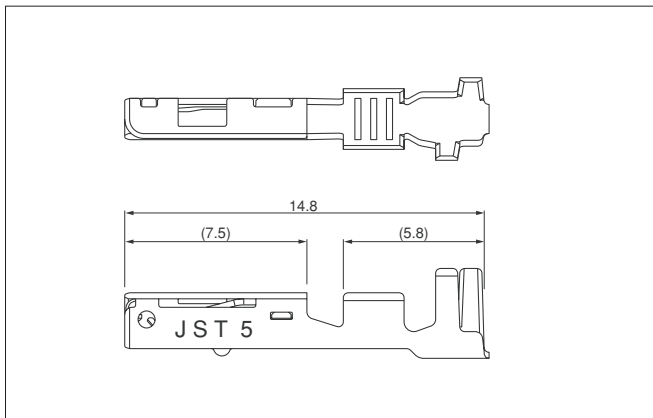
 Certified LR20812



Note: 1. The above figure is the figure viewed from the connector mounting side.
2. Hole dimensions differ according to the type of PC board and piercing method.
The dimensions above should serve as a guideline. Contact JST for details

JWPS CONNECTOR

Receptacle contact



Model No.	Applicable wire	Insulation O.D. (mm)	Q'ty / reel
	AWG#		
SJWPSR-21T-P1.0	22~18	1.75~2.5	4,500

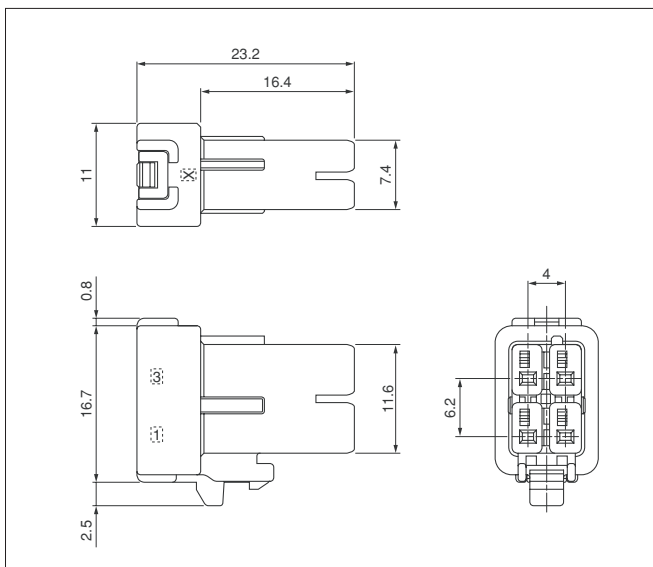
Material and Finish

Copper alloy, tin-plated

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SJWPSR-21T-P1.0	AP-K2N	MKS-L	MK/SJWPSR/T-21-10	APLKM SJWPSR/T21-10
		—	—	—

Receptacle housing assembly



Circuits	Keying	Model No.	Q'ty / box
4	X	04R-JWPS-VKLE-DX-A	400
	Y	04R-JWPS-VSLE-DY-A	400
	Z	04R-JWPS-VELE-DZ-A	400

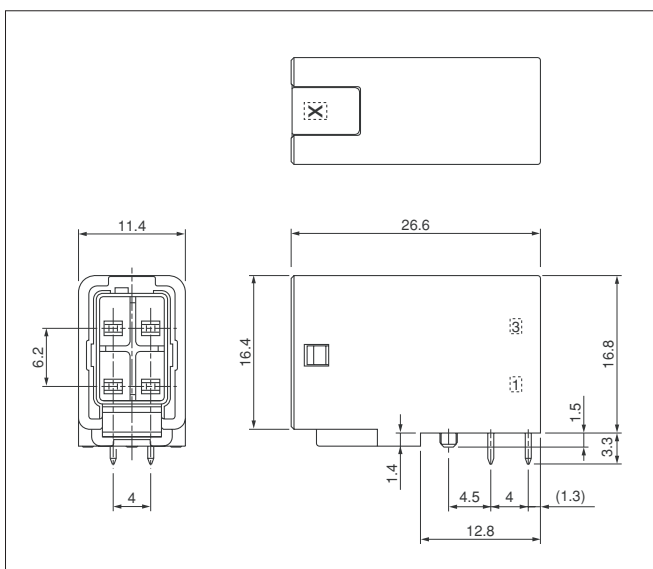
Material

Receptacle housing: Glass-filled PBT, UL94V-0, X keying (black), Y keying (natural), Z keying (blue)
Retainer: PBT, UL94V-0, purple
Seal rubber plate: Silicone rubber, light blue

RoHS compliance

Note: Seal rubber plate and retainer are preassembled in receptacle housing assembly.

Header housing assembly



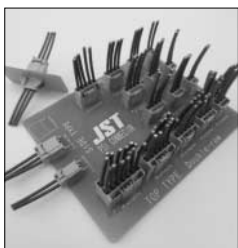
Circuits	Keying	Model No.	Q'ty / box
4	X	S04B-JWPS-KKS-XR	160
	Y	S04B-JWPS-KSS-YR	160
	Z	S04B-JWPS-KES-ZR	160

Material and Finish

Header housing: Glass-filled PBT, UL94V-0, black
Seal ring holder: Glass-filled PBT, UL94V-0, X keying (black), Y keying (natural), Z keying (blue)
Seal ring: Silicone rubber, brown
Tab contact: Copper alloy, tin-plated

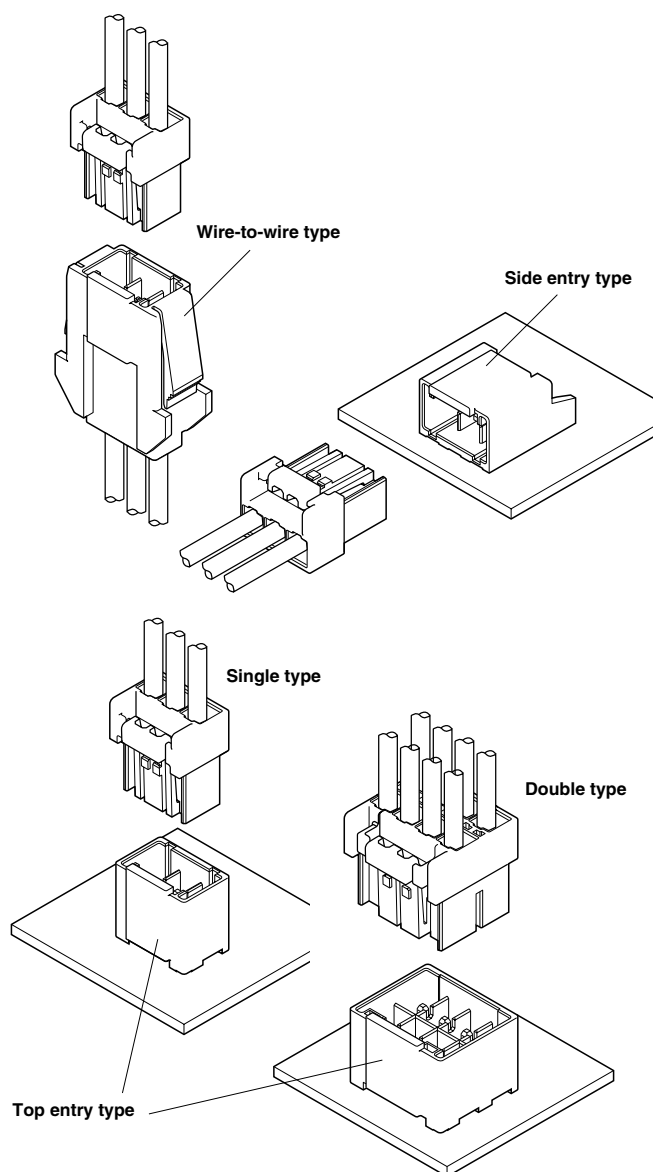
RoHS compliance

This product displays (LF)(SN) on a label.
Note: Seal ring and seal ring holder are preassembled in header housing assembly.



PSI CONNECTOR

4.0mm pitch/Disconnectable Crimp style connectors



This PSI connector is designed for wire-to-board and wire-to-wire 4.0mm pitch connector. Low insertion force type contact is adopted and it provides excellent operability. This connector has the secure locking device that has the mechanism for preventing the inverse insertion. By adopting key shape and multi colors of housing, prevention function of mis-mating is considered.

- **Secure locking structure**
- **Mis-mating prevention mechanism by keying (2 to 4 circuits/3 kinds of keying)**
- **Finger-friendly design**
- **Large electric current was realized.**

Specifications

- Current rating: 12 A AC, DC (Refer to the following table.)
- Voltage rating: 300 V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 10 mΩ max.
After environmental tests/ 20 mΩ max.
- Insulation resistance: 1,000 MΩ min.
- Withstanding voltage: 1,500 VAC/minute
- Applicable wire: AWG #26 to #16

- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Compliant with RoHS.

Note: The current rating differs depending on the number of circuits and the wire size used in each connector. The table below lists the current rating as a function of the number of circuits and the wire size.

Circuits	Wire size (AWG)					
	# 16	# 18	# 20	# 22	# 24	# 26
2	12	10	8	5	4	3
3	11	9	7	5	4	3
4, 5, 6, 8	10	8	6	5	4	3
10, 12	9	7	6	5	4	3
14	9	7	6	4.5	4	3

Note: Do not branch in parallel current which exceeds the rated current (e.g. more than 12 A in the case of 2 circuits with AWG #12). If branched in parallel, current imbalance or other problems may develop. If it is absolutely necessary to branch such a large current in parallel, design the circuits without causing any imbalance and provide an extra margin for each circuit.

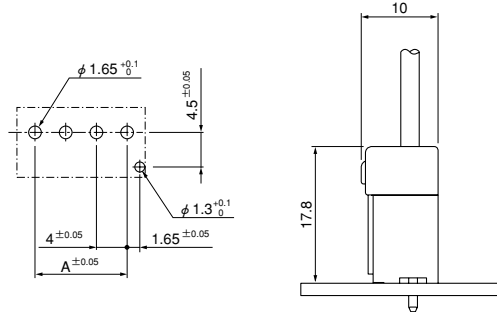
Standards

- Ⓜ Recognized E 60389
- Ⓢ Certified LR 20812
- Ⓡ R50259465

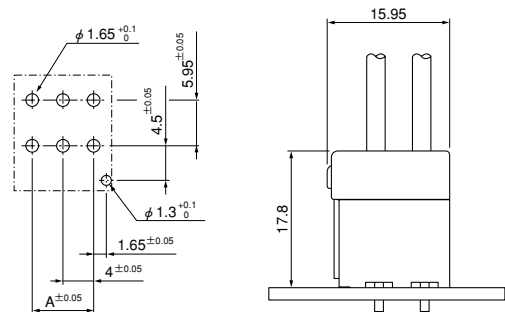
Contact

Top entry type

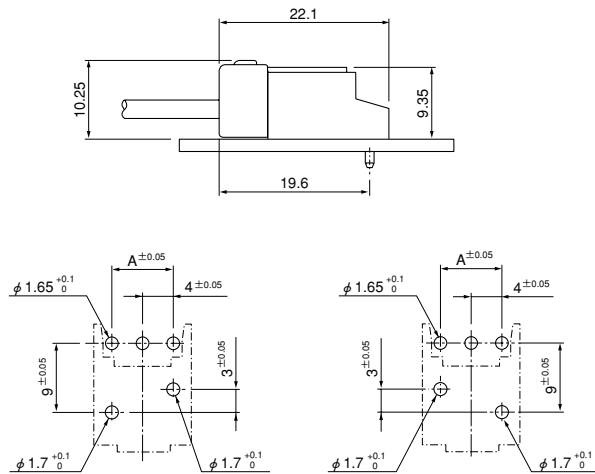
●Single type



●Double type



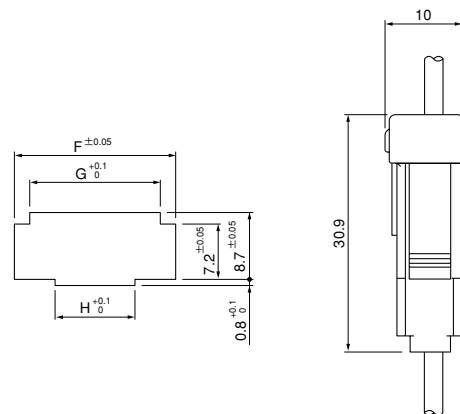
Side entry type



Keying: A, B types

Keying: C type

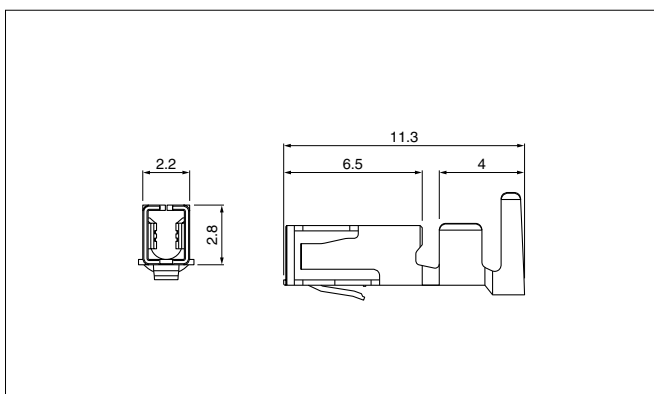
Wire-to-wire type



Note: 1. The above figure is the figure viewed from the connector mounting side
2. Tolerances are non-cumulative: ± 0.05 mm for all centers.
3. Hole dimensions differ according to the type of PC board and piercing method.
The dimensions above should serve as a guideline. Contact JST for details.

Circuits	F		G	H	Applicable panel thickness
	$0.8 \leq t \leq 1.2$	$1.2 < t \leq 2.0$			
2	13	13.3	9	6.8	0.8~2.0
3	17	17.3	13	8.4	

Socket contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SPSI-001T-M1.1	0.13~0.33	26~22	1.3~2.4	2,600
SPSI-41T-M1.1	0.5 ~1.25	20~16	1.7~3.2	2,600

Material and Finish

Copper alloy, tin-plated

RoHS compliance

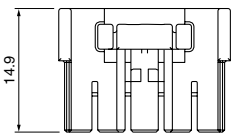
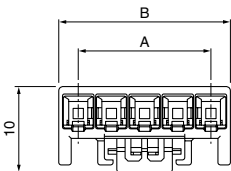
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPSI-001T-M1.1	AP-K2N	MKS-L	MK/SPSI/M-001-11	APLMK SPSI/M001-11
		—	—	—
SPSI-41T-M1.1	—	MKS-L	MK/SPSI/M-41-11	APLMK SPSI/M41-11
		—	—	—

PSI CONNECTOR

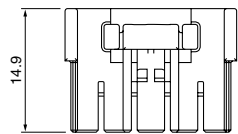
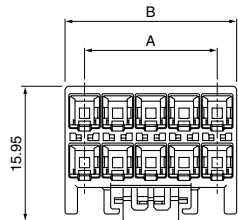
Socket housing

Top entry type

<2 to 5 circuits>



<6 to 14 circuits>



Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
2	A	PSIP-02V-LE-A	4.0	8.7	500
	B	PSIP-02V-Y-B	4.0	8.7	500
	C	PSIP-02V-R-C	4.0	8.7	500
3	A	PSIP-03V-LE-A	8.0	12.7	300
	B	PSIP-03V-Y-B	8.0	12.7	300
	C	PSIP-03V-R-C	8.0	12.7	300
4	A	PSIP-04V-LE-A	12.0	16.7	200
	B	PSIP-04V-Y-B	12.0	16.7	200
	C	PSIP-04V-R-C	12.0	16.7	200
5	—	PSIP-05V-LE	16.0	20.7	200
6	—	PSIP-06V-LE	8.0	12.7	200
8	—	PSIP-08V-LE	12.0	16.7	200
10	—	PSIP-10V-LE	16.0	20.7	150
12	—	PSIP-12V-LE	20.0	24.7	150
14	—	PSIP-14V-LE	24.0	28.7	100

Material

Glass-filled PBT, UL94V-0

RoHS compliance

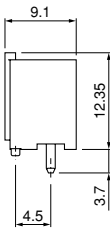
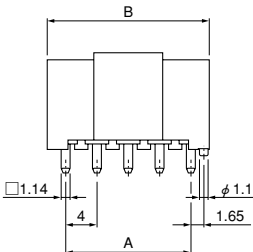
<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **PSIP-02V-LE-A** LE...light blue Y...yellow R...red

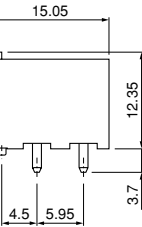
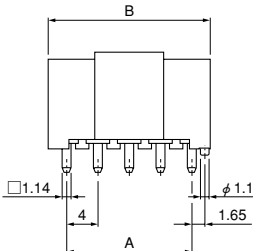
Header

Top entry type

<2 to 5 circuits>

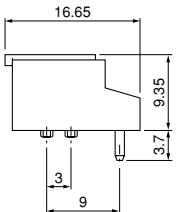
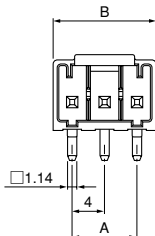


<6 to 14 circuits>



Side entry type

<2, 3 circuits>



Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
2	A	B02B-PSILE-A1	4.0	8.7	500
	B	B02B-PSIY-B1	4.0	8.7	500
	C	B02B-PSIR-C1	4.0	8.7	500
3	A	B03B-PSILE-A1	8.0	12.7	300
	B	B03B-PSIY-B1	8.0	12.7	300
	C	B03B-PSIR-C1	8.0	12.7	300
4	A	B04B-PSILE-A1	12.0	16.7	200
	B	B04B-PSIY-B1	12.0	16.7	200
	C	B04B-PSIR-C1	12.0	16.7	200
5	—	B05B-PSILE-1	16.0	20.7	200
6	—	B06B-PSILE-1	8.0	12.7	200
8	—	B08B-PSILE-1	12.0	16.7	200
10	—	B10B-PSILE-1	16.0	20.7	150
12	—	B12B-PSILE-1	20.0	24.7	150
14	—	B14B-PSILE-1	24.0	28.7	100

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Header: Glass-filled PBT, UL94V-0

Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
2	A	S02B-PSILE-A1	4.0	8.7	350
	B	S02B-PSIY-B1	4.0	8.7	350
	C	S02B-PSIR-C2	4.0	8.7	350
3	A	S03B-PSILE-A1	8.0	12.7	200
	B	S03B-PSIY-B1	8.0	12.7	200
	C	S03B-PSIR-C2	8.0	12.7	200

Material and Finish

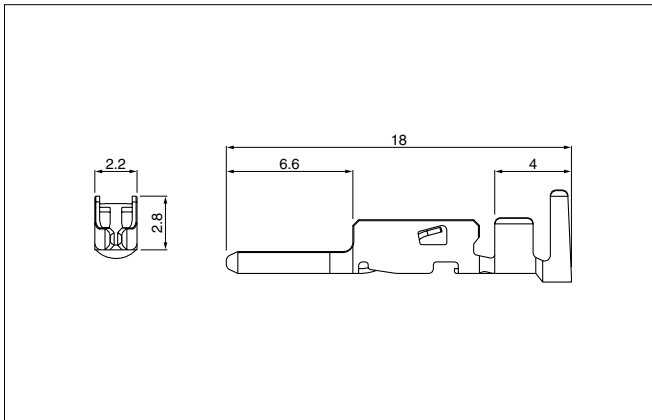
Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Header: Glass-filled PBT, UL94V-0

RoHS compliance This product displays (LF)(SN) on a label.
Note: Other kinds of post-omitted products are available. Contact JST for details.

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **B02B-PSILE-A1** LE...light blue Y...yellow R...red

Pin contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SPSM-001T-M1.1	0.13~0.33	26~22	1.3~2.4	2,600
SPSM-41T-M1.1	0.5 ~1.25	20~16	1.7~3.2	2,600

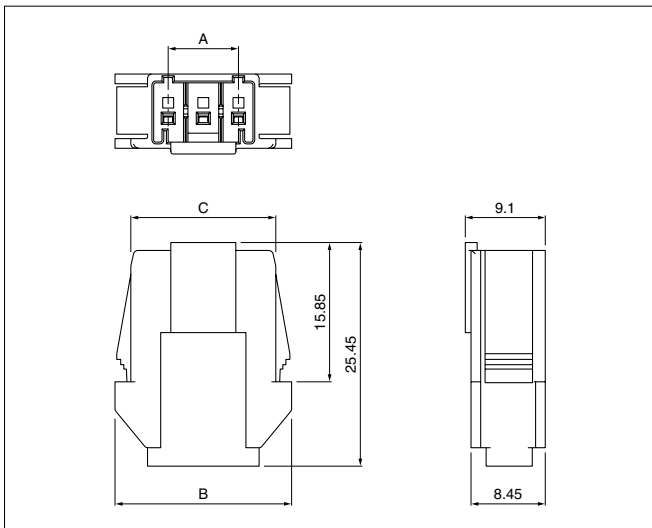
Material and Finish

Copper alloy, tin-plated

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPSM-001T-M1.1	AP-K2N	MKS-L	MK/SPSI/M-001-11	APLMK SPSI/M001-11
SPSM-41T-M1.1		MKS-L	MK/SPSI/M-41-11	APLMK SPSI/M41-11

Receptacle housing



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
2	A	PSIR-02V-LE-A	4.0	16.1	12.5	200
	B	PSIR-02V-Y-B	4.0	16.1	12.5	200
3	A	PSIR-03V-LE-A	8.0	20.1	16.5	150
	B	PSIR-03V-Y-B	8.0	20.1	16.5	150

Material

Glass-filled PBT, UL94V-0

RoHS compliance

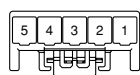
<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **PSIR-03V-LE-A**

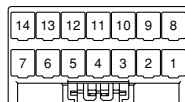
LE...light blue Y...yellow

Contact position location numbers

Socket housing



Single
<2 to 5 circuits>



Double
<6 to 14 circuits>

Header

●Top entry



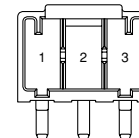
Single
<2 to 5 circuits>



Double
<6 to 14 circuits>

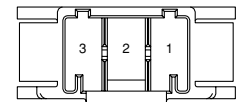
Header

●Side entry



Single
<2 to 3 circuits>

Receptacle housing

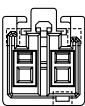
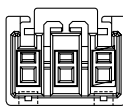
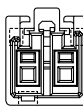
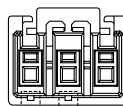
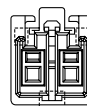
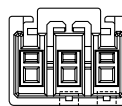
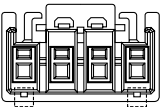
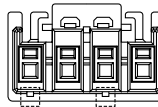
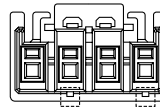


Single
<2 to 3 circuits>

PSI CONNECTOR

Keying


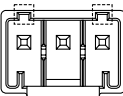

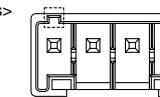
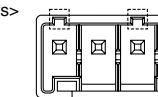
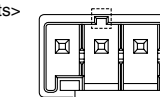
■ Socket housing

Shape		A type		B type		C type							
Mating part		<2 circuits> 		<3 circuits> 		<2 circuits> 		<3 circuits> 		<2 circuits> 		<3 circuits> 	
		<4 circuits> 		<4 circuits> 		<4 circuits> 							
Model No.	2 circuits	Blue	PSIP-02V-LE-A		Yellow	PSIP-02V-Y-B		Red	PSIP-02V-R-C				
	3 circuits		PSIP-03V-LE-A			PSIP-03V-Y-B			PSIP-03V-R-C				
	4 circuits		PSIP-04V-LE-A			PSIP-04V-Y-B			PSIP-04V-R-C				

From 2 circuit to 4 circuit are applied.

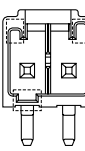
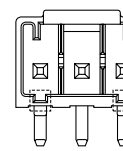
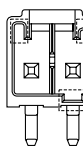
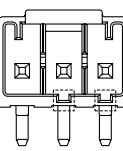
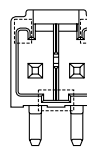
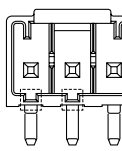
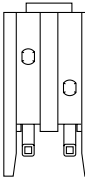
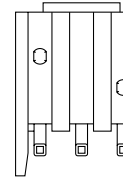
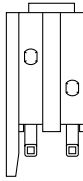
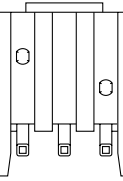
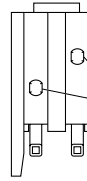
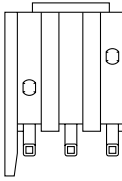
■ Header

Top entry type

Top entry type							
Shape		A type		B type		C type	
Mating part		<2 circuits>		<2 circuits>		<2 circuits>	
							
		<3 circuits>		<3 circuits>		<3 circuits>	
		<4 circuits>		<4 circuits>		<4 circuits>	
							
Model No.	2 circuits	Blue	B02B-PSILE-A1	Yellow	B02B-PSIY-B1	Red	B02B-PSIR-C1
	3 circuits		B03B-PSILE-A1		B03B-PSIY-B1		B03B-PSIR-C1
	4 circuits		B04B-PSILE-A1		B04B-PSIY-B1		B04B-PSIR-C1

From 2 circuit to 4 circuit are applied.

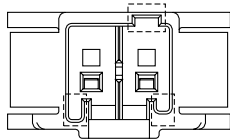
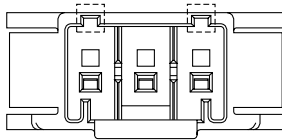
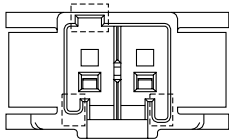
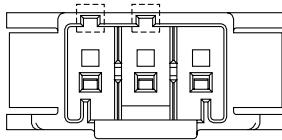
Side entry type

Side entry type		Shape		A type		B type		C type		
Mating part		<2 circuits>	<3 circuits>	<2 circuits>	<3 circuits>	<2 circuits>	<3 circuits>	<2 circuits>	<3 circuits>	
										
		<2 circuits>	<3 circuits>	<2 circuits>	<3 circuits>	<2 circuits>	<3 circuits>	<2 circuits>	<3 circuits>	
								Note) Boss		
Model No.	2 circuits	Blue	S02B-PSILE-A1		Yellow	S02B-PSIY-B1		Red	S02B-PSIR-C2	
	3 circuits		S03B-PSILE-A1			S03B-PSIY-B1			S03B-PSIR-C2	

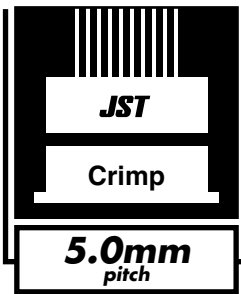
From 2 circuit to 3 circuit are applied.

Note) Boss: Only C type boss position is reversed.

■ Receptacle housing

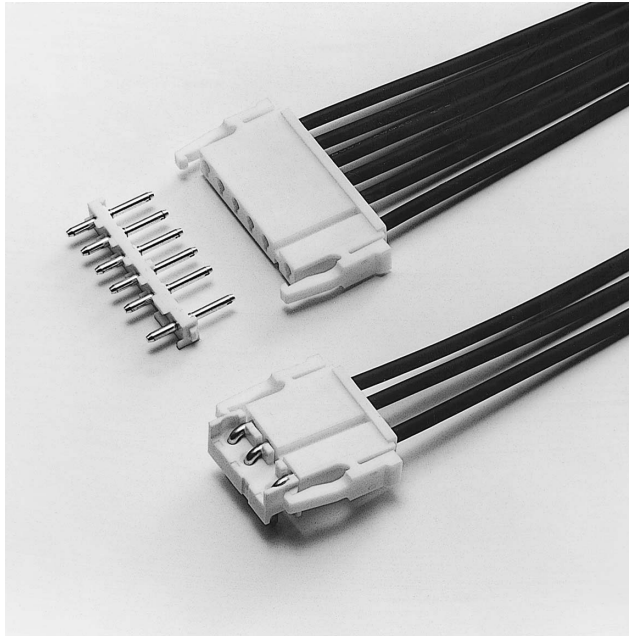
Receptacle housing					
Shape		A type		B type	
Mating part		<2 circuits>	<3 circuits>	<2 circuits>	<3 circuits>
					
Model No.	2 circuits	Blue	PSIR-02V-LE-A	Yellow	PSIR-02V-Y-B
	3 circuits		PSIR-03V-LE-A		PSIR-03V-Y-B

From 2 circuit to 3 circuit are applied.

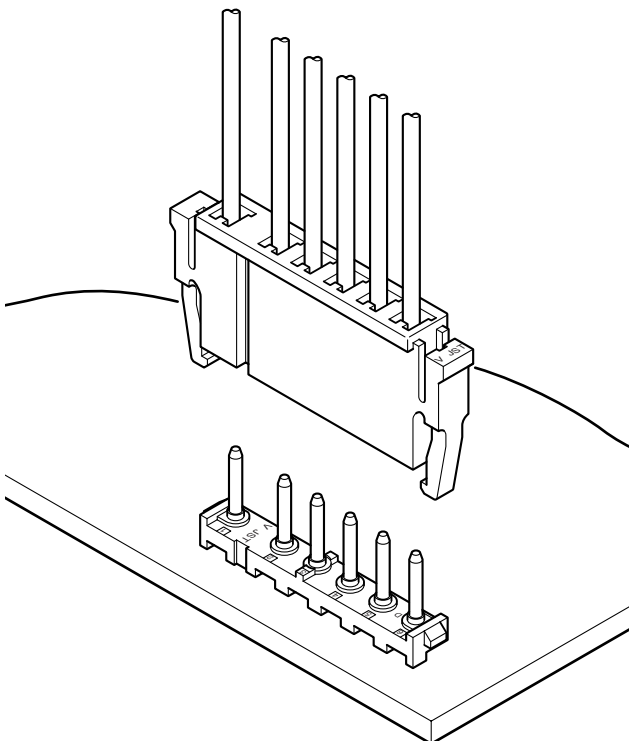


DV CONNECTOR

Disconnectable Crimp style connectors



One position has a different pitch than the others. This provides the connector with polarization and prevents misinsertion.



Features

• **Secure mounting**

The housing lock feature secures the connector with the header, ensuring that a stable connection is maintained during vibration.

• **Twin-beam contacts**

Each contact has two wiping areas, ensuring a stable and reliable connection.

• **Housing lances**

The lances on the resilient housing ensure each insertion and secure locking of the contact into housing.

Specifications

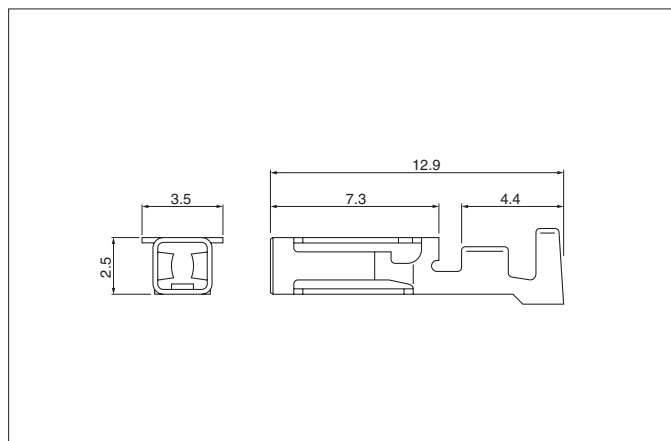
- Current rating: 5A AC, DC (AWG #20)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #24 to #20
0.22 to 0.5mm²
- Applicable PC board thickness: 1.6mm
- * Compliant with RoHS.
- * Temperature Range:
The aforementioned temperature range of this connector is described in JST Standard Product Specification.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

Recognized E60389

Certified LR20812

Contact



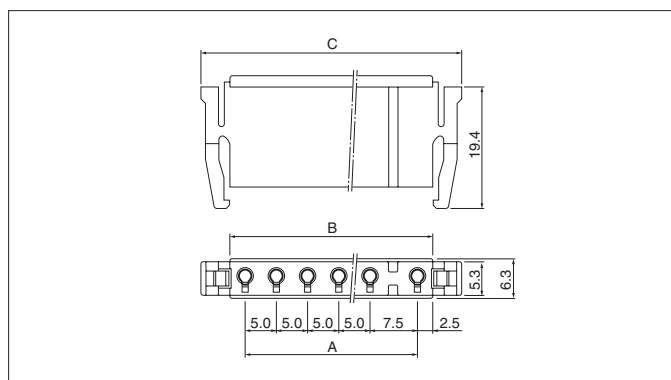
Model No.	Applicable wire			Q'ty / reel
	mm ²	AWG #	Insulation O.D. (mm)	
SDY-01T-P1.6ASV	0.22 to 0.5	24 to 20	1.5 to 2.7	6,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Housing



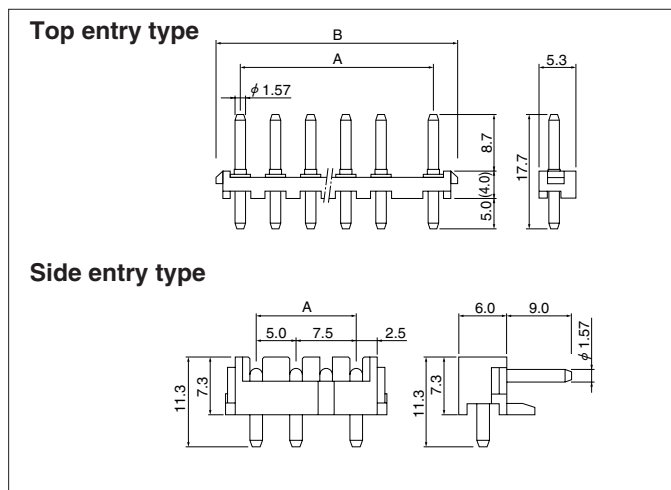
Cir- cuits	Model No.	Dimensions (mm)			Q'ty / bag
		A	B	C	
2	DVR-02V-S	7.5	12.5	21.7	500
3	DVR-03V-S	12.5	17.5	26.7	500
4	DVR-04V-S	17.5	22.5	31.7	500
5	DVR-05V-S	22.5	27.5	36.7	500
6	DVR-06V-S	27.5	32.5	41.7	500

Material

PA 66, UL94V-0, natural (white)

RoHS compliance

Header



Cir- cuits	Model No.		Dimensions (mm)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
2	B02B-DVS-L	S02B-DVS-L	7.5	12.5	500	250
3	B03B-DVS-L	S03B-DVS-L	12.5	17.5	500	250
4	B04B-DVS-L	—	17.5	22.5	250	—
5	B05B-DVS-L	—	22.5	27.5	250	—
6	B06B-DVS-L	—	27.5	32.5	200	—

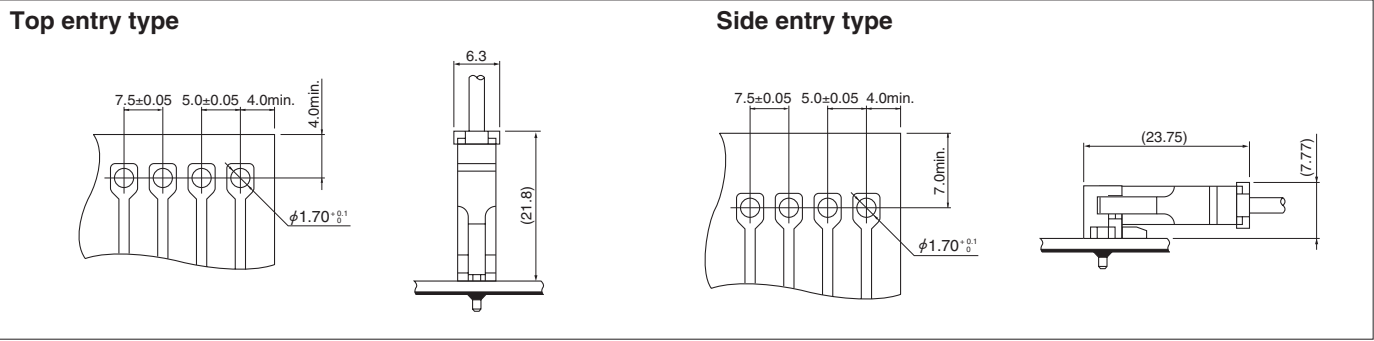
Material and Finish

Pin: Brass, nickel-undercoated, tin/copper alloy-plated
Wafer: Glass-filled PBT, UL94V-0, natural (white)

RoHS compliance This product displays (LF) on a label.

DV CONNECTOR

PC board layout (viewed from soldering side) and Assembly layout



Note:

1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method.

The dimensions above should serve as a guideline. Contact JST for details.

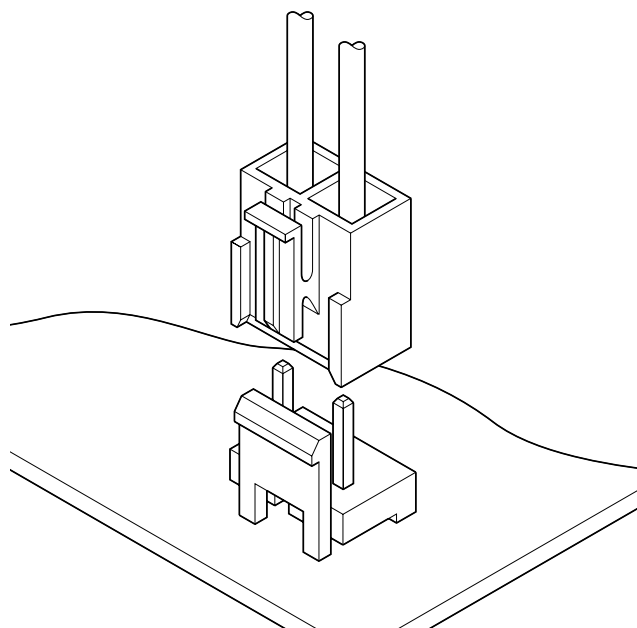
Crimping machine, Applicator

Contact	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies
SDY-01T-P1.6ASV	AP-K2N	MKS-L	MK/SDY-01-16AS	APLMK SDY01-16AS
		-	-	-



NV CONNECTOR

5.0mm pitch/Disconnectable Crimp style connectors



- **Side stackable**
- **Box contact**
- **Compact connector with a large capacity**
- **Secure contact and mounting**

Specifications

- Current rating: 10A AC, DC (AWG #16)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #22 to #16
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

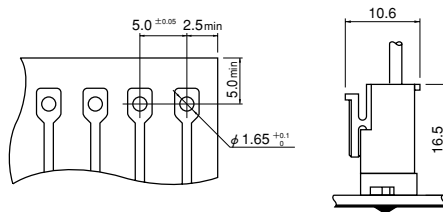
Standards

Recognized E60389

Certified LR20812

R9251676

PC board layout (viewed from soldering side) and Assembly layout

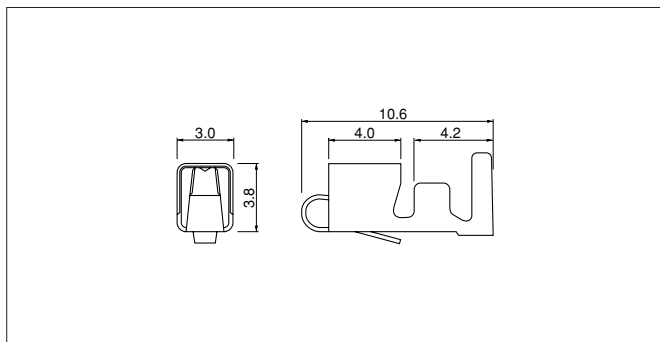


Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline.

Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SVH-21T-P1.1	0.33~0.83	22~18	1.7~3.0	4,500
SVH-41T-P1.1	0.5 ~1.25	20~16	1.7~3.0	3,500

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

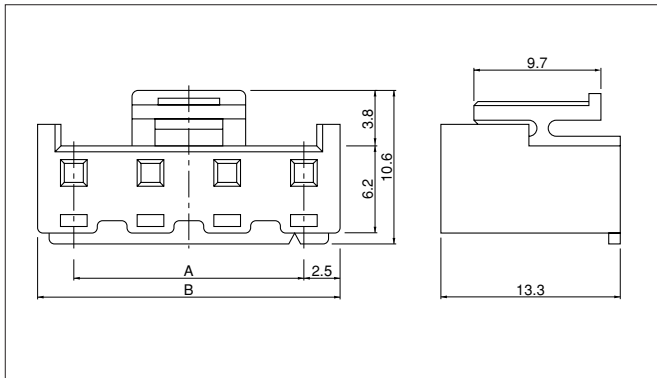
Note: Contact JST for brass products.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SVH-21T-P1.1	AP-K2N	MKS-L	MK/SVH-21-11	APLMK SVH21-11
		*MKS-SC	SC/SVH-21-11	APLSC SVH21-11
SVH-41T-P1.1		MKS-L	MK/SVH-41-11	APLMK SVH41-11
		—	—	—

Note: *Strip-crimp applicator

NV CONNECTOR

Housing



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	NVR-02	5.0	10.0	1,000
3	NVR-03	10.0	15.0	500
4	NVR-04	15.0	20.0	1,000

Material

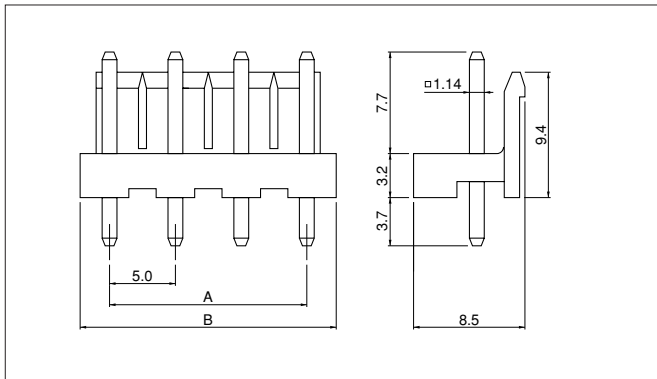
PA 6, UL94V-0, natural (white)

RoHS compliance

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **NVR-02-oo**
(blank)...natural (white)
E...blue

Locking header



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	B02P-NV	5.0	10.0	1,000
3	B03P-NV	10.0	15.0	700
4	B04P-NV	15.0	20.0	500

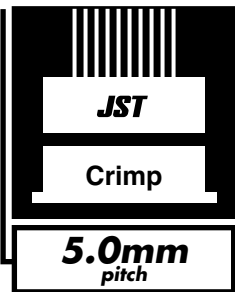
Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: B02P-NV...PA 66,UL94V-0, natural (white)
B03P-NV & B04P-NV...Glass-filled PBT, UL94V-0, natural (white)

RoHS compliance

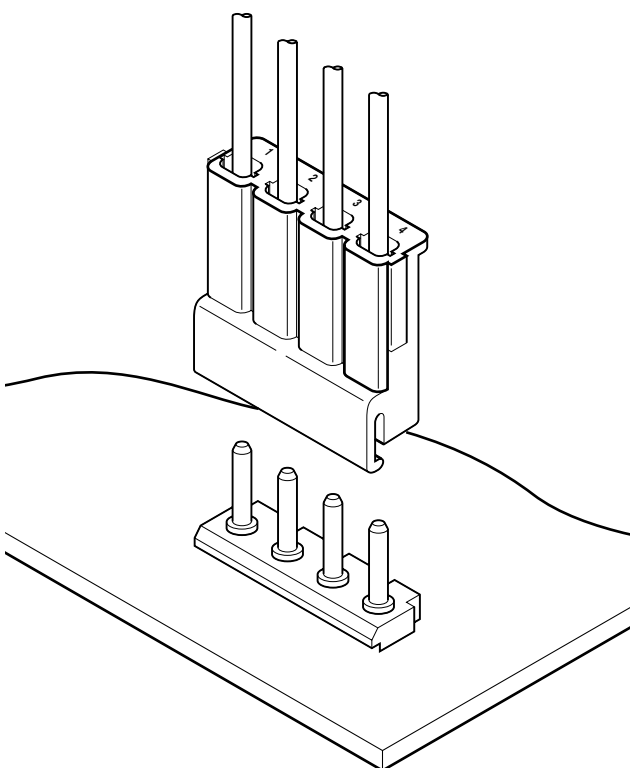
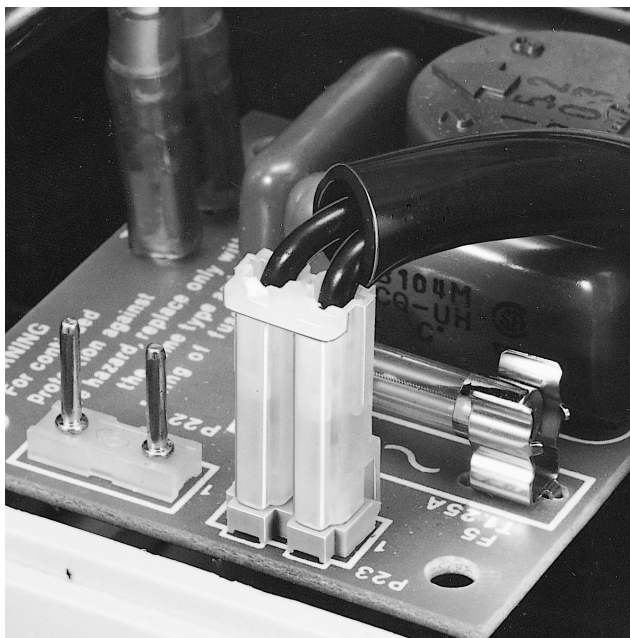
This product displays (LF)(SN) on a label. <For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **B02P-NV-oo**
(blank)...natural (white)
BL...blue



SV CONNECTOR

Disconnectable Crimp style connectors



Features

• Anti-misinsertion feature

The directional features of the housing prevent reverse contact insertion.

• Locking mechanism

The housings with two or four circuits have locking mechanisms. This feature also provides polarization so that the housing cannot be mated with the header.

Specifications

- Current rating: 5A AC, DC (AWG #20)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/15m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #24 to #20
- Applicable PC board thickness: 1.6mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

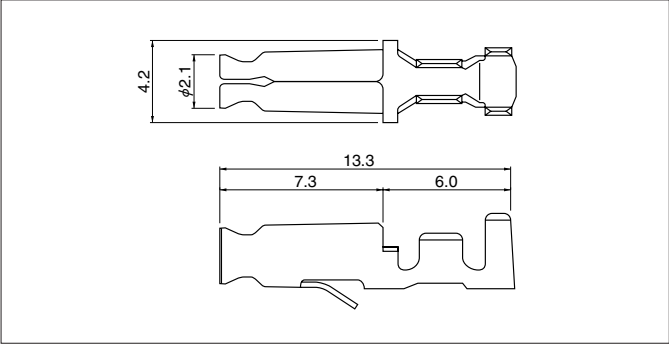
Recognized E60389

Certified LR20812

R75171

SV CONNECTOR

Contact



Model No.	Applicable wire			Q'ty / reel
	mm ²	AWG #	Insulation O.D. (mm)	
SVF-01T-1.5N	0.2 to 0.5	24 to 20	1.5 to 2.5	4,000

Material and Finish

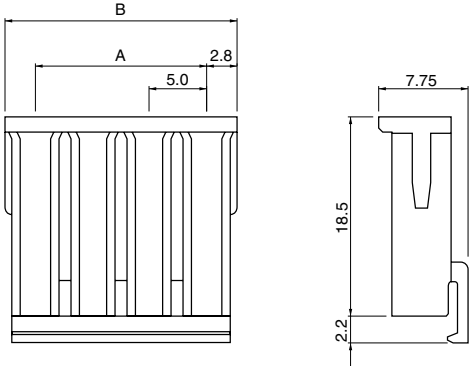
Brass, tin-plated (reflow treatment)

RoHS compliance

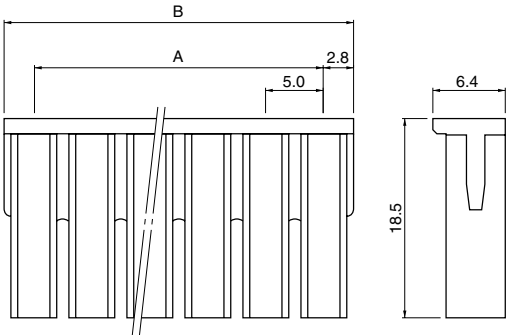
Note: Contact JST for details if you require shielded wires, thin wires or other special wires, or if two wires must be crimped in one contact.

Housing

Shape A



Shape B



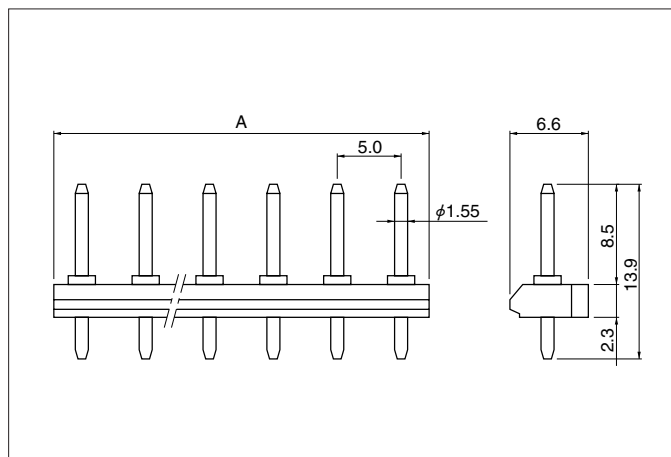
Cir- cuits	Model No.	Shape	Dimensions (mm)		Q'ty / bag
			A	B	
2	S 2P-SVF	A	5.0	10.6	1,000
4	S 4P-SVF	A	15.0	20.6	500
6	S 6P-SVF	B	25.0	30.6	500
8	S 8P-SVF	B	35.0	40.6	200
10	S10P-SVF	B	45.0	50.6	200

Material

PA 6, UL94V-2, natural (white)

RoHS compliance

Header



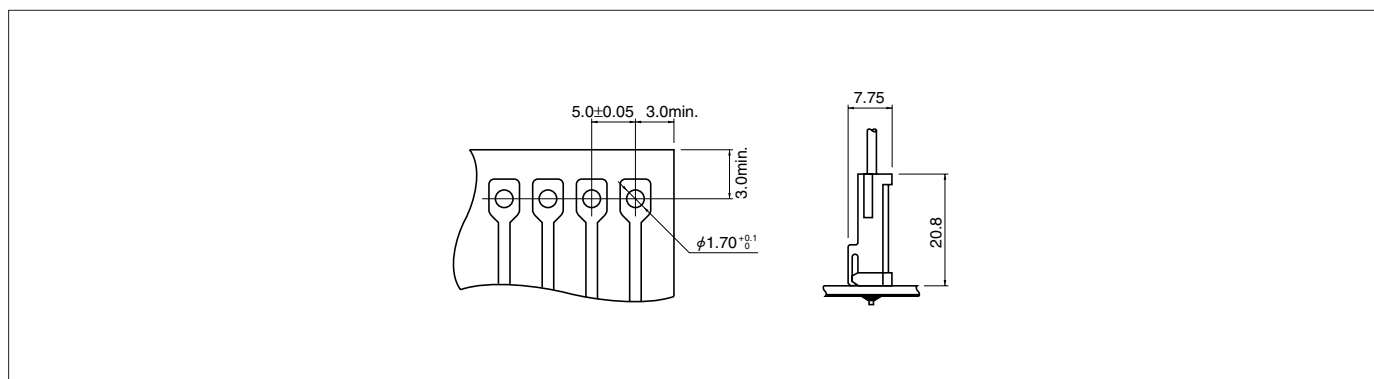
Cir- cuits	Model No.	Dimension A (mm)	Q'ty / box
2	RTB-1.5-02F	10.0	1,000
4	RTB-1.5-04F	20.0	500
6	RTB-1.5-06F	30.0	250
8	RTB-1.5-08F	40.0	200
10	RTB-1.5-10F	50.0	100

Material and Finish

Post: Brass, nickel-undercoated, tin/copper alloy-plated
Wafer: Glass filled PA 66, UL94V-0, natural (ivory)

RoHS compliance This product displays (LF) on a label.

PC board layout (viewed from soldering side) and Assembly layout

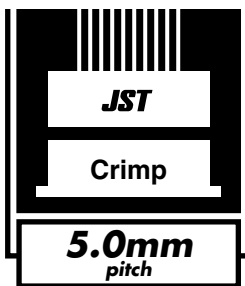


Note:

1. Tolerances are non-cumulative: ± 0.05 mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

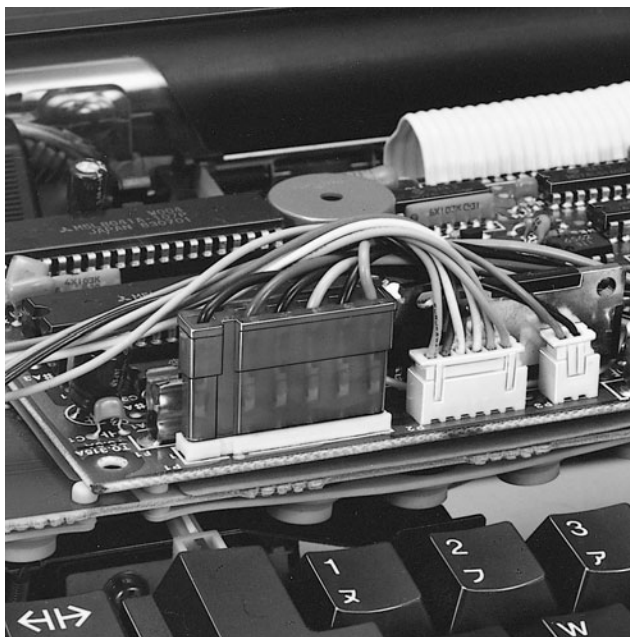
Crimping machine, Applicator

Contact	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies
SVF-01T-1.5N	AP-K2N	MKS-L	MK/SVF-01-15N	APLMK SVF01-15N
		—	—	—

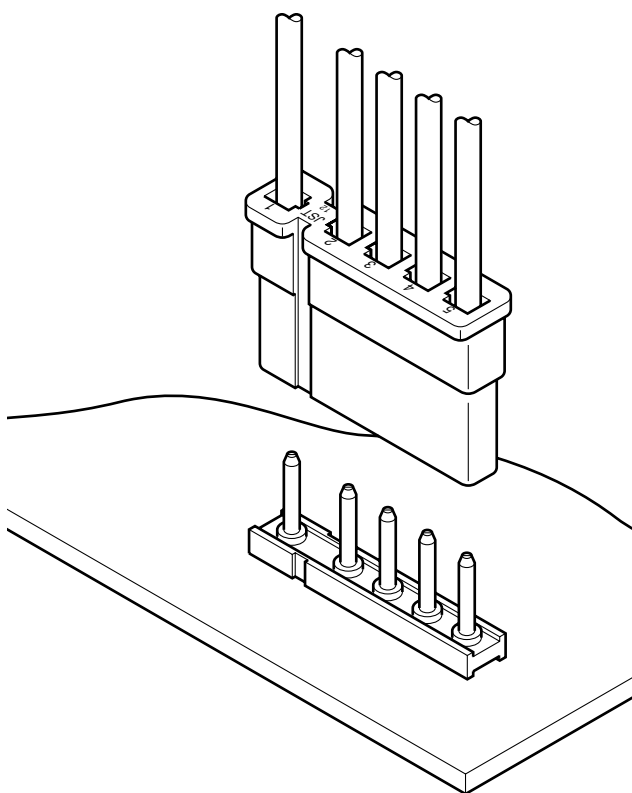


V CONNECTOR

Disconnectable Crimp style connectors



The V connector can have from two to six circuits. A single contact position is provided 7.5mm away from the adjacent position, while the pitch of other positions is 5.0mm. This prevents reverse connection of the receptacle and header.



Features

• Anti-misinsertion construction

One position has a different pitch than the others. This provides the connector with polarization and prevents misinsertion.

• Two-point contact

Each contact has two wiping areas which ensure stable and reliable connection.

Specifications

- Current rating: 5A AC, DC (AWG #20)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #26 to #20
- Applicable PC board thickness: 1.6mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

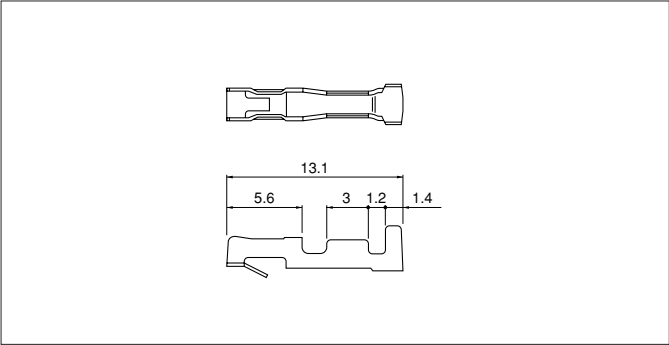
Recognized E60389

Certified LR20812

R75171

V CONNECTOR

Contact



Model No.	Applicable wire			Q'ty / reel
	mm ²	AWG #	Insulation O.D. (mm)	
SVF-01T-1.5A	0.13 to 0.5	26 to 20	1.3 to 2.7	15,000

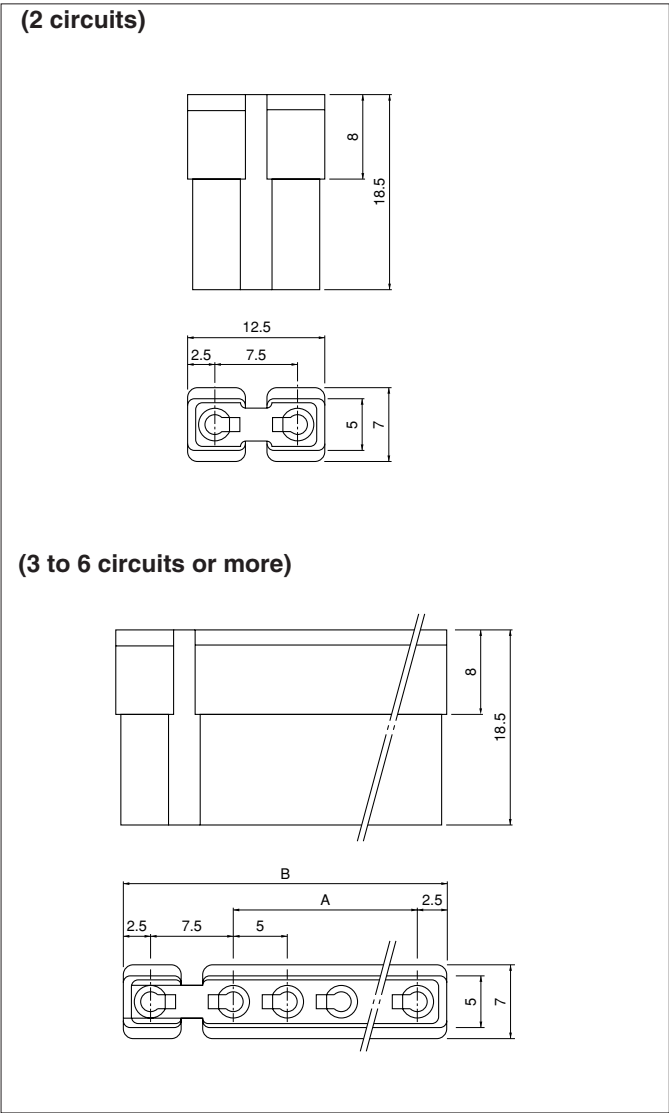
Material and Finish

Brass, tin-plated (reflow treatment)

RoHS compliance

Note: Contact JST for details if you require shielded wires, thin wires or other special wires, or if two wires must be crimped in one contact.

Housing



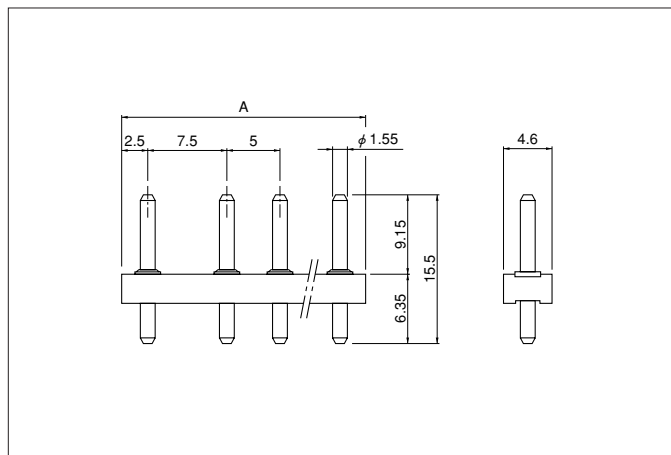
Cir- cuits	Model No.		Dimensions (mm)		Q'ty / bag
			A	B	
2	2P-SVF	2P-SVF-V	–	–	1,000
3	3P-SVF	3P-SVF-V	5.0	17.5	1,000
4	4P-SVF	4P-SVF-V	10.0	22.5	500
5	5P-SVF	5P-SVF-V	15.0	27.5	500
6	6P-SVF	6P-SVF-V	20.0	32.5	500

Material

PA 6, ()P-SVF...UL94V-2, ()P-SVF-V...UL94V-0, natural (white)

RoHS compliance

Header



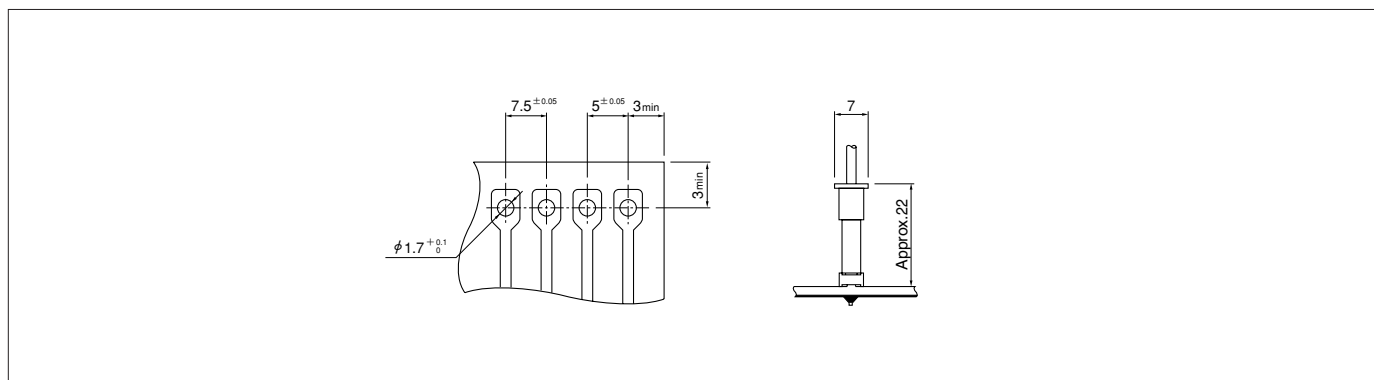
Cir- cuits	Model No.	Dimension A (mm)	Q'ty / box
2	RTB-1.5-2P	12.5	1,000
3	RTB-1.5-3P	17.5	1,000
4	RTB-1.5-4P	22.5	500
5	RTB-1.5-5P	27.5	500
6	RTB-1.5-6P	32.5	250

Material and Finish

Pin: Brass, nickel-undercoated, tin/copper alloy-plated
Wafer: Glass-filled PBT, UL94V-0, natural (white)

RoHS compliance This product displays (LF)(SN) on a label.

PC board layout (viewed from soldering side) and Assembly layout



Note:

1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

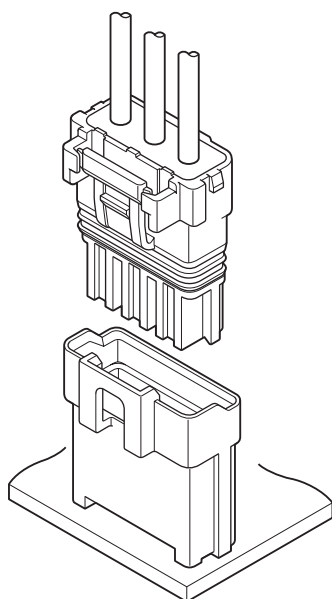
Crimping machine, Applicator

Contact	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies
SVF-01T-1.5A	AP-K2N	MK-L	MK/SVF-01-15A	APLMK SVF01-15A
		—	—	—



WPJ CONNECTOR

5.0mm pitch/Disconnectable Crimp style connectors



Compact, Water Resist and Durable. This connector for electrical connection can be used on both waterproof and non-waterproof conditions, depending on the usage. Just by placing a rubber part will change it into a water resistant connector. Both conditions are using the same header.

- Waterproof performance [Grade 7 ingress protection of JIS C 0920 (IPX7 of IEC 60529)]
- Control key system
- Contacting part of contact is hardly deformed
- Inner locking system
- Compact design

Specifications

- Current rating: 7 A AC, DC (AWG #18)
- Voltage rating: 300 V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 10 mΩ max.
After environmental tests/ 20 mΩ max.
- Insulation resistance: 1,000 MΩ min.
- Withstanding voltage: 1,500 VAC/minute
- Applicable wire: Conductor size/ AWG #22 to #18
Insulation O.D./ 2.32 to 2.83 mm
1.52 to 2.03 mm
- Waterproof grade: Grade 7 ingress protection of JIS C 0920 (IPX7 of IEC 60529)

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

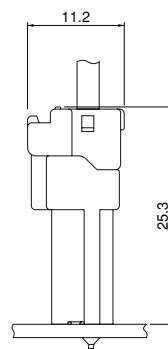
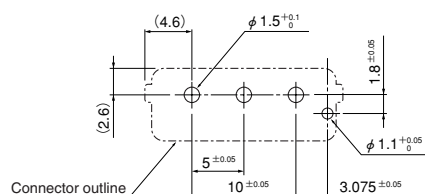
* Compliant with RoHS.

Standards

Recognized E60389

Certified LR20812

File No.R50073100

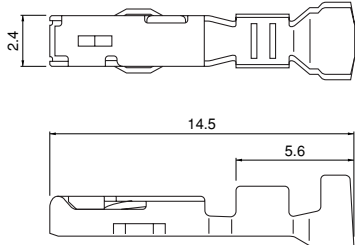


Note: 1. The above figure is the figure viewed from the connector mounting side.
2. Tolerances are non-cumulative: ± 0.05 mm for all centers.
3. The dimensions above should serve as a guideline. Contact JST for details.

WPJ CONNECTOR

(Non-waterproof type)

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SWPJR-21T-M0.5	0.33~0.83	22~18	2.32~2.83	4,500
SWPJR-21T-M0.5A	0.33~0.83	22~18	1.52~2.03	4,500

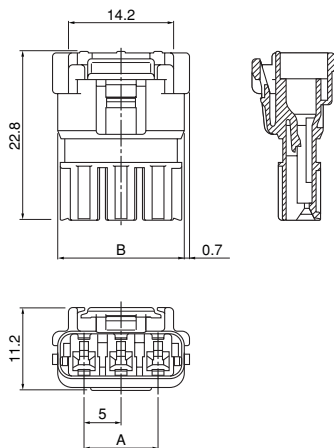
Material and Finish

Copper alloy, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SWPJR-21T-M0.5	AP-K2N	MKS-L	MK/SWPJR/T-21-05	APLMK SWPJR/T21-05
		—	—	—
SWPJR-21T-M0.5A	AP-K2N	MKS-L	MK/SWPJR/T-21-05A	APLMK SWPJR/T21-05A
		—	—	—

Housing



Receptacle housing

Circuits	Model No.	A	B	Q'ty / box
2	WPJR-02V-1-S	—	12.1	1,000
3	WPJR-03V-1-S	10.0	17.1	1,000

Material

Glass-filled PBT, UL94V-0, natural (white)

RoHS compliance

<For reference> Polarizing key pattern

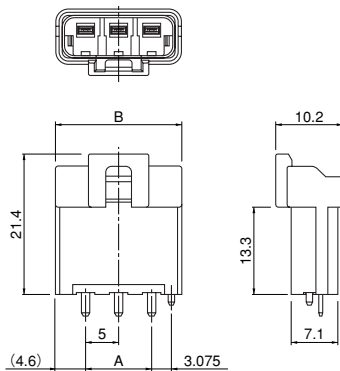
Key pattern No.1(Color: Natural): **WPJR-02V-1-S**

Key pattern No.2(Color: Red): **WPJR-02V-2-R**

Key pattern No.3(Color: Blue): **WPJR-02V-3-E**

For availability, delivery and minimum order quantity, contact JST.

Header



Circuits	Model No.	A	B	Q'ty / bag
2	B02B-WPJSS-1	—	14.2	600
3	B03B-WPJSS-1	10.0	19.2	390

Material and Finish

Wafer: Glass-filled PBT, UL94V-0

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance

This product displays (LF)(SN) on a label.

<For reference> Polarizing key pattern

Key pattern No.1(Color: Natural): **B02B-WPJSS-1**

Key pattern No.2(Color: Red): **B02B-WPJRS-2**

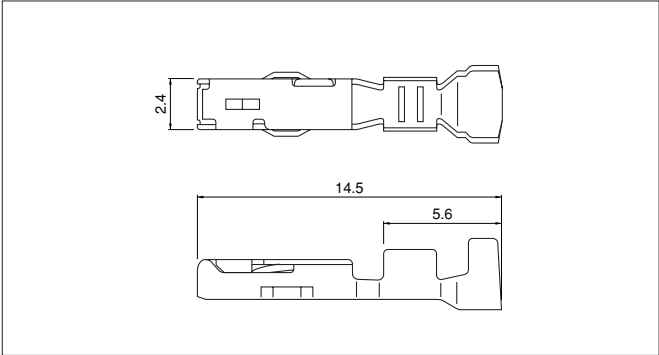
Key pattern No.3(Color: Blue): **B02B-WPJES-3**

For availability, delivery and minimum order quantity, contact JST.

WPJ CONNECTOR

(Waterproof type)

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SWPJR-21T-M0.5	0.33~0.83	22~18	2.32~2.83	4,500

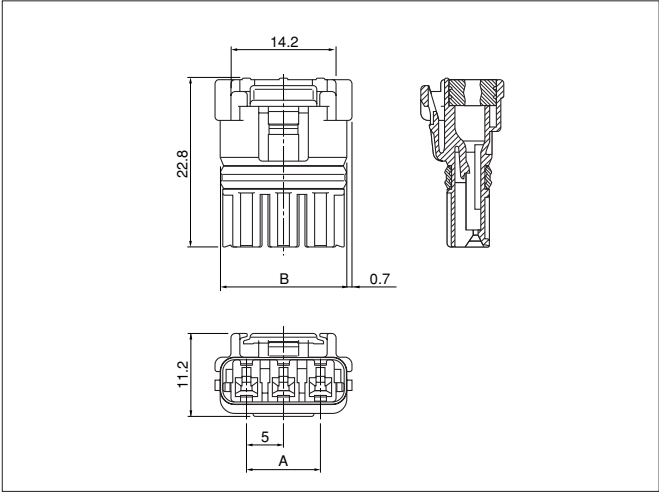
Material and Finish

Copper alloy, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SWPJR-21T-M0.5	AP-K2N	MKS-L	MK/SWPJR/T-21-05	APLMK SWPJR/T21-05
		—	—	—

Housing



Receptacle housing assembly

Circuits	Model No.	A	B	Q'ty / box
2	02R-WPJV-1-SMM	—	12.1	720
3	03R-WPJV-1-SMM	10.0	17.1	576

Material

Receptacle housing: Glass-filled PBT, UL94V-0, natural (white)
Seal ring: Silicon, green
Seal rubber plate: Silicon, green

RoHS compliance

<For reference> Polarizing key pattern

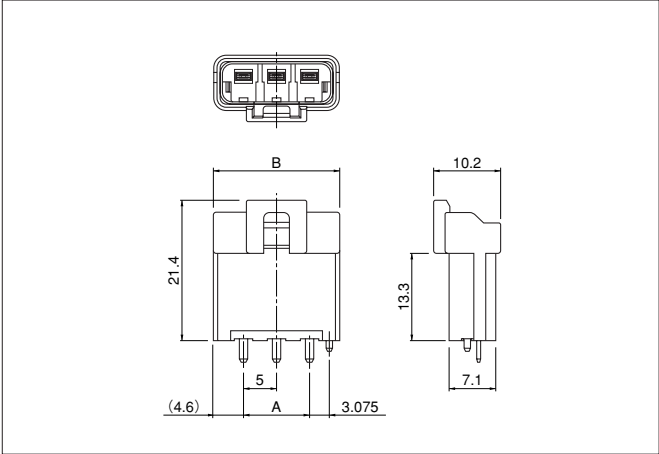
Key pattern No.1(Color: Natural): 02R-WPJV-1-SMM

Key pattern No.2(Color: Red): 02R-WPJV-2-RMM

Key pattern No.3(Color: Blue): 02R-WPJV-3-EMM

For availability, delivery and minimum order quantity, contact JST.

Header



Circuits	Model No.	A	B	Q'ty / bag
2	B02B-WPJSS-1	—	14.2	600
3	B03B-WPJSS-1	10.0	19.2	390

Material and Finish

Wafer: Glass-filled PBT, UL94V-0
Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

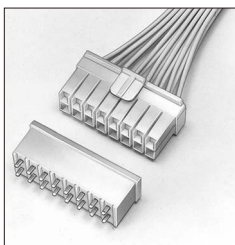
<For reference> Polarizing key pattern

Key pattern No.1(Color: Natural): B02B-WPJSS-1

Key pattern No.2(Color: Red): B02B-WPJRS-2

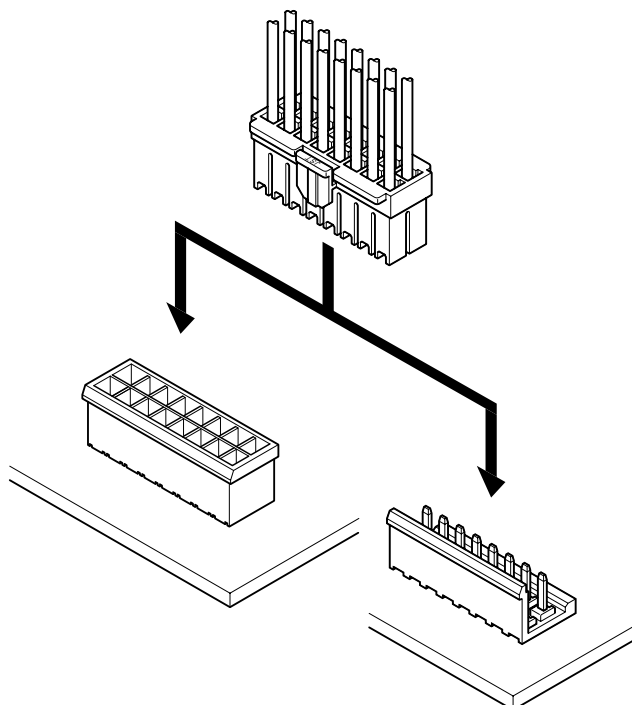
Key pattern No.3(Color: Blue): B02B-WPJES-3

For availability, delivery and minimum order quantity, contact JST.



XL CONNECTOR

5.0mm pitch/Disconnectable Crimp style connectors



The reliable XL connectors have been developed by utilizing the technology of JST's field proven VH and SM connectors. The XL connectors are being used in electric appliances, vending machines, and office automation equipment.

- **Reliable housing construction**
- **Easy contact insertion**
- **Box-shaped contact**
- **Two kinds of connections**

Specifications

- Current rating: 10A AC, DC (Refer to the table below.)
- Voltage rating: 150V AC, DC
- Temperature range: -25°C to +90°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/7m Ω max.
After environmental testing/10m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #26 to #16
- Applicable PC board thickness: 1.6mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Note:

The rated current varies depending on the number of circuits and the size of the wire to be connected by crimping.

Circuits	Wire size(AWG)					
	#16	#18	#20	#22	#24	#26
2	10	6	5	4	3	3
3	9	5	4	3	3	2
4	9	5	4	3	3	2
8	6	4	3	3	2	2
12	6	4	3	3	2	2
16	5	3	2	2	1	1

Current unit:A

Note:

Do not branch in parallel current which exceeds the rated current per circuit listed below. (Example: more than 10A in the case of a 2-circuit connector using AWG #16 wires.) If branched in parallel, current imbalance or other problems may develop.

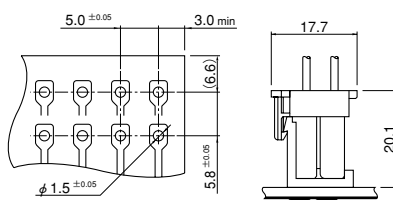
Standards

Recognized E60389

Certified LR20812

R75150

Locking header PC board layout (viewed from soldering side) and Assembly layout

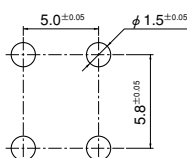


Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

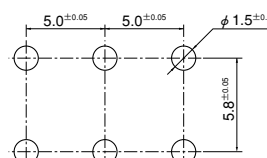
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Shrouded header PC board layout (viewed from component side)

**[HDS type]
Top entry type**



**[HDS type]
Side entry type**

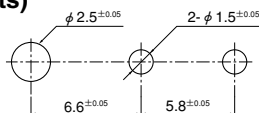


XL CONNECTOR

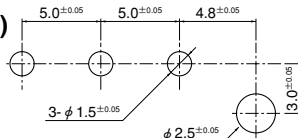
Shrouded header PC board layout (viewed from component side)

[HDB type] Top entry type

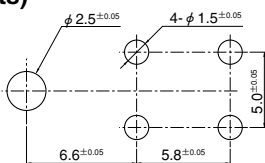
(2 circuits)



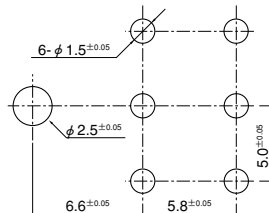
(3 circuits)



(4 circuits)

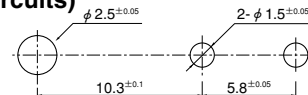


(6 circuits)

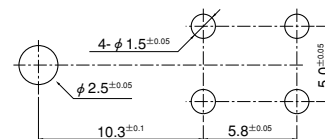


[HDB type] Side entry type

(2 circuits)



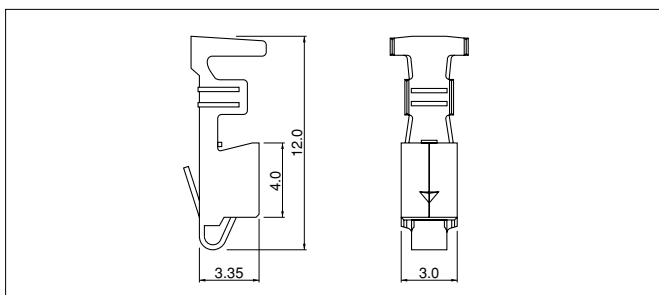
(4 circuits)



Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SXF-01T-P0.7	0.13~0.5	26~20	1.3~2.7	3,000
SXF-41T-P0.7	0.5 ~1.25	20~16	1.9~3.1	
	0.3×2~0.5×2	22×2~20×2	1.7×2~2.0×2	

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

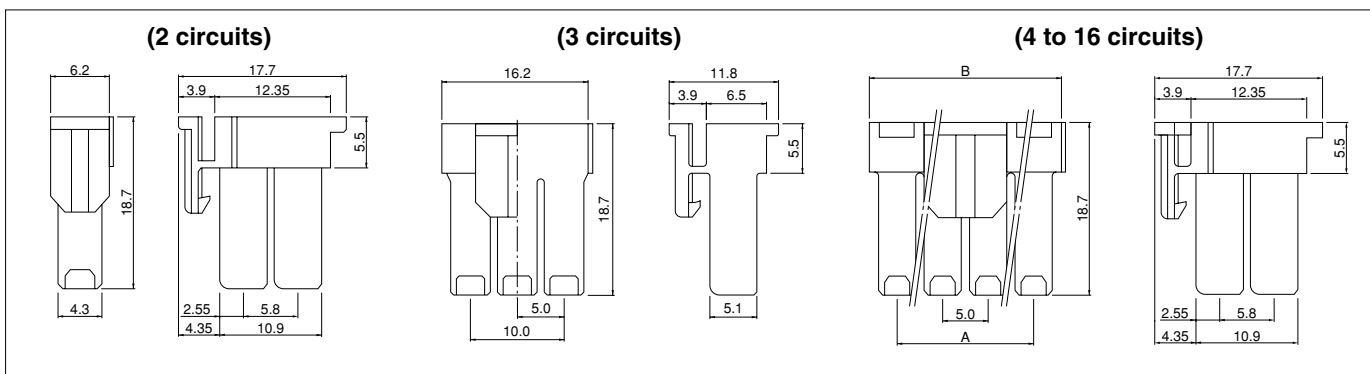
RoHS compliance

Note: Contact JST for brass products.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXF-01T-P0.7	AP-K2N	MKS-L	MK/SXF-01-07	APLMK SXF01-07

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXF-41T-P0.7	AP-K2N	MKS-L	MK/SXF-41-07	APLMK SXF41-07

Housing



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	XLP-02V	—	—	500
3	XLP-03V	—	—	500
4	XLP-04V	5.0	11.2	500
8	XLP-08V	15.0	21.2	500
12	XLP-12V	25.0	31.2	200
16	XLP-16V	35.0	41.2	200

Material

PA 66, UL94V-0, natural (white)

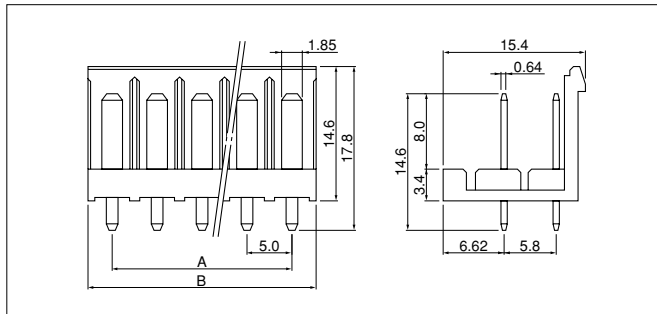
<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **XLP-02V-00**
(blank)...natural (white)
K...black R...red E...blue Y...yellow

RoHS compliance

2 JST

Locking header



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	B02P-XL	—	5.0	250
4	B04P-XL	5.0	10.0	200
8	B08P-XL	15.0	20.0	100
12	B12P-XL	25.0	30.0	50
16	B16P-XL	35.0	40.0	50

Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, natural (white)

RoHS compliance This product displays (LF)(SN) on a label.

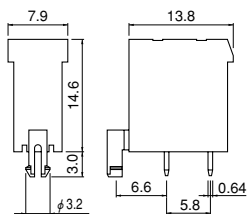
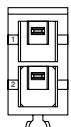
<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **B02P-XL-oo**
(blank)...natural (white) K...black R...red E...blue Y...yellow

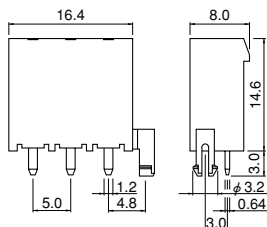
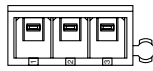
Shrouded header <HDB type>

Top entry type

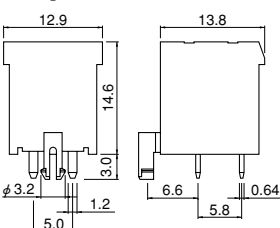
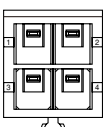
(2 circuits)



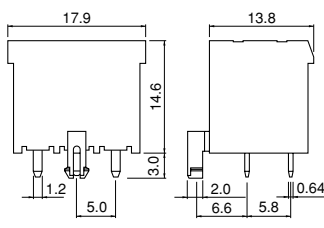
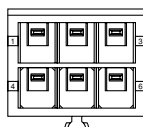
(3 circuits)



(4 circuits)

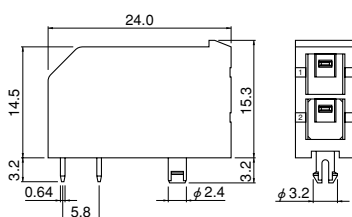
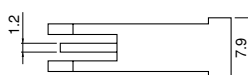


(6 circuits)

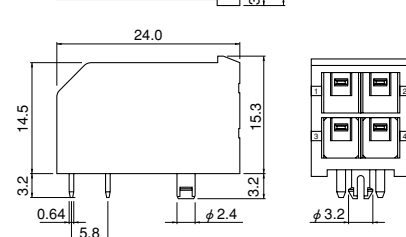
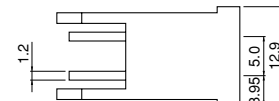


Side entry type

(2 circuits)



(4 circuits)



Circuits	Model No.		Q'ty / box	
	Top entry type	Side entry type	Top entry type	Side entry type
2	B02P-XL-HDB	S02P-XL-HDB	200	100
3	B03P-XL-HDB	—	200	—
4	B04P-XL-HDB	S04P-XL-HDB	200	100
6	B06P-XL-HDB	—	100	—

Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, natural (white)

RoHS compliance This product displays (LF)(SN) on a label.

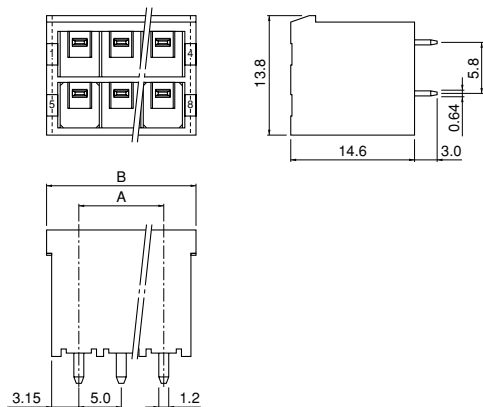
<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **B02P-XL-HDB-oo**, **S02P-XL-HDB-oo**
(blank)...natural (white)
K...black R...red E...blue Y...yellow
M...green H...gray N...brown D...orange
L...lemon yellow

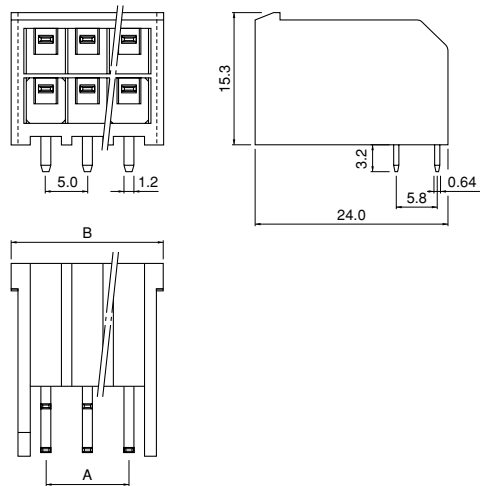
XL CONNECTOR

Shrouded header <HDS type>

Top entry type



Side entry type



Circuits	Model No.		Dimensions (mm)		Q'ty	
	Top entry type	Side entry type	A	B	Top/bag	Side/box
2	B02P-XL-HDS	—	—	7.9	200	—
4	B04P-XL-HDS	—	5.0	12.9	200	—
8	B08P-XL-HDS	S08P-XL-HDS	15.0	22.9	100	40
12	B12P-XL-HDS	S12P-XL-HDS	25.0	32.9	50	30
16	B16P-XL-HDS	S16P-XL-HDS	35.0	42.9	40	20

Material and Finish

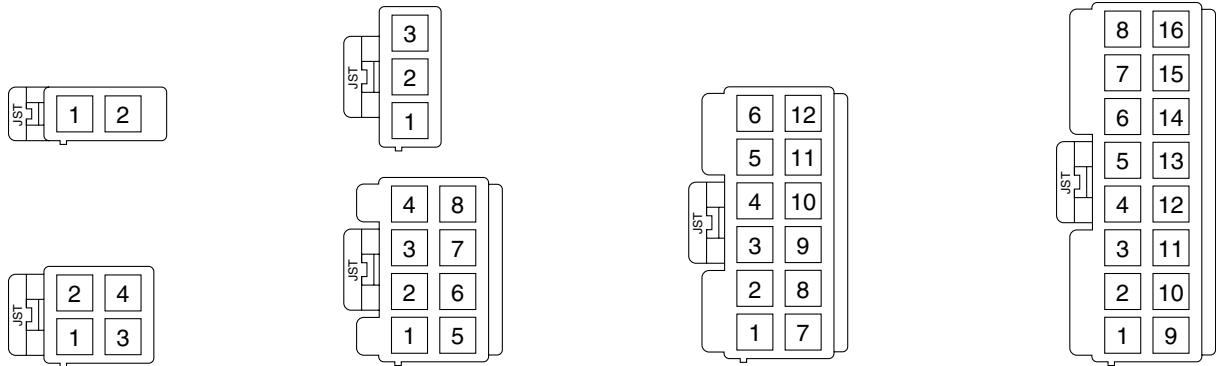
Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, natural (white)

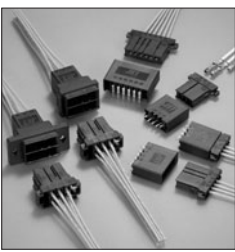
RoHS compliance This product displays (LF)(SN) on a label.

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **B08P-XL-HDS-oo** , **S08P-XL-HDS-oo**
(blank)...natural (white)
K...black R...red E...blue Y...yellow

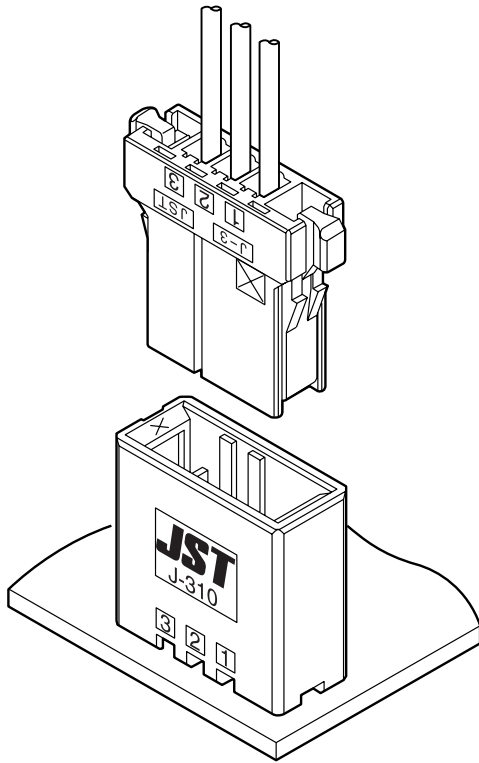
Contact position location numbers





JFA CONNECTOR J300 SERIES

3.81, 5.08mm pitch/Disconnectable Crimp style connectors(Wire-to-board/Wire-to-wire)



Connectors for signal circuit or power supply circuit, applicable to the factory automation, heavy electric machinery, and other industrial equipment in general. In spite of the various kinds of housings available, their contacts are designed to be common. The applicable tooling can be standardized.

- Double-spring construction
- Housing lances
- Secure locking method
- Recognition mark

Specifications

- Current rating: 15A AC, DC (Single circuit/AWG #14)
- Voltage rating: 310, 340 series [3.81mm pitch] 250V AC, DC
320, 350 series, 360T [5.08mm pitch] 600V AC, DC
- Temperature range: -55°C to +105°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/5mΩ max.
After environmental testing/10mΩ max.
- Insulation resistance: 1,000MΩ min.
- Withstanding voltage:
310, 340 series [3.81mm pitch] 1,500V AC/minute
320, 350 series, 360T [5.08mm pitch] 2,200V AC/minute
- Applicable wire: AWG #28 to #14 (0.08 to 2.0mm²)
- Applicable PC board thickness: 1.6 to 2.4mm

*Contact JST for details.

*Compliant with RoHS.

Current rating

Unit: A

Circuits	Wire size (AWG)							
	#14	#16	#18	#20	#22	#24	#26	#28
1	15.0	14.0	11.5	9.5	8.0	6.5	5.75	4.75
2	13.5	13.5	11.25	9.25	7.5	6.25	5.5	4.5
3	12.25	12.25	10.5	8.5	7.0	5.75	5.0	4.1
4	11.25	11.25	10.0	8.0	6.5	5.5	4.75	4.0
5	10.5	10.5	9.5	7.5	6.25	5.25	4.5	4.0
6	9.75	9.75	9.0	7.0	6.0	5.0	4.25	3.75
8	9.0	9.0	8.25	6.5	5.5	4.5	3.75	3.25
9	8.5	8.5	8.0	6.25	5.25	4.5	3.75	3.25
10	8.5	8.5	8.0	6.25	5.25	4.5	3.75	3.25
12	8.25	8.25	7.75	6.0	5.0	4.0	3.5	3.0
16	8.0	8.0	7.5	6.0	4.75	4.0	3.5	3.0
20	8.0	8.0	7.25	6.0	4.5	4.0	3.5	2.75

Standards

Recognized E60389

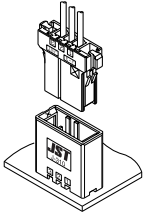
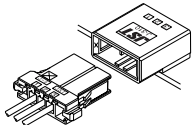
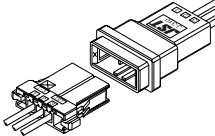
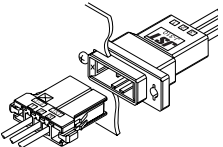
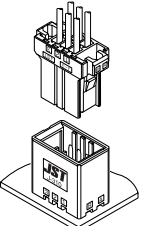
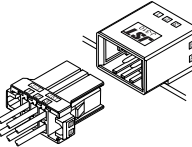
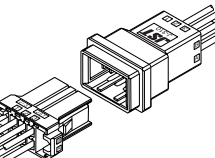
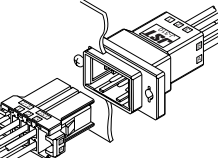
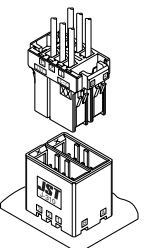
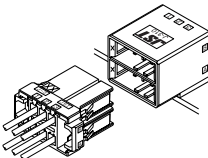
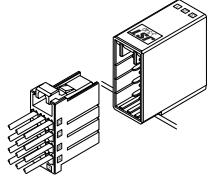
Certified LR20812

R50133261

JFA CONNECTOR/J300 SERIES

List of J300 series products

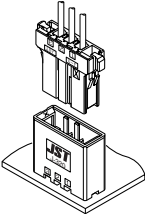
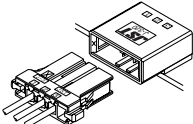
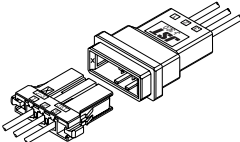
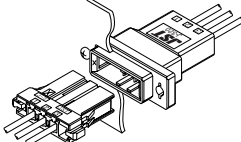
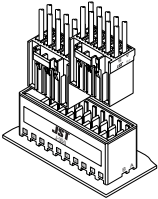
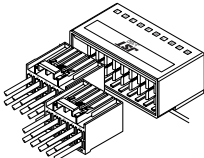
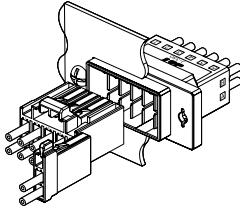
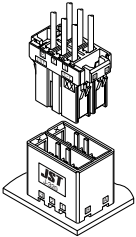
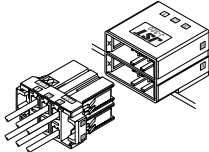
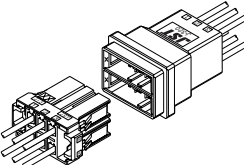
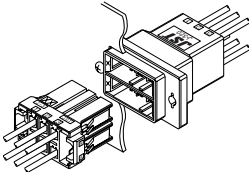
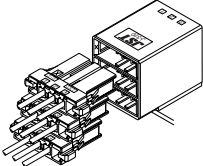
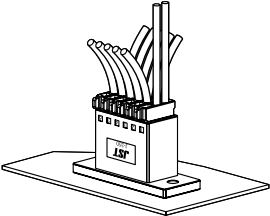
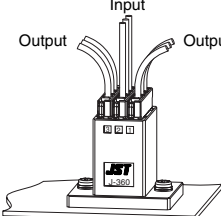
3.81mm pitch / Voltage rating 250V AC, DC

Type	Wire-to-board		Wire-to-wire	
	Top entry type	Side entry type	Free hanging type	Panel mounting type
J310S Single-row type				
Circuits	3, 4, 5, 6, 8, 10	3, 4, 5, 6, 8, 10	3, 5, 8, 10	3, 5, 8, 10
J310D Double-row type [line pitch 5.08mm]				
Circuits	6, 8, 10, 12, 16, 20	6, 8, 10, 12, 16, 20	6, 8, 10, 12, 16, 20	6, 8, 10, 12, 16, 20
J310M Double-row module type [line pitch 7.62mm]				
Circuits	6	6		
J340F Four-row type [line pitch 5.08mm]				
Circuits		12, 20		
—				
Circuits				

JFA CONNECTOR/J300 SERIES

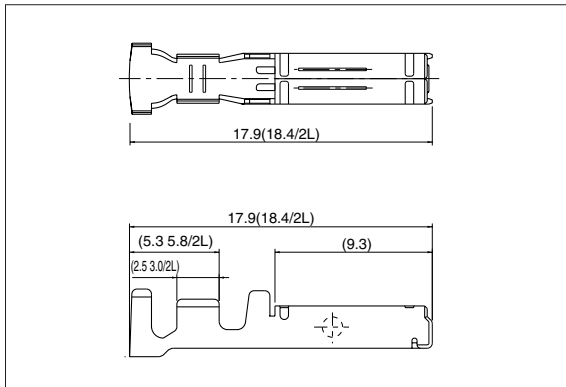
List of J300 series products

5.08mm pitch / Voltage rating 600V AC, DC

Wire-to-board		Wire-to-wire		Type
Top entry type	Side entry type	Free hanging type	Panel mounting type	
				J320S Single-row type
2, 3, 4, 5, 6	2, 3, 4, 5, 6	1, 2, 3, 4	1, 2, 3, 4	Circuits
				J350D Double-row type [line pitch 5.08mm]
12, 20	12, 20		12	Circuits
				J320M Double-row module type [line pitch 7.62mm]
6,10,12	6, 8,10,12	6,12	6,12, 20	Circuits
				J320T Triple-row module type [line pitch 7.62mm]
	9			Circuits
Double-row common type (J350DC)		Triple-row common type (J360T)		Type
	(line pitch 5.08mm)		(line pitch 6.5mm)	
12		9, 18, 24		Circuits

JFA CONNECTOR/J300 SERIES

Receptacle contact



Model No.		Applicable wire			Insulation O.D. (mm)	Q'ty	
Strip contact	Loose piece	Nominal	mm ²	AWG#		reel	Box(Loose piece)
SF3F-002 (*) -P2.0	BF3F-002 (*) -P2.0	S	0.08~0.20	28~24	0.8~1.4	3,700	1,000
SF3F-01 (*) -P2.0	BF3F-01 (*) -P2.0	M	0.20~0.50	24~20	1.2~2.6	3,700	1,000
SF3F-41 (*) -P2.0	LF3F-41 (*) -P2.0	L	0.50~1.25	20~16	1.8~2.8	3,200	1,000
SF3F-71 () -P2.0	*BF3F-71 (*) -P2.0	2L	1.25~2.0	16~14	2.4~3.4	3,200	1,000

Material and Finish

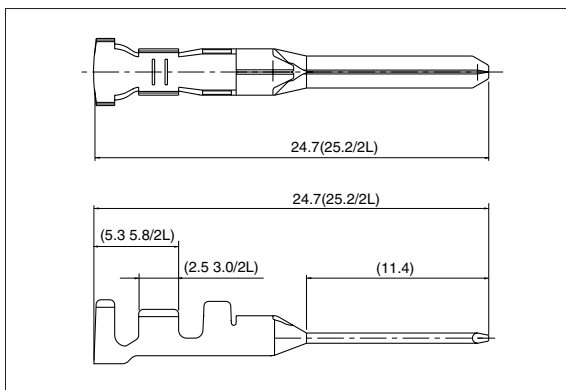
Copper alloy (superior conductivity), nickel-underplated, selective gold-plated tin-plated (reflow treatment)

RoHS compliance

Note: 1. Finish (*): GF...Nickel-undercoated, 0.38 μm selective gold-plated
 GL...Nickel-undercoated, 0.76 μm selective gold-plated
 T.....Tin-plated

2. *Marked products are not CSA/TÜV approved.

Tab contact



Model No.		Applicable wire			Insulation O.D. (mm)	Q'ty	
Strip contact	Loose piece	Nominal	mm ²	AWG#		reel	Box(Loose piece)
Under planning	Under planning	S	0.08~0.20	28~24	0.8~1.4	—	—
SF3M-01 (*) -M2.0N	BF3M-01 (*) -M2.0N	M	0.20~0.50	24~20	1.2~2.6	3,500	1,000
SF3M-41 (*) -M2.0N	LF3M-41 (*) -M2.0N	L	0.50~1.25	20~16	1.8~2.8	3,300	1,000
SF3M-71 () -M2.0N	*BF3M-71 (*) -M2.0N	2L	1.25~2.0	16~14	2.4~3.4	3,200	1,000

Material and Finish

Copper alloy (superior conductivity), nickel-underplated, selective gold-plated tin-plated (reflow treatment)

RoHS compliance

Note: 1. Finish (*): GF...Nickel-undercoated, 0.38 μm selective gold-plated
 GL...Nickel-undercoated, 0.76 μm selective gold-plated
 T.....Tin-plated

2. *Marked products are not CSA/TÜV approved.

Crimping machine, Applicator

Strip contact Model No.	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies	Hand crimp tools
SF3F-002 (*) -P2.0	AP-K2N	MKS-L	MK/SF3F-002-20	APLMK SF3F/M002-20	YRK-8821
SF3F-01 (*) -P2.0			MK/SF3F/M-01-20	APLMK SF3F/M01-20	YRK-8811
SF3M-01 (*) -M2.0N					
SF3F-41 (*) -P2.0			MK/SF3F/M-41-20	APLMK SF3F/M41-20	YRK-8801
SF3M-41 (*) -M2.0N					
SF3F-71 (*) -P2.0			MK/SF3F/M-71-20	APLMK SF3F/M71-20	YRK-1071
SF3M-71 (*) -M2.0N					

Note: Finish (*): GF...Nickel-undercoated, 0.38 μm selective gold-plated
 GL...Nickel-undercoated, 0.76 μm selective gold-plated
 T.....Tin-plated

Loose piece	Hand crimp tools
BF3F-002 (*) -P2.0	YRF-882
BF3F-01 (*) -P2.0	YRF-881
BF3M-01 (*) -M2.0N	
LF3F-41 (*) -P2.0	YRF-880
LF3M-41 (*) -M2.0N	
BF3F-71 (*) -P2.0	YRF-1070
BF3M-71 (*) -M2.0N	YRF-1071

Note: Finish (*): GF...Nickel-undercoated, 0.38 μm selective gold-plated
 GL...Nickel-undercoated, 0.76 μm selective gold-plated
 T.....Tin-plated

- Extraction tool for J300 series: EJ-JFAJ3
- Refer to page 15, 16 for details of YRK series hand crimping tools that uses a strip contact.

Recognition mark

• Plating of the contact

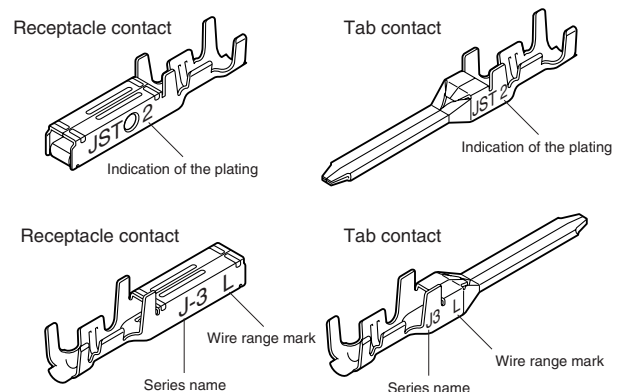
Each contact has a marking on its side so that the type or thickness of the plating is recognized.

- ex. 2 ... gold-plated 0.38 μm thickness
 3 ... gold-plated 0.76 μm thickness
 5 ... tin-plated

• Common marking on the contact and its application tools

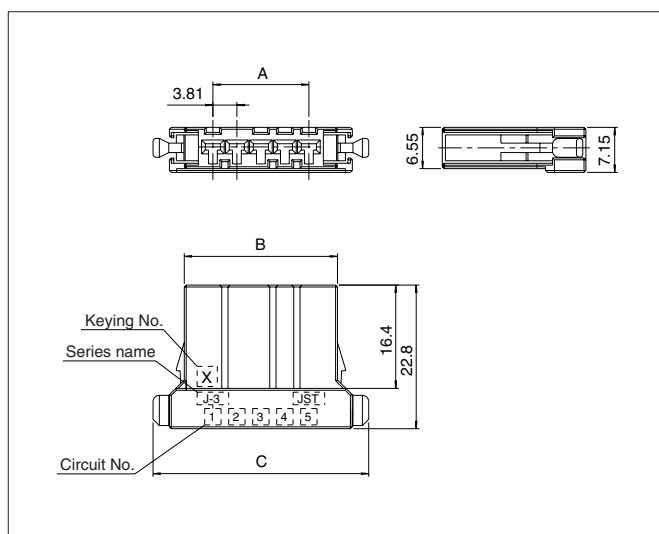
In order to avoid incorrect combination of the hand crimp tools or extraction tools and the contacts, the series name (for example J-3) and wire range mark (S, M, L, 2L) are shown on both the tools and the contacts.

For example J-3 S.....AWG #28 ~ #24
 M.....AWG #24 ~ #20
 L.....AWG #20 ~ #16
 2L....AWG #16 ~ #14



J300 SERIES/J310S

Receptacle housing



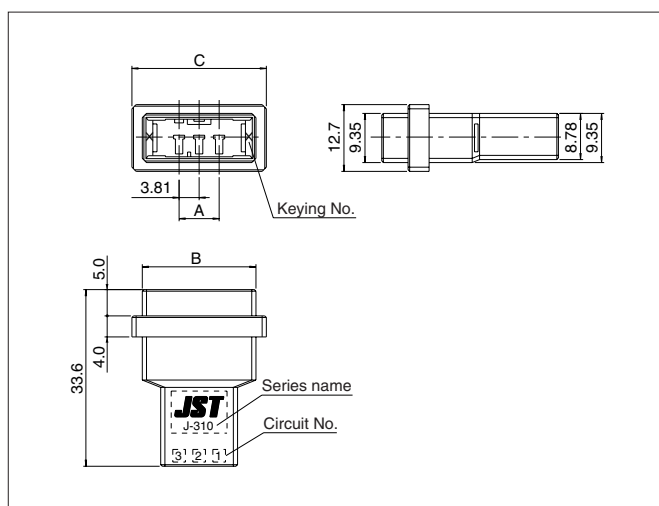
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
3	X	F31FSS-03V-KX	7.62	16.70	26.62	200
	Y	F31FSS-03V-KY	7.62	16.70	26.62	200
4	X	F31FSS-04V-KX	11.43	20.51	30.43	200
	Y	F31FSS-04V-KY	11.43	20.51	30.43	200
5	X	F31FSS-05V-KX	15.24	24.32	34.24	200
	Y	F31FSS-05V-KY	15.24	24.32	34.24	200
6	X	F31FSS-06V-KX	19.05	28.13	38.05	200
	Y	F31FSS-06V-KY	19.05	28.13	38.05	200
8	X	F31FSS-08V-KX	26.67	35.75	45.67	100
	Y	F31FSS-08V-KY	26.67	35.75	45.67	100
10	X	F31FSS-10V-KX	34.29	43.37	53.29	100
	Y	F31FSS-10V-KY	34.29	43.37	53.29	100

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing (Free hanging type)



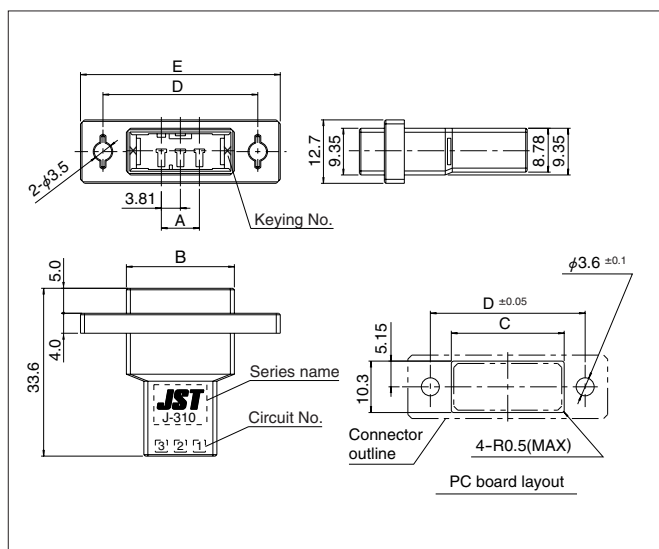
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
3	X	F31MSF-03V-KX	7.62	21.62	25.57	200
	Y	F31MSF-03V-KY	7.62	21.62	25.57	200
5	X	F31MSF-05V-KX	15.24	29.24	33.19	200
	Y	F31MSF-05V-KY	15.24	29.24	33.19	200
8	X	F31MSF-08V-KX	26.67	40.67	44.62	100
	Y	F31MSF-08V-KY	26.67	40.67	44.62	100
10	X	F31MSF-10V-KX	34.29	48.29	52.24	100
	Y	F31MSF-10V-KY	34.29	48.29	52.24	100

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing (Panel mounting type)



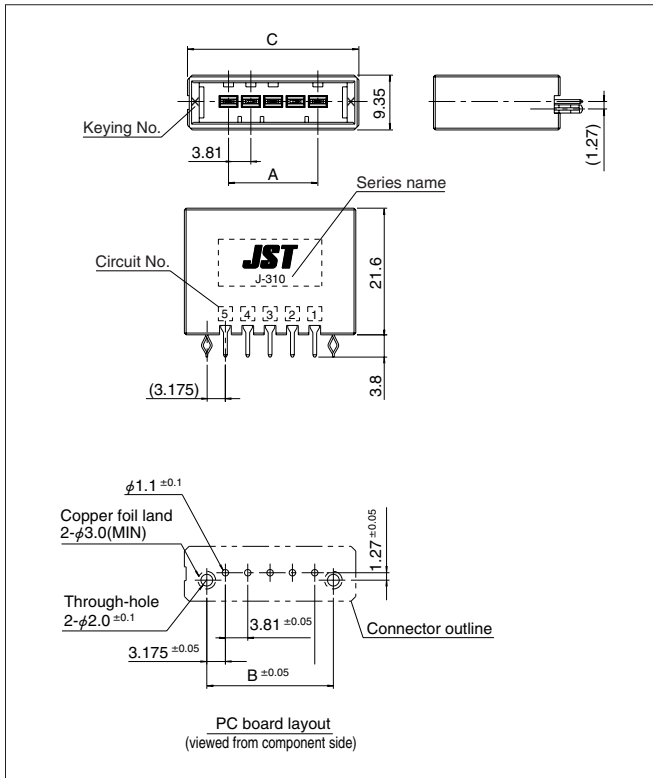
Circuits	Keying	Model No.	Dimensions (mm)					Q'ty / bag
			A	B	C	D	E	
3	X	F31MSP-03V-KX	7.62	21.62	22.60	31.00	40.00	200
	Y	F31MSP-03V-KY	7.62	21.62	22.60	31.00	40.00	200
5	X	F31MSP-05V-KX	15.24	29.24	30.20	38.00	47.00	200
	Y	F31MSP-05V-KY	15.24	29.24	30.20	38.00	47.00	200
8	X	F31MSP-08V-KX	26.67	40.67	41.60	50.00	59.00	100
	Y	F31MSP-08V-KY	26.67	40.67	41.60	50.00	59.00	100
10	X	F31MSP-10V-KX	34.29	48.29	49.20	58.00	67.00	100
	Y	F31MSP-10V-KY	34.29	48.29	49.20	58.00	67.00	100

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Header (Top entry type)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
3	X	B03B-F31SK-GGXR	7.62	13.97	21.62	220
	Y	B03B-F31SK-GGYR	7.62	13.97	21.62	220
4	X	B04B-F31SK-GGXR	11.43	17.78	25.43	180
	Y	B04B-F31SK-GGYR	11.43	17.78	25.43	180
5	X	B05B-F31SK-GGXR	15.24	21.59	29.24	160
	Y	B05B-F31SK-GGYR	15.24	21.59	29.24	160
6	X	B06B-F31SK-GGXR	19.05	25.40	33.05	140
	Y	B06B-F31SK-GGYR	19.05	25.40	33.05	140
8	X	B08B-F31SK-GGXR	26.67	33.02	40.67	120
	Y	B08B-F31SK-GGYR	26.67	33.02	40.67	120
10	X	B10B-F31SK-GGXR	34.29	40.64	48.29	100
	Y	B10B-F31SK-GGYR	34.29	40.64	48.29	100

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

Housing: Glass-filled PBT, UL94V-0, black

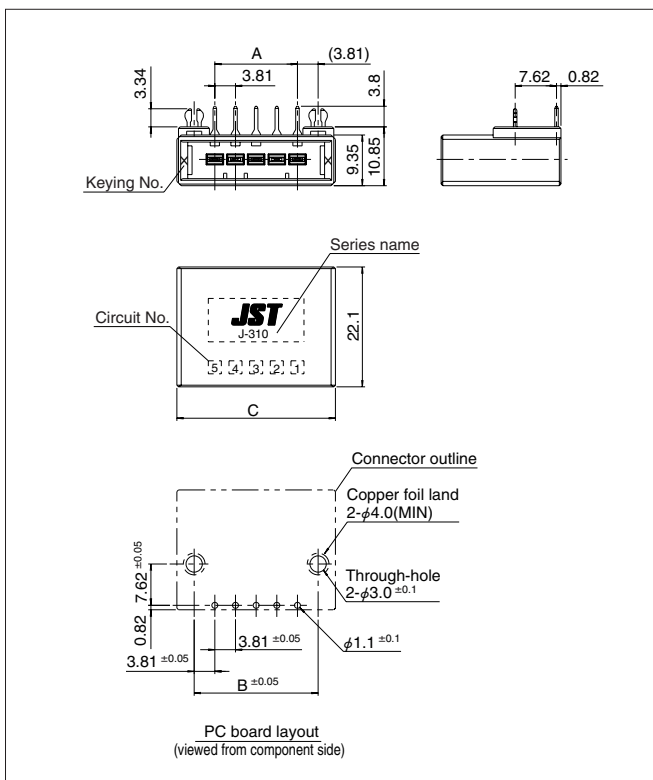
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance This product displays (LF)(AU) on a label.

Note: 1. Contact JST for the headers supplied in magazine stick.

2. Contact JST for 0.76 μm gold-plated product and tin-plated product.

Header (Side entry type)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
3	X	S03B-F31SK-GGXR	7.62	15.24	21.62	165
	Y	S03B-F31SK-GGYR	7.62	15.24	21.62	165
4	X	S04B-F31SK-GGXR	11.43	19.05	25.43	135
	Y	S04B-F31SK-GGYR	11.43	19.05	25.43	135
5	X	S05B-F31SK-GGXR	15.24	22.86	29.24	120
	Y	S05B-F31SK-GGYR	15.24	22.86	29.24	120
6	X	S06B-F31SK-GGXR	19.05	26.67	33.05	105
	Y	S06B-F31SK-GGYR	19.05	26.67	33.05	105
8	X	S08B-F31SK-GGXR	26.67	34.29	40.67	90
	Y	S08B-F31SK-GGYR	26.67	34.29	40.67	90
10	X	S10B-F31SK-GGXR	34.29	41.91	48.29	75
	Y	S10B-F31SK-GGYR	34.29	41.91	48.29	75

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

Housing: Glass-filled PBT, UL94V-0, black

Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

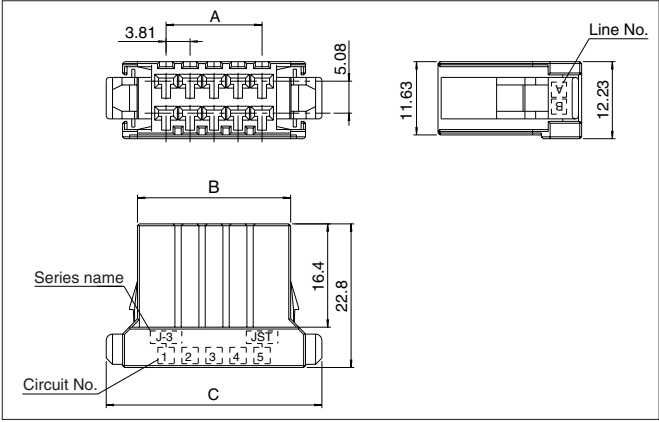
RoHS compliance This product displays (LF)(AU) on a label.

Note: 1. Contact JST for the headers supplied in magazine stick.

2. Contact JST for 0.76 μm gold-plated product and tin-plated product.

J300 SERIES/J310D

Receptacle housing



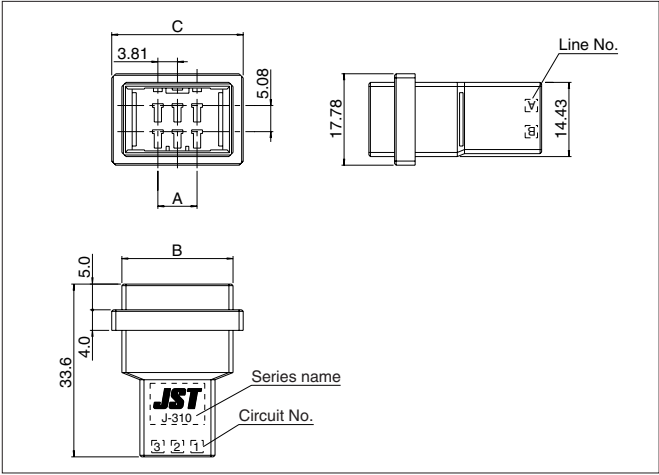
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
6	—	F31FDS-06V-K	7.62	16.70	26.62	200
8	—	F31FDS-08V-K	11.43	20.51	30.43	100
10	—	F31FDS-10V-K	15.24	24.32	34.24	100
12	—	F31FDS-12V-K	19.05	28.13	38.05	100
16	—	F31FDS-16V-K	26.67	35.75	45.67	100
20	—	F31FDS-20V-K	34.29	43.37	53.29	100

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing (Free hanging type)



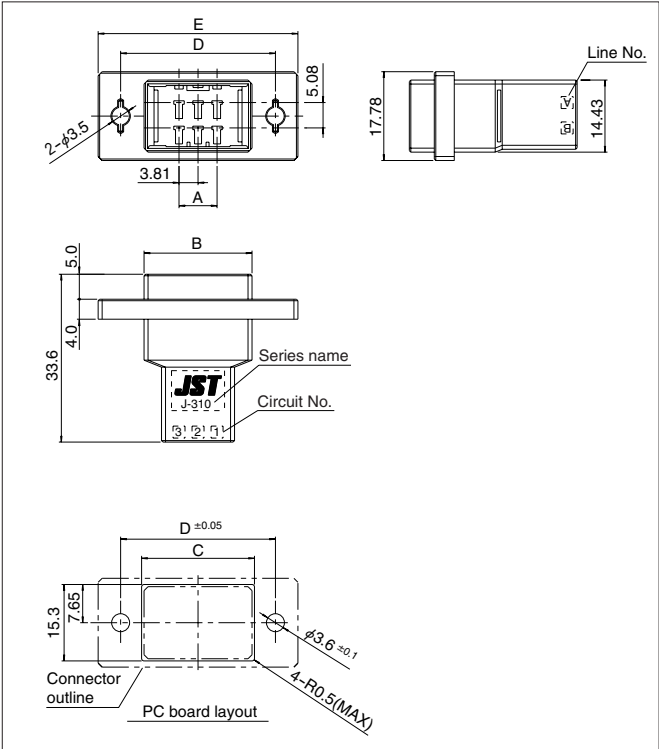
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
6	—	F31MDF-06V-K	7.62	21.62	25.57	200
8	—	F31MDF-08V-K	11.43	25.43	29.38	100
10	—	F31MDF-10V-K	15.24	29.24	33.19	100
12	—	F31MDF-12V-K	19.05	33.05	37.00	100
16	—	F31MDF-16V-K	26.67	40.67	44.62	100
20	—	F31MDF-20V-K	34.29	48.29	52.24	100

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing (Panel mounting type)



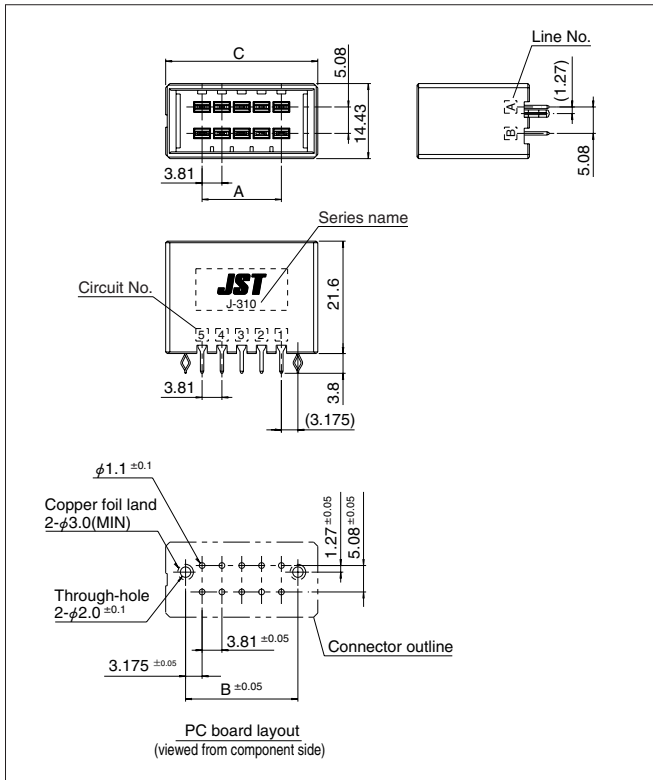
Circuits	Keying	Model No.	Dimensions (mm)					Q'ty / bag
			A	B	C	D	E	
6	—	F31MDP-06V-K	7.62	21.62	22.60	31.00	40.00	200
8	—	F31MDP-08V-K	11.43	25.43	26.40	34.50	43.50	100
10	—	F31MDP-10V-K	15.24	29.24	30.20	38.00	47.00	100
12	—	F31MDP-12V-K	19.05	33.05	34.00	42.00	51.00	100
16	—	F31MDP-16V-K	26.67	40.67	41.60	50.00	59.00	100
20	—	F31MDP-20V-K	34.29	48.29	49.20	58.00	67.00	100

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Header (Top entry type)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
6	—	B06B-F31DK-GGR	7.62	13.97	21.62	132
8	—	B08B-F31DK-GGR	11.43	17.78	25.43	108
10	—	B10B-F31DK-GGR	15.24	21.59	29.24	96
12	—	B12B-F31DK-GGR	19.05	25.40	33.05	84
16	—	B16B-F31DK-GGR	26.67	33.02	40.67	72
20	—	B20B-F31DK-GGR	34.29	40.64	48.29	60

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

Housing: Glass-filled PBT, UL94V-0, black

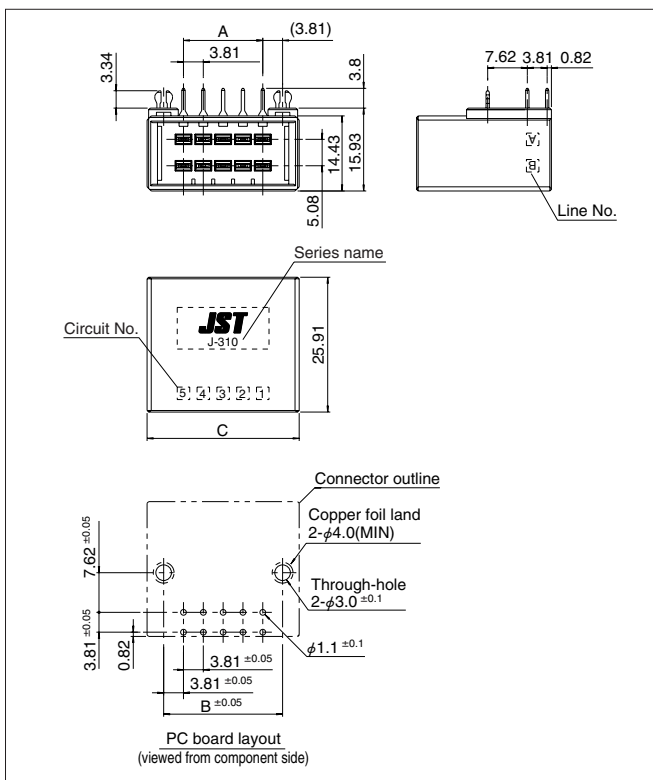
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance This product displays (LF) (AU) on a label.

Note: 1. Contact JST for the headers supplied in magazine stick.

2. Contact JST for 0.76 μm gold-plated product and tin-plated product.

Header (Side entry type)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
6	—	S06B-F31DK-GGR	7.62	15.24	21.62	88
8	—	S08B-F31DK-GGR	11.43	19.05	25.43	72
10	—	S10B-F31DK-GGR	15.24	22.86	29.24	64
12	—	S12B-F31DK-GGR	19.05	26.67	33.05	56
16	—	S16B-F31DK-GGR	26.67	34.29	40.67	48
20	—	S20B-F31DK-GGR	34.29	41.91	48.29	40

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

Housing: Glass-filled PBT, UL94V-0, black

Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

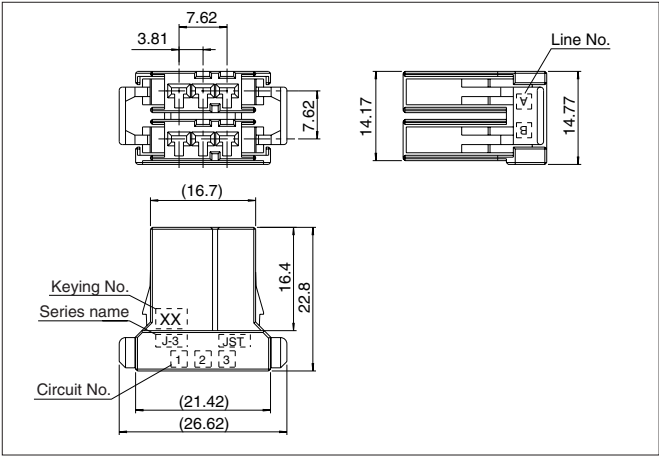
RoHS compliance This product displays (LF) (AU) on a label.

Note: 1. Contact JST for the headers supplied in magazine stick.

2. Contact JST for 0.76 μm gold-plated product and tin-plated product.

J300 SERIES/J310M

Receptacle housing

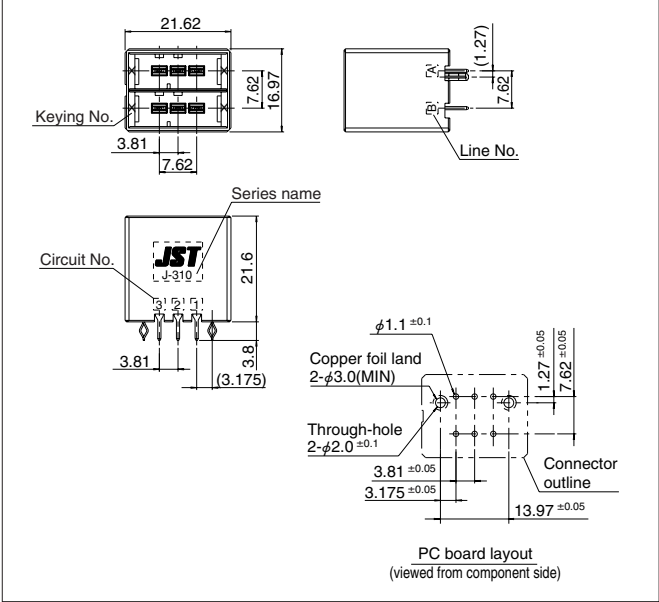


Circuits	Keying	Model No.	Q'ty / box
6	XX	F31FMS-06V-KXX	100
	YY	F31FMS-06V-KYY	100
	XY	F31FMS-06V-KXY	100

Material			
Glass-filled PBT, UL94V-0, black			

RoHS compliance

Header (Top entry type)

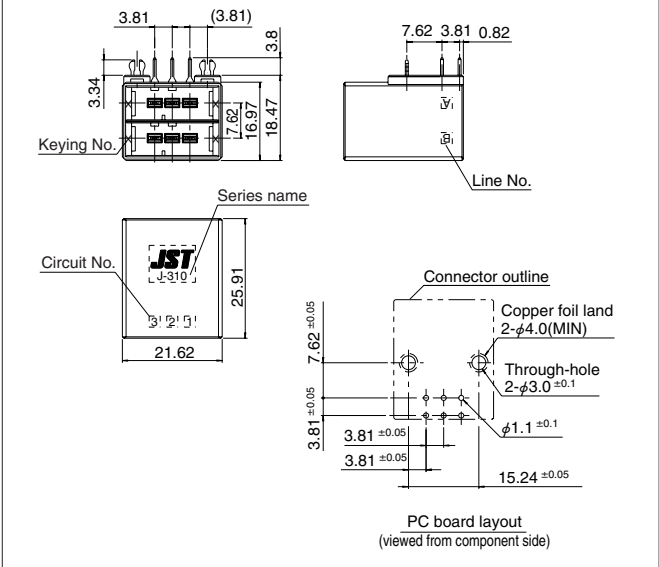


Circuits	Keying	Model No.	Q'ty / box
6	XX	B06B-F31MK-GGXXR	132
	YY	B06B-F31MK-GGYR	132
	XY	B06B-F31MK-GGXYR	132

Material and Finish			
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated			
Housing: Glass-filled PBT, UL94V-0, black			
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated			

RoHS compliance This product displays (LF)(AU) on a label.
Note: 1. Contact JST for the headers supplied in magazine stick.
2. Contact JST for 0.76 μm gold-plated product and tin-plated product.

Header (Side entry type)



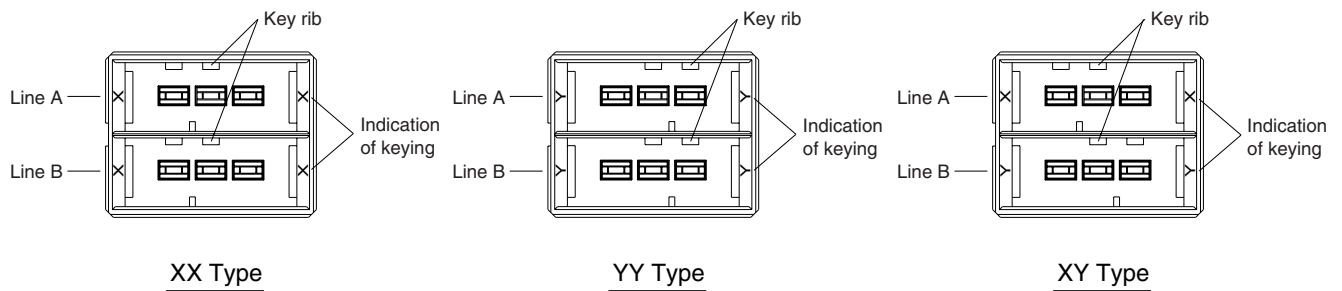
Circuits	Keying	Model No.	Q'ty / box
6	XX	S06B-F31MK-GGXXR	88
	YY	S06B-F31MK-GGYR	88
	XY	S06B-F31MK-GGXYR	88

Material and Finish			
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated			
Housing: Glass-filled PBT, UL94V-0, black			
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated			

RoHS compliance This product displays (LF)(AU) on a label.
Note: 1. Contact JST for the headers supplied in magazine stick.
2. Contact JST for 0.76 μm gold-plated product and tin-plated product.

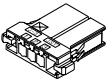
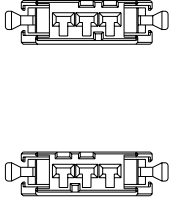


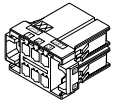
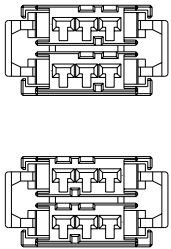

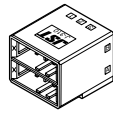
Keying

J310M series have mis-insertion preventive keying.
Available in 3 types – XX type, YY type and XY type.
(Headers viewed from the mating side are shown below.)



List of combinations

With the combination of the J310M headers and the J310M/J310S (3 circuits) receptacle housings, the following modular combinations are possible.

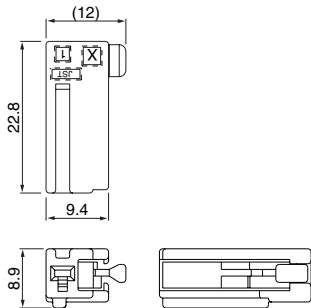
Receptacle housing		Header			
		Top entry type		Side entry type	
Single-row 3 circuits (J310S) 	<u>X Type</u> F31FSS-03V-KX		Single-row 3 circuits (J310S) 	Single-row 3 circuits (J310S) 	<u>X Type</u> S03B-F31SK-GGX■
	<u>Y Type</u> F31FSS-03V-KY		<u>Y Type</u> B03B-F31SK-GGY■	<u>Y Type</u> S03B-F31SK-GGY■	<u>Y Type</u> S03B-F31SK-GGY■
Double-row 6 circuits (J310M) 	<u>XX Type</u> F31FMS-06V-KXX		Double-row 6 circuits (J310M) 	Double-row 6 circuits (J310M) 	<u>XX Type</u> S06B-F31MK-GGX■
	<u>YY Type</u> F31FMS-06V-KYY		<u>YY Type</u> B06B-F31MK-GGY■	<u>YY Type</u> S06B-F31MK-GGY■	<u>YY Type</u> S06B-F31MK-GGY■
	<u>XY Type</u> F31FMS-06V-KXY		<u>XY Type</u> B06B-F31MK-GGY■	<u>XY Type</u> S06B-F31MK-GGY■	<u>XY Type</u> S06B-F31MK-GGY■

Note: Packaging method is indicated in ■. (R=Tray)

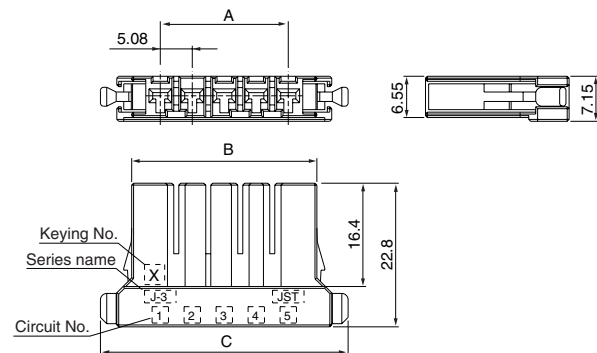
J300 SERIES/J320S

Receptacle housing

• Single circuit



• 2 to 6 circuits



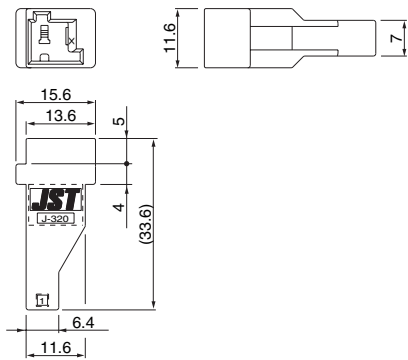
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
1	X	F32FSS-01V-KX	—	—	—	200
	Y	F32FSS-01V-KY	—	—	—	200
2	X	F32FSS-02V-KX	5.08	14.16	24.08	200
	Y	F32FSS-02V-KY	5.08	14.16	24.08	200
3	X	F32FSS-03V-KX	10.16	19.24	29.16	200
	Y	F32FSS-03V-KY	10.16	19.24	29.16	200
4	X	F32FSS-04V-KX	15.24	24.32	34.24	200
	Y	F32FSS-04V-KY	15.24	24.32	34.24	200
5	X	F32FSS-05V-KX	20.32	29.40	39.32	200
	Y	F32FSS-05V-KY	20.32	29.40	39.32	200
6	X	F32FSS-06V-KX	25.40	34.48	44.40	100
	Y	F32FSS-06V-KY	25.40	34.48	44.40	100
Material						

Glass-filled PBT, UL94V-0, black

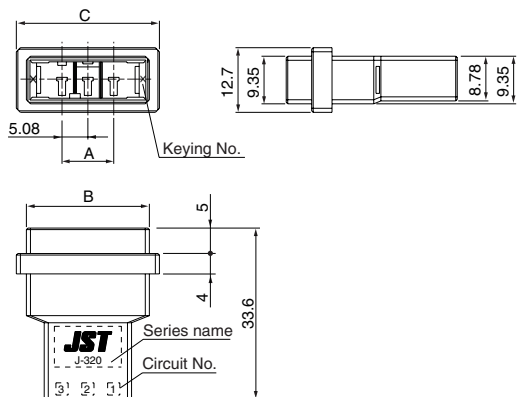
RoHS compliance

Tab housing (Free hanging type)

• Single circuit



• 2 to 4 circuits



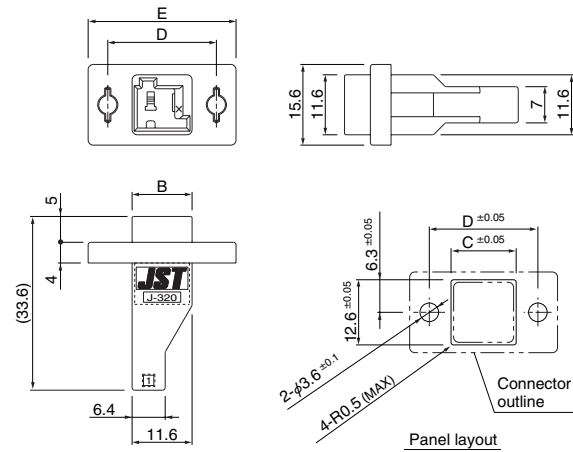
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
1	X	F32MSF-01V-KX	—	—	—	150
	Y	F32MSF-01V-KY	—	—	—	150
2	X	F32MSF-02V-KX	5.08	19.08	23.03	200
	Y	F32MSF-02V-KY	5.08	19.08	23.03	200
3	X	F32MSF-03V-KX	10.16	24.16	28.11	200
	Y	F32MSF-03V-KY	10.16	24.16	28.11	200
4	X	F32MSF-04V-KX	15.24	29.24	33.19	200
	Y	F32MSF-04V-KY	15.24	29.24	33.19	200
Material						

Glass-filled PBT, UL94V-0, black

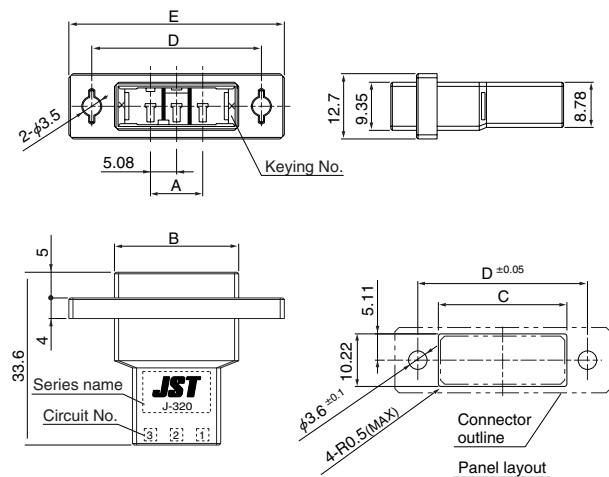
RoHS compliance

Tab housing (Panel mounting type)

• Single circuit



• 2 to 4 circuits



Circuits	Keying	Model No.	Dimensions (mm)					Q'ty / bag
			A	B	C	D	E	
1	X	F32MSP-01V-KX	—	11.60	12.60	21.00	28.60	150
	Y	F32MSP-01V-KY	—	11.60	12.60	21.00	28.60	150
2	X	F32MSP-02V-KX	5.08	19.08	20.00	28.00	36.83	200
	Y	F32MSP-02V-KY	5.08	19.08	20.00	28.00	36.83	200
3	X	F32MSP-03V-KX	10.16	24.16	25.00	33.00	41.91	200
	Y	F32MSP-03V-KY	10.16	24.16	25.00	33.00	41.91	200
4	X	F32MSP-04V-KX	15.24	29.24	30.00	38.00	46.99	200
	Y	F32MSP-04V-KY	15.24	29.24	30.00	38.00	46.99	200

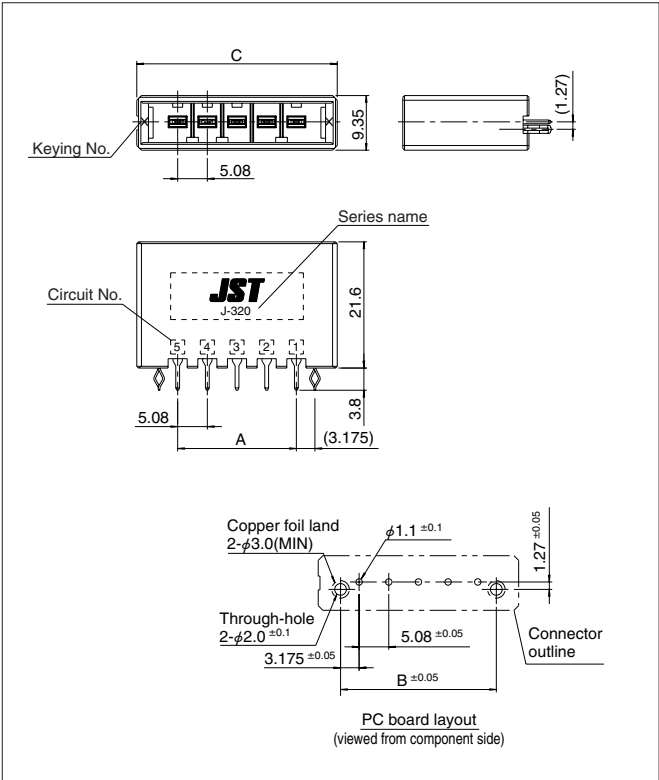
Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

J300 SERIES/J320S

Header (Top entry type)



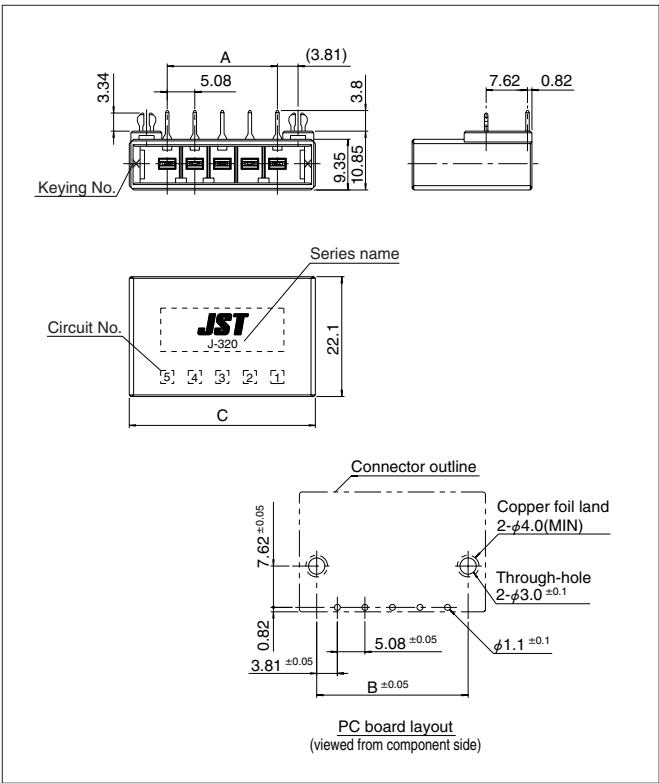
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
2	X	B02B-F32SK-GGX ^R	5.08	11.43	19.08	240
	Y	B02B-F32SK-GGY ^R	5.08	11.43	19.08	240
3	X	B03B-F32SK-GGX ^R	10.16	16.51	24.16	200
	Y	B03B-F32SK-GGY ^R	10.16	16.51	24.16	200
4	X	B04B-F32SK-GGX ^R	15.24	21.59	29.24	160
	Y	B04B-F32SK-GGY ^R	15.24	21.59	29.24	160
5	X	B05B-F32SK-GGX ^R	20.32	26.67	34.32	140
	Y	B05B-F32SK-GGY ^R	20.32	26.67	34.32	140
6	X	B06B-F32SK-GGX ^R	25.40	31.75	39.40	120
	Y	B06B-F32SK-GGY ^R	25.40	31.75	39.40	120

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance This product displays (LF)(AU) on a label.
Note: 1. Contact JST for the headers supplied in magazine stick.
2. Contact JST for 0.76 μ m gold-plated product and tin-plated product.

Header (Side entry type)



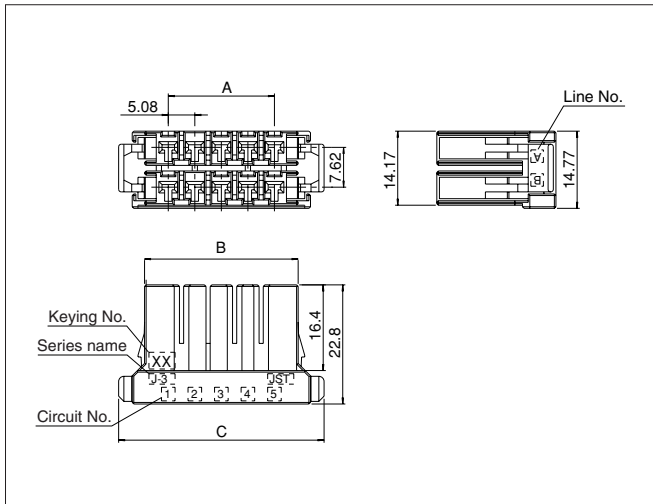
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
2	X	S02B-F32SK-GGX ^R	5.08	12.70	19.08	180
	Y	S02B-F32SK-GGY ^R	5.08	12.70	19.08	180
3	X	S03B-F32SK-GGX ^R	10.16	17.78	24.16	150
	Y	S03B-F32SK-GGY ^R	10.16	17.78	24.16	150
4	X	S04B-F32SK-GGX ^R	15.24	22.86	29.24	120
	Y	S04B-F32SK-GGY ^R	15.24	22.86	29.24	120
5	X	S05B-F32SK-GGX ^R	20.32	27.94	34.32	105
	Y	S05B-F32SK-GGY ^R	20.32	27.94	34.32	105
6	X	S06B-F32SK-GGX ^R	25.40	33.02	39.40	90
	Y	S06B-F32SK-GGY ^R	25.40	33.02	39.40	90

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance This product displays (LF)(AU) on a label.
Note: 1. Contact JST for the headers supplied in magazine stick.
2. Contact JST for 0.76 μ m gold-plated product and tin-plated product.

Receptacle housing



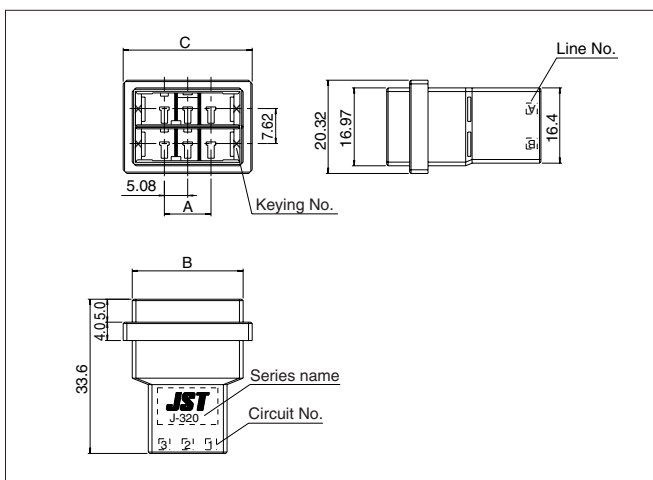
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
6	XX	F32FMS-06V-KXX	10.16	19.24	29.16	100
	YY	F32FMS-06V-KYY	10.16	19.24	29.16	100
	XY	F32FMS-06V-KXY	10.16	19.24	29.16	100
10	XX	F32FMS-10V-KXX	20.32	29.40	39.32	100
	YY	F32FMS-10V-KYY	20.32	29.40	39.32	100
	XY	F32FMS-10V-KXY	20.32	29.40	39.32	100
12	XX	F32FMS-12V-KXX	25.40	34.48	44.40	100
	YY	F32FMS-12V-KYY	25.40	34.48	44.40	100
	XY	F32FMS-12V-KXY	25.40	34.48	44.40	100
20	XX	F32FMS-20V-KXX	45.72	54.80	64.72	96(box)
	YY	Under planning	—	—	—	—
	XY	Under planning	—	—	—	—

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing (Free hanging type)



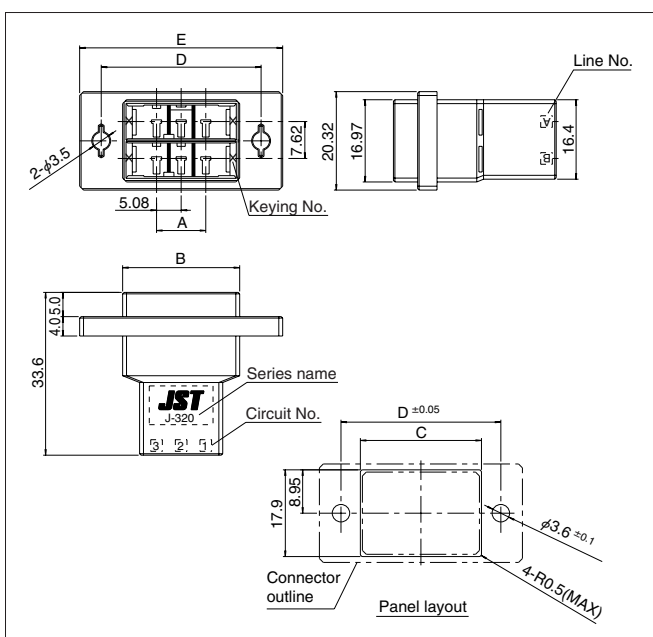
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
6	XX	F32MDF-06V-KXX	10.16	24.16	28.11	100
	YY	F32MDF-06V-KYY	10.16	24.16	28.11	100
	XY	F32MDF-06V-KXY	10.16	24.16	28.11	100
12	XX	F32MDF-12V-KXX	25.40	39.40	43.35	100
	YY	F32MDF-12V-KYY	25.40	39.40	43.35	100
	XY	F32MDF-12V-KXY	25.40	39.40	43.35	100

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing (Panel mounting type)



Circuits	Keying	Model No.	Dimensions (mm)					Q'ty / bag
			A	B	C	D	E	
6	XX	F32MDP-06V-KXX	10.16	24.16	25.00	33.00	41.91	100
	YY	F32MDP-06V-KYY	10.16	24.16	25.00	33.00	41.91	100
	XY	F32MDP-06V-KXY	10.16	24.16	25.00	33.00	41.91	100
12	XX	F32MDP-12V-KXX	25.40	39.40	41.00	49.00	57.91	100
	YY	F32MDP-12V-KYY	25.40	39.40	41.00	49.00	57.91	100
	XY	F32MDP-12V-KXY	25.40	39.40	41.00	49.00	57.91	100
20	XX	F32MDP-20V-KXX	45.72	59.72	61.00	70.00	78.23	40(box)
	YY	Under planning	—	—	—	—	—	—
	XY	Under planning	—	—	—	—	—	—

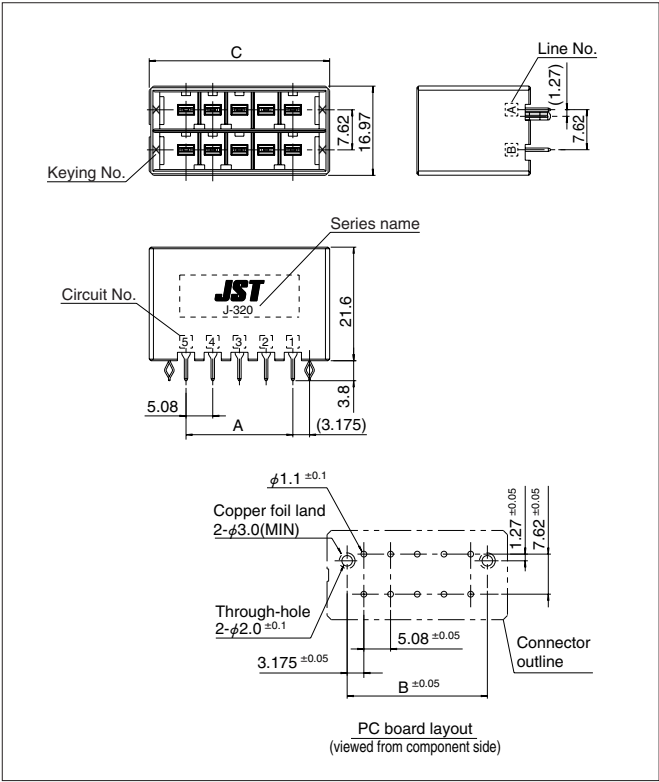
Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

J300 SERIES/J320M

Header (Top entry type)



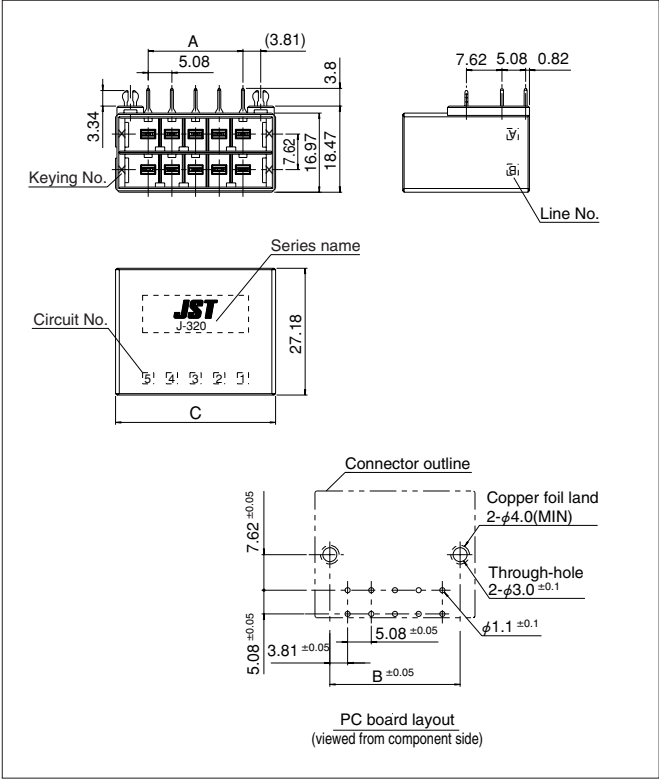
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
6	XX	B06B-F32MK-GGXXR	10.16	16.51	24.16	120
	YY	B06B-F32MK-GGYR	10.16	16.51	24.16	120
	XY	B06B-F32MK-GGXRYR	10.16	16.51	24.16	120
10	XX	B10B-F32MK-GGXXR	20.32	26.67	34.32	84
	YY	B10B-F32MK-GGYR	20.32	26.67	34.32	84
	XY	B10B-F32MK-GGXRYR	20.32	26.67	34.32	84
12	XX	B12B-F32MK-GGXXR	25.40	31.75	39.40	72
	YY	B12B-F32MK-GGYR	25.40	31.75	39.40	72
	XY	B12B-F32MK-GGXRYR	25.40	31.75	39.40	72

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance This product displays (LF)(AU) on a label.
Note: 1. Contact JST for the headers supplied in magazine stick.
2. Contact JST for 0.76 μ m gold-plated product and tin-plated product.

Header (Side entry type)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
6	XX	S06B-F32MK-GGXXR	10.16	17.78	24.16	80
	YY	S06B-F32MK-GGYR	10.16	17.78	24.16	80
	XY	S06B-F32MK-GGXRYR	10.16	17.78	24.16	80
8	XX	S08B-F32MK-GGXXR	15.24	22.86	29.24	64
	YY	S08B-F32MK-GGYR	15.24	22.86	29.24	64
	XY	S08B-F32MK-GGXRYR	15.24	22.86	29.24	64
10	XX	S10B-F32MK-GGXXR	20.32	27.94	34.32	56
	YY	S10B-F32MK-GGYR	20.32	27.94	34.32	56
	XY	S10B-F32MK-GGXRYR	20.32	27.94	34.32	56
12	XX	S12B-F32MK-GGXXR	25.40	33.02	39.40	48
	YY	S12B-F32MK-GGYR	25.40	33.02	39.40	48
	XY	S12B-F32MK-GGXRYR	25.40	33.02	39.40	48

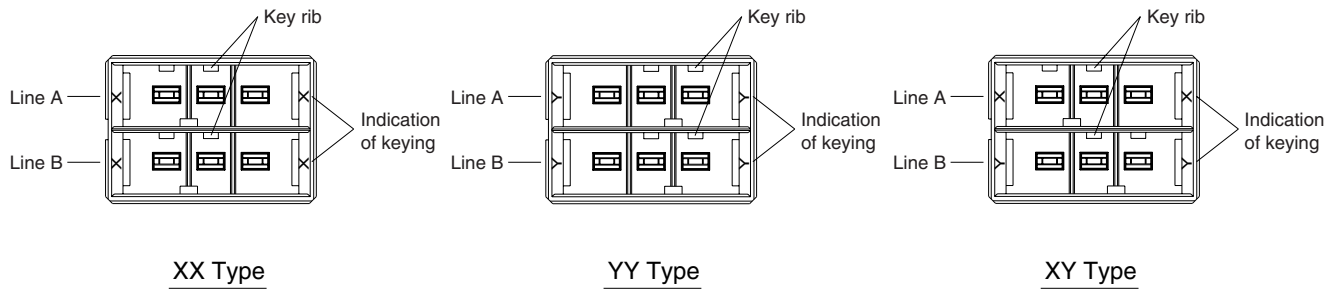
Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance This product displays (LF)(AU) on a label.
Note: 1. Contact JST for the headers supplied in magazine stick.
2. Contact JST for 0.76 μ m gold-plated product and tin-plated product.

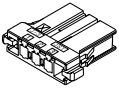


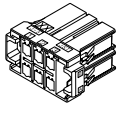
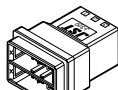

Keying

J320M series have mis-insertion preventive keying.
Available in 3 types – XX type, YY type and XY type.
(Headers viewed from the mating side are shown below.)



List of combinations

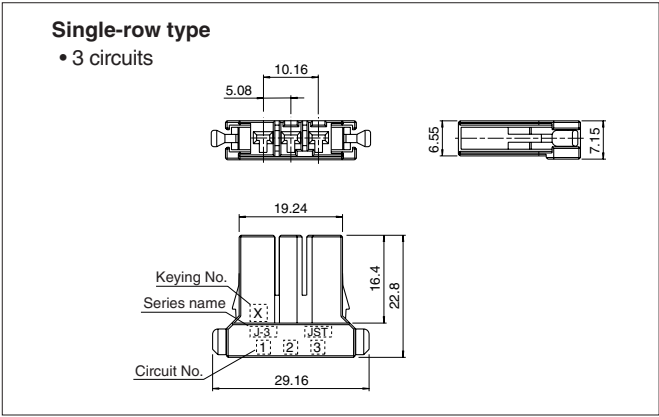
With the combination of the J320M headers and the J320M/J320S receptacle housings, the following modular combinations are possible.

Receptacle housing		Tab housing		Header	
Single-row 3, 5, 6 circuits (J320S) 	X type F32FSS-■V-KX	Single-row 3 circuits (J320S)  Free hanging type Panel mounting type	X type Free hanging type F32MSF-■V-KX Panel mounting type F32MSP-■V-KX	Single-row 3, 5, 6 circuits (J320S)  Top entry type Side entry type	X type Top entry type B■B-F32SK-GGX■ Side entry type S■B-F32SK-GGX■
	Y type F32FSS-■V-KY		Y type Free hanging type F32MSF-■V-KY Panel mounting type F32MSP-■V-KY		Y type Top entry type B■B-F32SK-GGY■ Side entry type S■B-F32SK-GGY■
Double-row 6, 10, 12, 20 circuits (J320M) 	XX type F32FMS-■V-KXX	Double-row 6, 12, 20 circuits (J320M)  Free hanging type Panel mounting type	XX type Free hanging type F32MDF-■V-KXX Panel mounting type F32MDP-■V-KXX	Double-row 6, 10, 12 circuits (J320M)  Top entry type Side entry type	XX type Top entry type B■B-F32MK-GGX■ Side entry type S■B-F32MK-GGX■
	YY type F32FMS-■V-KYY		YY type Free hanging type F32MDF-■V-KYY Panel mounting type F32MDP-■V-KYY		YY type Top entry type B■B-F32MK-GGY■ Side entry type S■B-F32MK-GGY■
	XY type F32FMS-■V-KXY		XY type Free hanging type F32MDF-■V-KXY Panel mounting type F32MDP-■V-KXY		XY type Top entry type B■B-F32MK-GGY■ Side entry type S■B-F32MK-GGY■

Note: Number of circuits is indicated in ■■.
Packaging method is indicated in ■.

J300 SERIES/J320T

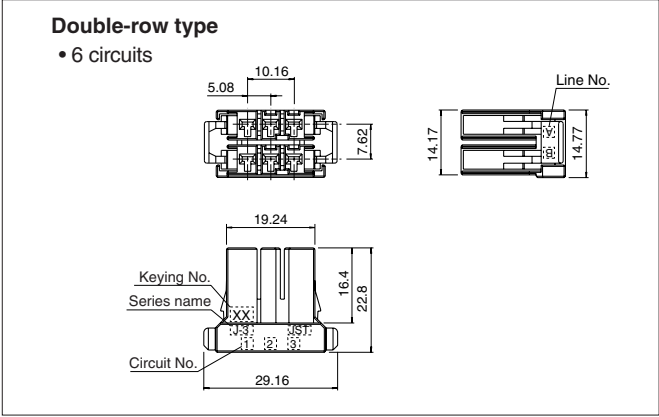
Receptacle housing



Circuits	Keying	Model No.	Q'ty / bag
3	X	F32FSS-03V-KX	200
	Y	F32FSS-03V-KY	200

Material			
Glass-filled PBT, UL94V-0, black			

RoHS compliance

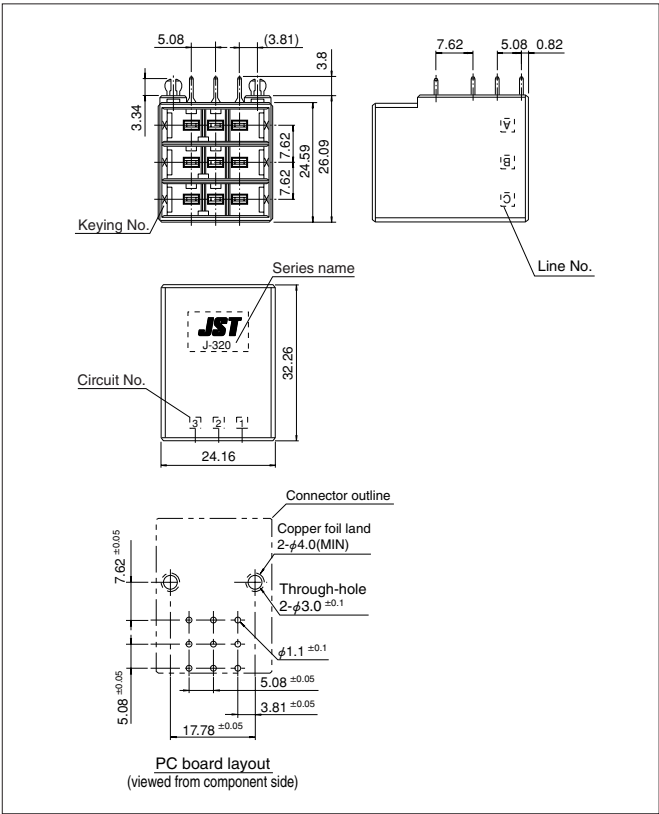


Circuits	Keying	Model No.	Q'ty / bag
6	XX	F32FMS-06V-KXX	100
	YY	F32FMS-06V-KYY	100
	XY	F32FMS-06V-KXY	100

Material			
Glass-filled PBT, UL94V-0, black			

RoHS compliance

Header (Side entry type)



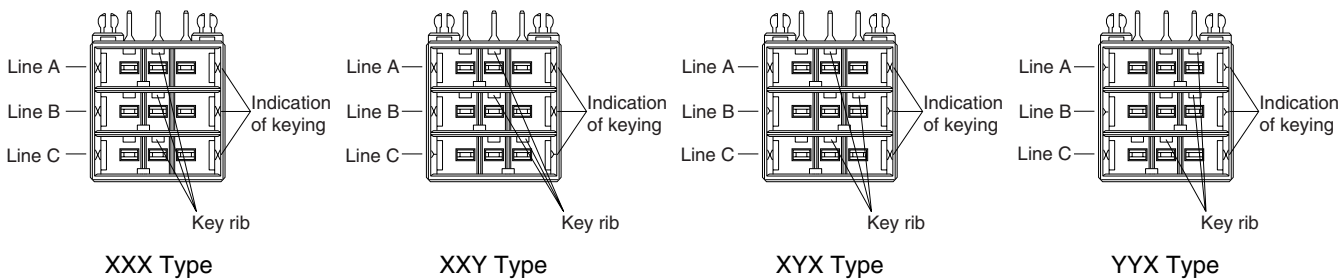
Circuits	Keying	Model No.	Q'ty / box
9	XXX	S09B-F32TK-GGXAR	42
	XXY	S09B-F32TK-GGXBR	42
	XYX	S09B-F32TK-GGXCR	42
	YYX	S09B-F32TK-GGXDR	42

Material and Finish			
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated			
Housing: Glass-filled PBT, UL94V-0, black			
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated			

RoHS compliance This product displays (LF)(AU) on a label.
Note: 1. Contact JST for tin-plated product.
2. Not CSA/TÜV approved

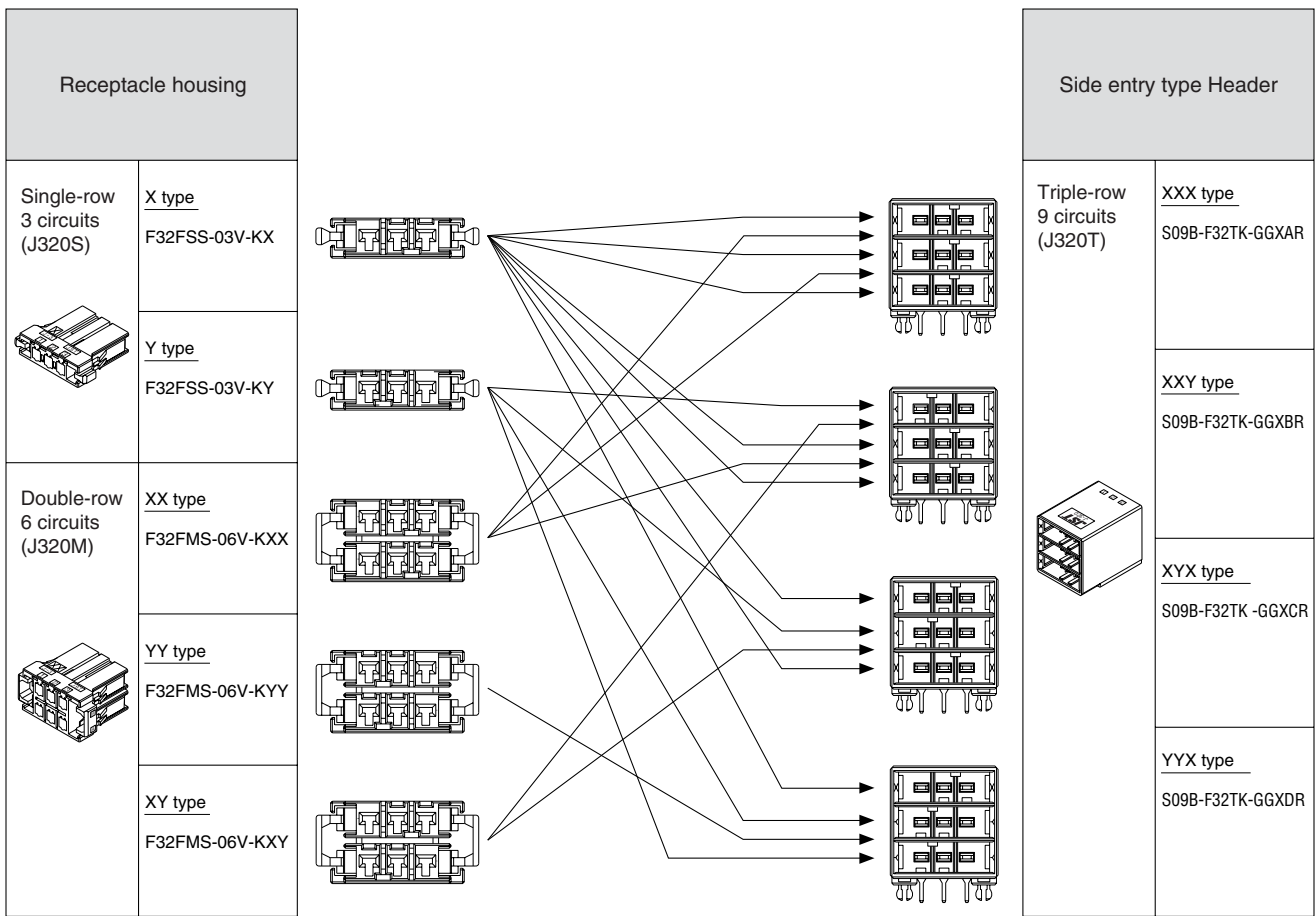
Keying

J320T series have mis-insertion preventive keying.
Available in 4 types – XXX type, XXY type, XYX type and YYX type.
(Headers viewed from the mating side are shown below.)



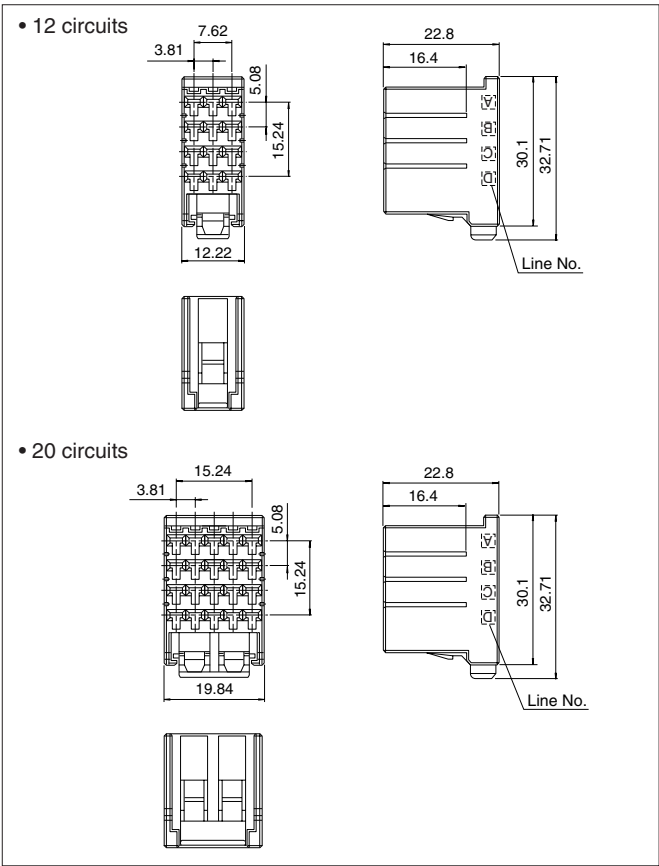
List of combinations

With the combination of the J320T headers and the J320S/J320M receptacle housings, the following modular combinations are possible.



J300 SERIES/J340F

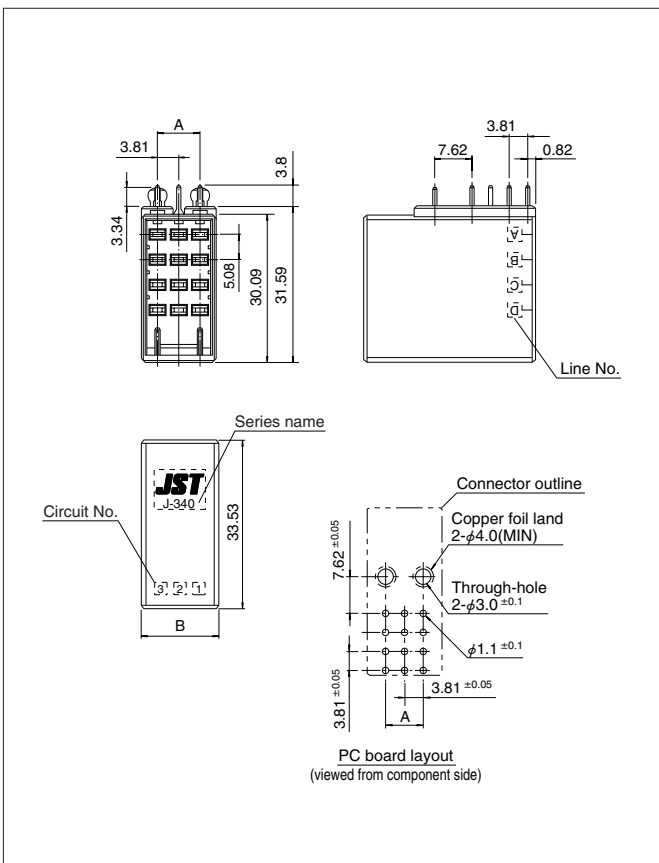
Receptacle housing



Circuits	Keying	Model No.	Q'ty / bag
12	—	F34FFC-12V-K	100
20	—	F34FFC-20V-K	100
Material			
Glass-filled PBT, UL94V-0, black			

RoHS compliance
Note: Not CSA/TÜV approved.

Header (Side entry type)

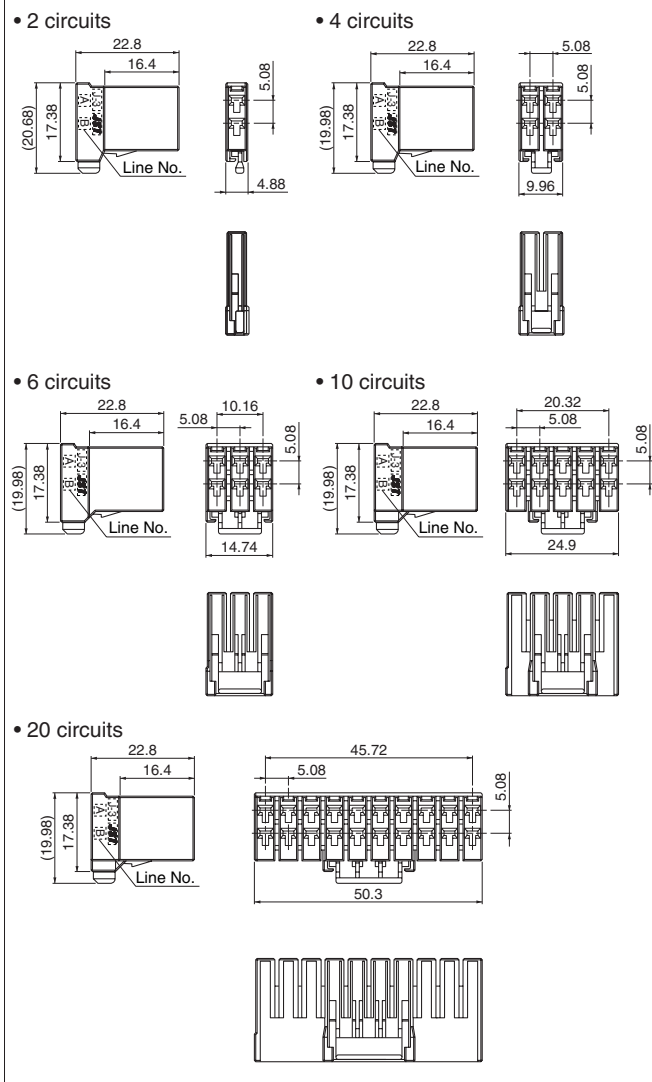


Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
12	—	SC12B-F34FK-GGR	7.62	15.02	63
20	—	SC20B-F34FK-GGR	15.24	22.64	42
Material and Finish					

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance This product displays (LF)(AU) on a label.
Note: 1. Contact JST for tin-plated product.
2. Not CSA/TÜV approved.

Receptacle housing



Circuits	Keying	Model No.	Q'ty / bag
2	—	F35FDC-02V-K	200
4	—	F35FDC-04V-K	200
6	—	F35FDC-06V-K	200
10	—	F35FDC-10V-K	100
20	—	F35FDC-20V-K	100

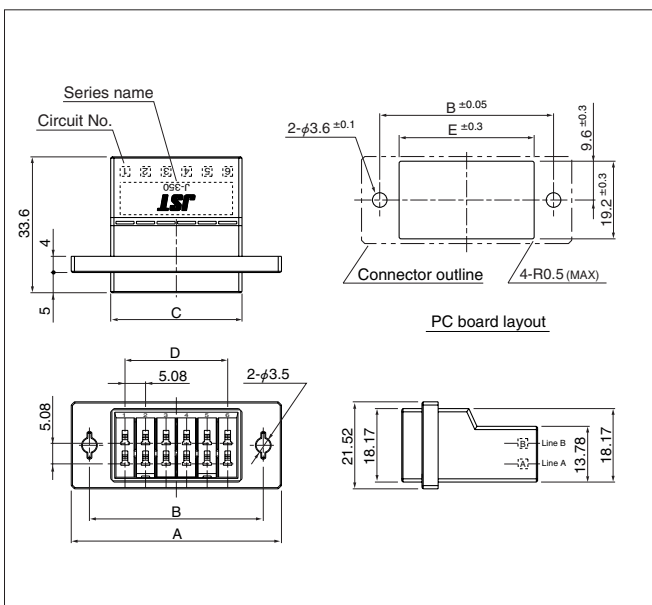
Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Note: Not CSA/TÜV approved.

Tab housing (Panel mounting type)



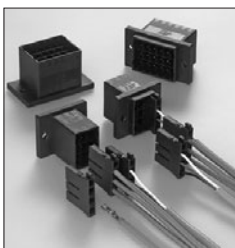
Circuits	Keying	Model No.	Dimensions (mm)					Q'ty / box
			A	B	C	D	E	
12	—	F35MDP-12V-K	52.00	43.00	32.48	25.40	33.40	41

Material

Glass-filled PBT, UL94V-0, black

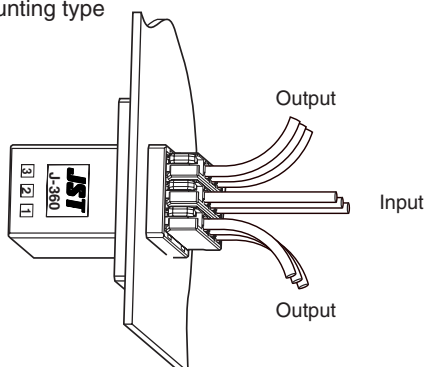
RoHS compliance

Note: Not CSA/UL/TÜV approved.

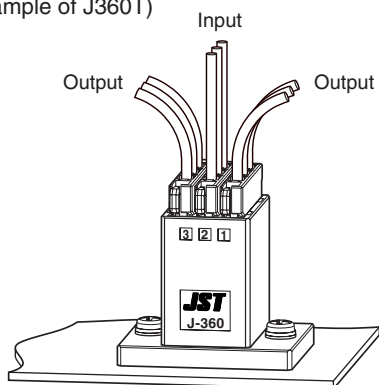


J300 SERIES/COMMON TYPE CONNECTOR

- Panel mounting type



- Direct mounting type
(Example of J360T)



- Receptacle terminal of JFA J300 series can be used.
- Between rows are commonly connected.
- Proposing rationalization of wiring.
- Mounting method of connector.

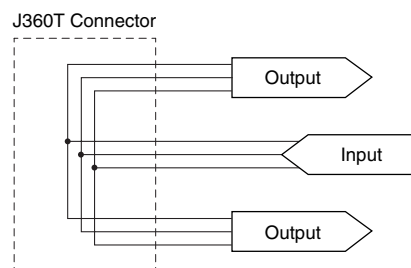
Specifications

- Current rating: 18A AC, DC (18 circuits/AWG #14)
- Voltage rating: 600V AC, DC
- Temperature range: -55°C to +105°C
(including temperature rise in applying electrical current)

*Contact JST for details.

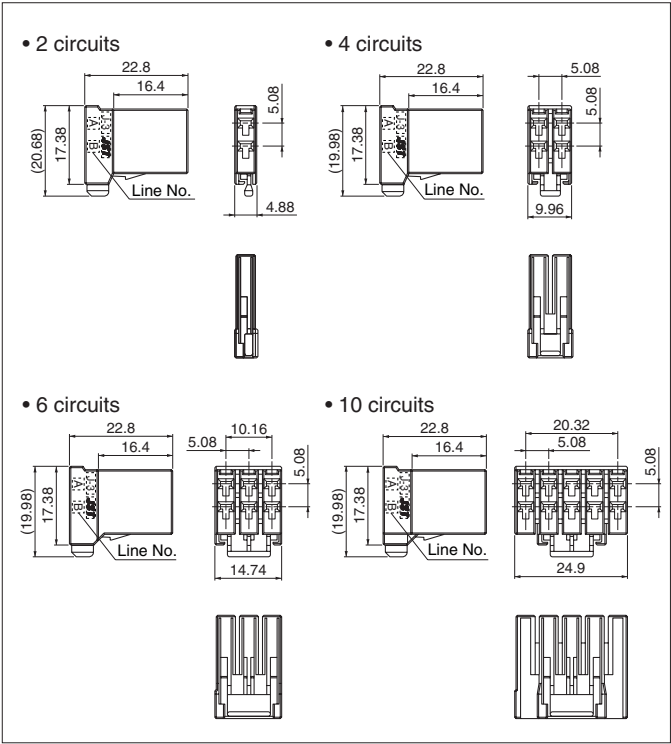
*Compliant with RoHS.

Circuit figure



COMMON TYPE/J350DC

Receptacle housing

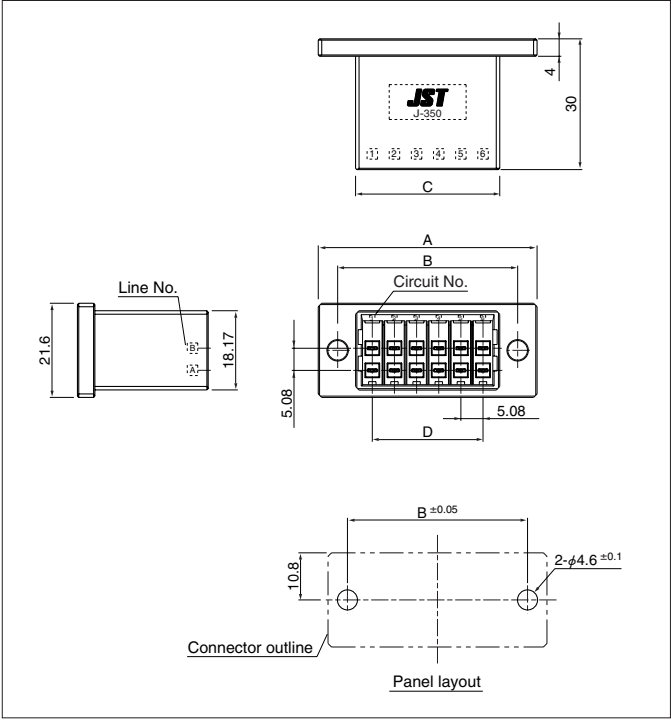


Circuits	Keying	Model No.	Q'ty / bag
2	—	F35FDC-02V-K	200
4	—	F35FDC-04V-K	200
6	—	F35FDC-06V-K	200
10	—	F35FDC-10V-K	100

Material
Glass-filled PBT, UL94V-0, black

RoHS compliance
Note: Not CSA/TÜV approved.

Tab housing assembly



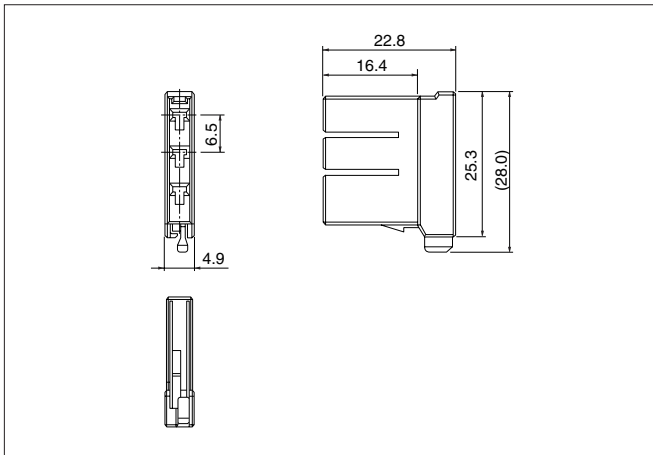
Circuits	Keying	Model No.	Dimensions (mm)				Q'ty / box
			A	B	C	D	
12	—	P12B-F35DK-GFAR	57.0	44.6	33.08	25.4	196

Material and Finish
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black

RoHS compliance
Note: 1. Tightening torque of M3 screw varies depending on screw and material to be tighten as follows.
Steel: 50cN • m max.
Copper, aluminum and plastics: 30cN • m (reference target value)
2. Not CSA/TÜV approved.

COMMON TYPE/J360T

Receptacle housing



Circuits	Keying	Model No.	Q'ty / bag
3	—	F36FTC-03V-K	200

Material

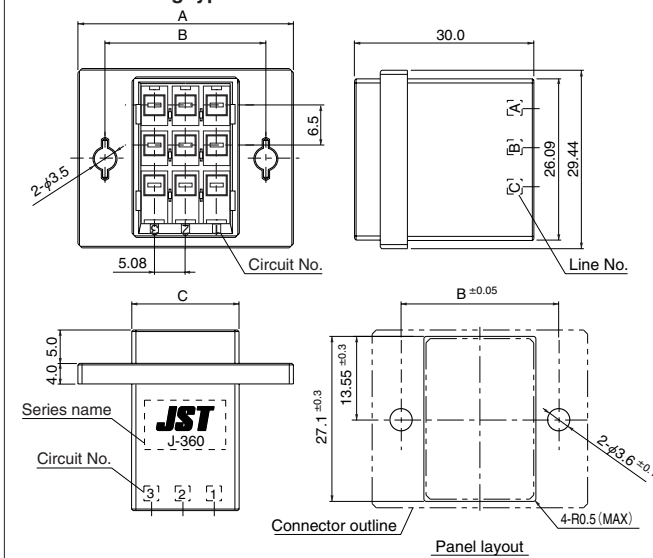
Glass-filled PBT, UL94V-0, black

RoHS compliance

Note: Not CSA/TÜV approved.

Tab housing assembly

• Panel mounting type



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
9	—	P09B-F36TK-GFR	35.0	26.1	17.8	364
18	—	P18B-F36TK-GFR	50.2	41.3	33.1	224

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black

RoHS compliance

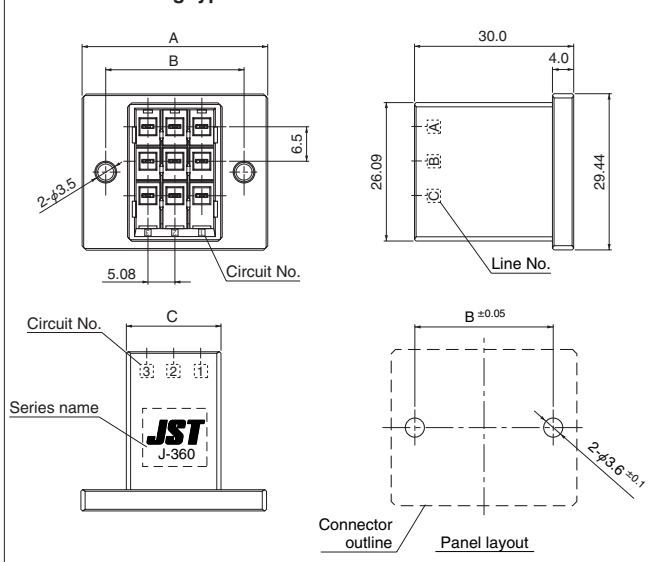
Note: 1. Tightening torque of M3 screw varies depending on screw and material to be tighten as follows.

Steel: 50cN • m max.

Copper, aluminum and plastics: 30cN • m (reference target value)

2. Not CSA/TÜV approved.

• Direct mounting type



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
9	—	P09B-F36TK-GFAR	35.0	26.1	17.8	364
18	—	P18B-F36TK-GFAR	50.2	41.3	33.1	224
24	—	P24B-F36TK-GFANR	60.4	51.5	43.2	168

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black

RoHS compliance

Note: 1. Tightening torque of M3 screw varies depending on screw and material to be tighten as follows.

Steel: 50cN • m max.

Copper, aluminum and plastics: 30cN • m (reference target value)

2. There is no cover of common tab side for 24 circuits.

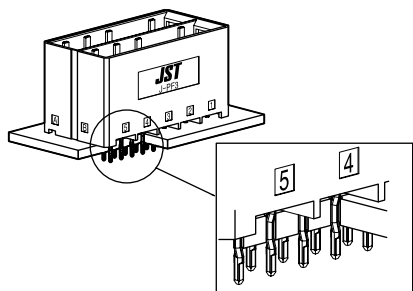
P24B-F36TK-GFANR

N means no cover.

3. The top and bottom for both the logo mark and the series name of 24 circuits reverse against display of 9 or 18 circuits.

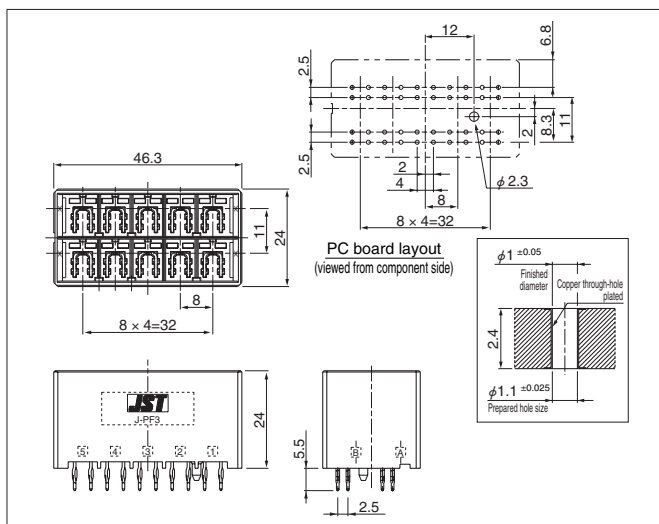
4. Not CSA/TÜV approved.

J300 SERIES/J-PF3 PRESS FIT TYPE



- Press fit contact is adopted.
- Easy PC board layout
- Use the receptacle contact of J300 series

Header Top entry type (Press fit type)



Circuits	Keying	Model No.	Q'ty / box
10	XX	B10B-JPF3MK-GKXXR	96
	YY	B10B-JPF3MK-GKYR	96
	XY	B10B-JPF3MK-GKXYR	96
	YX	B10B-JPF3MK-GKYXR	96

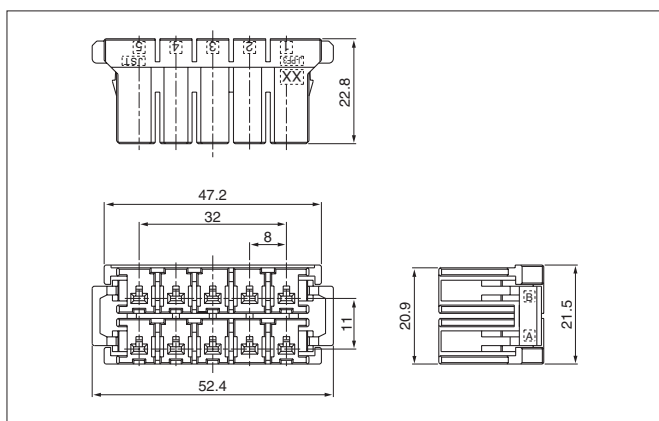
Material and Finish

Post: Copper alloy, gold-plated
Housing: Thermoplastic resin

RoHS compliance

Note: 1. Contact JST for jig for press fit.
2. Not CSA/UL/TÜV approved.

Receptacle housing



Circuits	Keying	Model No.	Q'ty / bag
10	XX	JPF3FMS-10V-KXX	400
	YY	JPF3FMS-10V-KYY	400
	XY	JPF3FMS-10V-KXY	400
	YX	JPF3FMS-10V-KYX	400

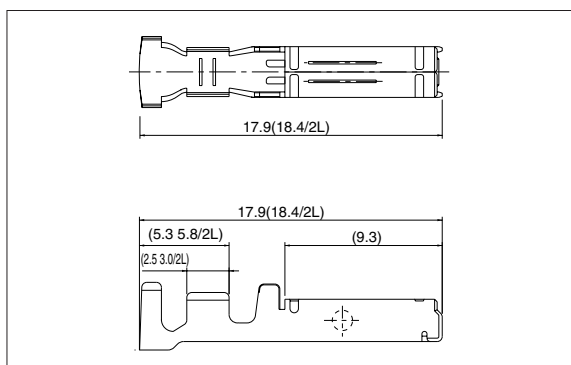
Material

Housing: Thermoplastic resin

RoHS compliance

Note: Not CSA/UL/TÜV approved.

Receptacle contact



Model No.		Applicable wire			Insulation O.D. (mm)	Q'ty	
Strip contact	Loose piece	Nominal	mm ²	AWG#		reel	Box(Loose piece)
SF3F-002GF-P2.0	BF3F-002GF-P2.0	S	0.08~0.20	28~24	0.8~1.4	3,700	1,000
SF3F-01GF-P2.0	BF3F-01GF-P2.0	M	0.20~0.50	24~20	1.2~2.6	3,700	1,000
SF3F-41GF-P2.0	LF3F-41GF-P2.0	L	0.50~1.25	20~16	1.8~2.8	3,200	1,000
*SF3F-71GF-P2.0	*BF3F-71GF-P2.0	2L	1.25~2.0	16~14	2.4~3.4	3,200	1,000

Material and Finish

Copper alloy (superior conductivity), nickel-undercoated, selective gold-plated
tin-plated (reflow treatment)

RoHS compliance

Note: *Marked products are not CSA/TÜV approved.

JFA CONNECTOR/J300 SERIES

Model number identification

Receptacle contact

S F3 F - 41 GF - P 2.0

Form: S...Strip form, B...Loose piece
L...Loose piece with curled barrels

Series name

Kind of terminal: F...Receptacle contact

Applicable wire: 002...AWG #28 ~ #24, 01...AWG #24 ~ #20
41...AWG #20 ~ #16, 71...AWG #16 ~ #14

Surface finish: GF...Nickel-undercoated, 0.38 μ m selective gold-plated
GI...Nickel-undercoated, 0.76 μ m selective gold-plated
T...Tin-plated (Reflow treatment)

Material: P...Copper alloy

Terminal size

Tab contact

S F3 M - 41 GF - M 2.0 N

Form: S...Strip form, B...Loose piece
L...Loose piece with curled barrels

Series name

Kind of terminal: M...Tab contact

Applicable wire: 01...AWG #24 ~ #20, 41...AWG #20 ~ #16
71...AWG #16 ~ #14

Surface finish: GF...Nickel-undercoated, 0.38 μ m selective gold-plated
GI...Nickel-undercoated, 0.76 μ m selective gold-plated
T...Tin-plated (Reflow treatment)

Material: M...Copper alloy

Terminal size

Sequential identification

Receptacle housing

F31 F S S - 03 V - K X

Series name

Type of connector: F...Receptacle housing

Rows: S...Single-row
D...Double-row with 5.08mm line pitch
M...Double-row with 7.62mm line pitch
F...Quadruple-row with 5.08mm line pitch

Configuration: S...Side locking, C...Center locking

No. of circuits: 1 ~ 6, 8, 10, 12, 16, 20

Flammability: V...UL94V-0

Color indication: K...Black, S...White, E...Blue

Keying: X...X-Keying, Y...Y-Keying, XX...XX-Keying
YY...YY-Keying, XY...XY-Keying, Blank...Without Keying No.

Tab housing

F31 M S F - 03 V - K X

Series name

Kind of terminal: M...Tab housing

Rows: S...Single-row, D...Double-row with 5.08mm line pitch
M...Double-row with 7.62mm line pitch

Configuration: F...Free hanging, P...Panel mounting

No. of circuits: 1 ~ 6, 8, 10, 12, 16, 20

Flammability: V...UL94V-0

Color indication: K...Black, S...White, E...Blue

Keying: X...X-Keying, Y...Y-Keying, XX...XX-Keying
YY...YY-Keying, XY...XY-Keying, Blank...Without Keying No.

Header

B 05 B - F31 S K - GG X R

PC board mounting direction:
B...Top entry type
S...Side entry type
BC...Top & center locking
SC...Side & center locking

No. of circuits: 2 ~ 6, 8, 10, 12, 16, 20

Product name: Header

Series name

Rows: S...Single-row
D...Double-row with 5.08mm line pitch
M...Double-row with 7.62mm line pitch
T...Triple-row with 7.62mm line pitch
F...Quadruple-row with 5.08mm line pitch

Color indication: K...Black, S...White, E...Blue

Surface finish: GG...Nickel-undercoated, 0.38 μ m selective gold-plated
GK...Nickel-undercoated, 0.76 μ m selective gold-plated
T...Tin-plated (Reflow treatment)

Keying: X...X-Keying, Y...Y-Keying, XX...XX-Keying, YY...YY-Keying,
XY...XY-Keying, XA...XXX-Keying, XB...XXY-Keying,
XC...XYX-Keying, XD...YYX-Keying, Blank...Without Keying No.

Packaging form: R...Tray, M...Magazine stick

Receptacle assembly

03 JFAT - SA Y GF - I

No. of circuits: 3 ~ 6

Series name

Mating type: SA...Normal type, SB...Reverse type

Keying: X...X-Keying, Y...Y-Keying

Surface finish: GF...Nickel-undercoated, 0.38 μ m selective gold-plated

Shape: I ... I type

Tab housing assembly

P 18B-F36T K - GF A R

PC board mounting direction: Panel mounting type

No. of circuits - Assembly: 9, 12, 18, 24

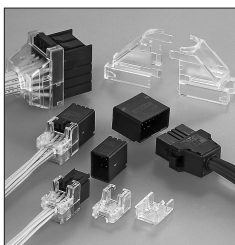
Series name: F36T...J360T, F35D...J350DC

Color indication: K...Black

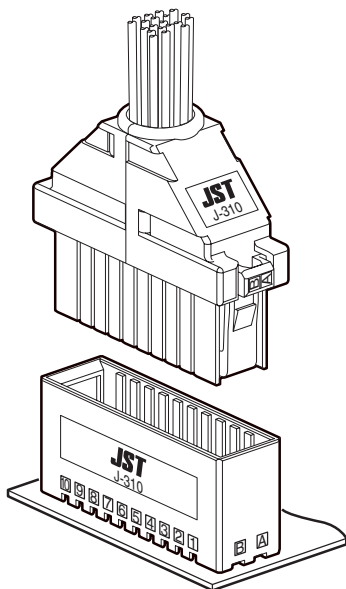
Surface finish: GF...Nickel-undercoated, 0.38 μ m selective gold-plated

Configuration: A...Direct mounting type, AF...Direct mounting without housing cover type,
Blank...Panel mounting type

Packaging form: R...Tray



JFA CONNECTOR/PROTECTOR

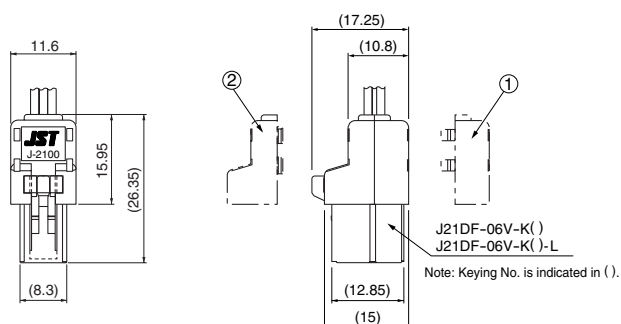


Note: Protector is not UL/CSA/TÜV approved

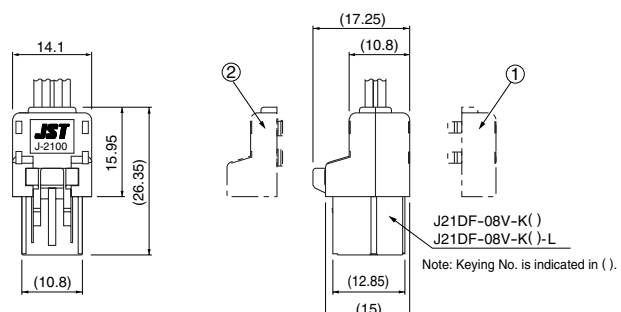
When applying a current to the connector, the protector prevents foreign substances being inserted into mating part from the wiring side. However it has no function of holding the wire securely.

J2000 Series

•J2100 series for 6 circuits



•J2100 series for 8 circuits



No.	Model No.	Color
①	J21PF-06SCA	Transparent
②	J21PF-06SCB	Transparent
Material		
Polycarbonate		

RoHS compliance

No.	Model No.	Color
①	J21PF-08SCA	Transparent
②	J21PF-08SCB	Transparent
Material		
Polycarbonate		

RoHS compliance

JFA CONNECTOR/PROTECTOR

J2000 Series

•J2100 series for 10 circuits

J21DF-10V-K()-L
Note: Keying No. is indicated in ().

No.	Model No.	Color
①	J21PF-10SCA	Transparent
②	J21PF-10SCB	Transparent
Material		
Polycarbonate		

RoHS compliance

•J2100 series for 16 circuits

J21DF-16V-K()-L
Note: Keying No. is indicated in ().

No.	Model No.	Color
①	J21PF-16SCA	Transparent
②	J21PF-16SCB	Transparent
Material		
Polycarbonate		

RoHS compliance

•J2100 series for 20 circuits

J21DF-20V-K()-L
Note: Keying No. is indicated in ().

No.	Model No.	Color
①	J21PF-20SCA	Transparent
②	J21PF-20SCB	Transparent
Material		
Polycarbonate		

RoHS compliance

•J2200 series for 10 circuits

J22DF-10V-K()
Note: Keying No. is indicated in ().

No.	Model No.	Color
①	J22PF-10VK	Black
Material		
Glass-filled PBT		

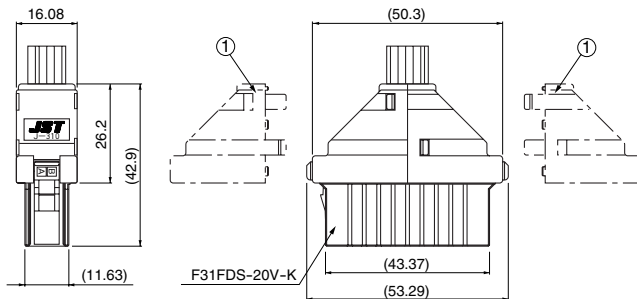
RoHS compliance

Note: Two protectors are used.

JFA CONNECTOR/PROTECTOR

J300 Series

•J310D series for 20 circuits



No.	Model No.	Color
①	F31PFD-20VK	Black
①	F31PFD-20SC	Transparent

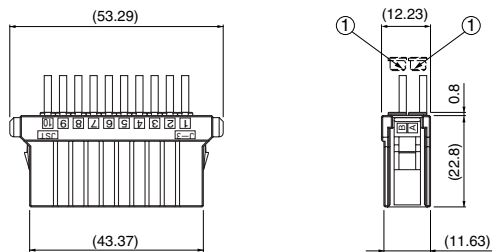
Material

Black: Glass-filled PBT
Transparent: Polycarbonate

RoHS compliance

Note: Two protectors of the same color are used.

•J310D series / Embedding-type protector for 8, 10 circuits



No.	Model No.	Color
①	F31PFS-10KU	Black

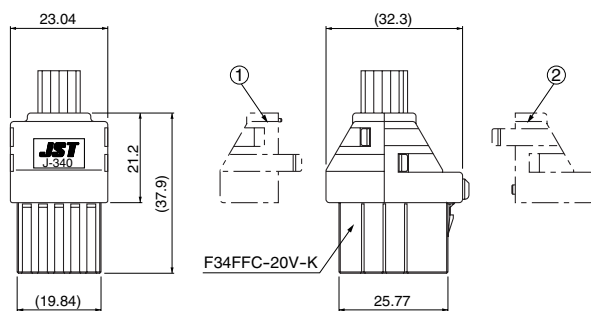
Material

Glass-filled PBT

RoHS compliance

Note: This protector is cut and used for each number of circuits.

•J340F series for 20 circuits



No.	Model No.	Color
①	F34PFF-20VKA	Black
	F34PFF-20SCA	Transparent
②	F34PFF-20VKB	Black
	F34PFF-20SCB	Transparent

Material

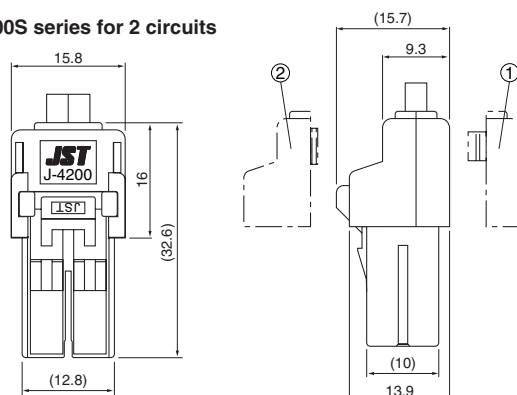
Black: Glass-filled PBT
Transparent: Polycarbonate

RoHS compliance

Note: Both 1 and 2 protectors in the same color are used.

J4000 Series

•J4200S series for 2 circuits



No.	Model No.	Color
①	J42PF-02SCA	Transparent
②	J42PF-02SCB	Transparent

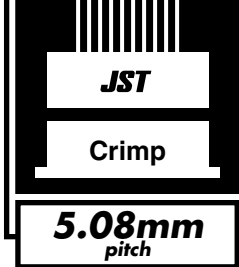
Material

Polycarbonate

RoHS compliance

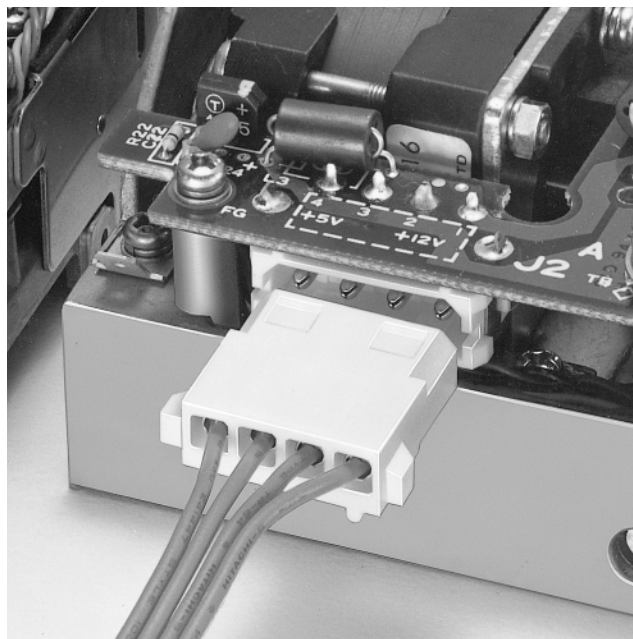
(Patent pending)

When applying a current to the connector, the protector prevents foreign substances being inserted into mating part from the wiring side. However it has no function of holding the wire securely.

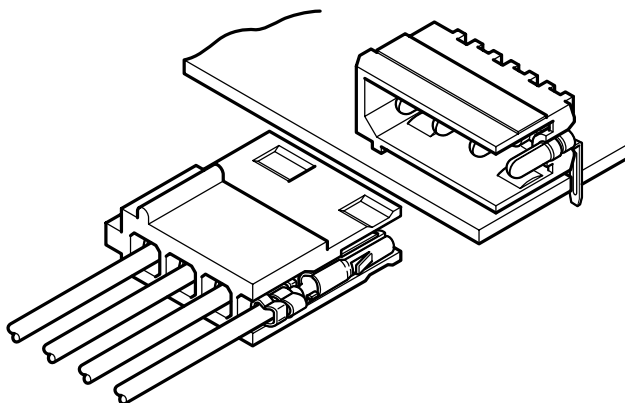


LC CONNECTOR

Disconnectable Crimp style connectors



This reliable, low cost connector is suited for bringing power to printed circuit boards in office automation equipment. A major application has been in secondary power supply circuits of floppy disk drives.



Features

• Anti-misinsertion feature

The plug and header are polarized, thus preventing misinsertion of the connector.

• Self-locking housing clamp

The self-locking housing clamp for the header ensures easy handling and sturdy mounting.

• Two kinds of headers (Side entry type)

Type A and B headers are available to match the mounting direction of your printed circuit boards.

• Two-wire crimp style contact

Two-wire crimp contacts which facilitate branch connections and internal jumpering are available.

Specifications

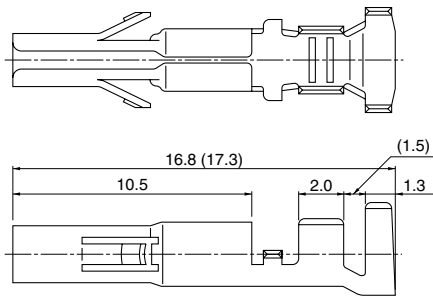
- Current rating: 7A AC, DC (AWG #18)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +90°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #22 to #18
- Applicable PC board thickness: 1.6mm
- Number of circuits: 4
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

Recognized E60389

Certified LR20812

Contact



Dimensions in [] apply to the SLC-22T-2.0 two-wire crimping type.

One-wire crimping type

Model No.	Applicable wire			Q'ty / reel
	mm ²	AWG #	Insulation O.D. (mm)	
SLC-21T-2.0	0.33 to 0.75	22 to 18	1.7 to 2.1	4,000

Material and Finish

Brass, tin-plated (reflow treatment)

RoHS compliance

Two-wire crimping type

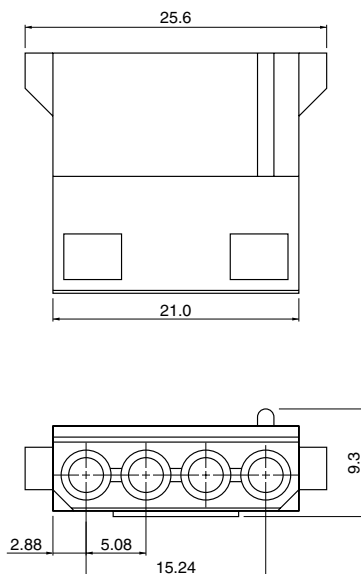
Model No.	Combination of applicable wires UL1007 AWG #	Q'ty / reel
SLC-22T-2.0	20+20, 20+18, 18+18	3,000

Material and Finish

Brass, tin-plated (reflow treatment)

RoHS compliance

Housing



Model No.	Q'ty / box
LCP-04	500

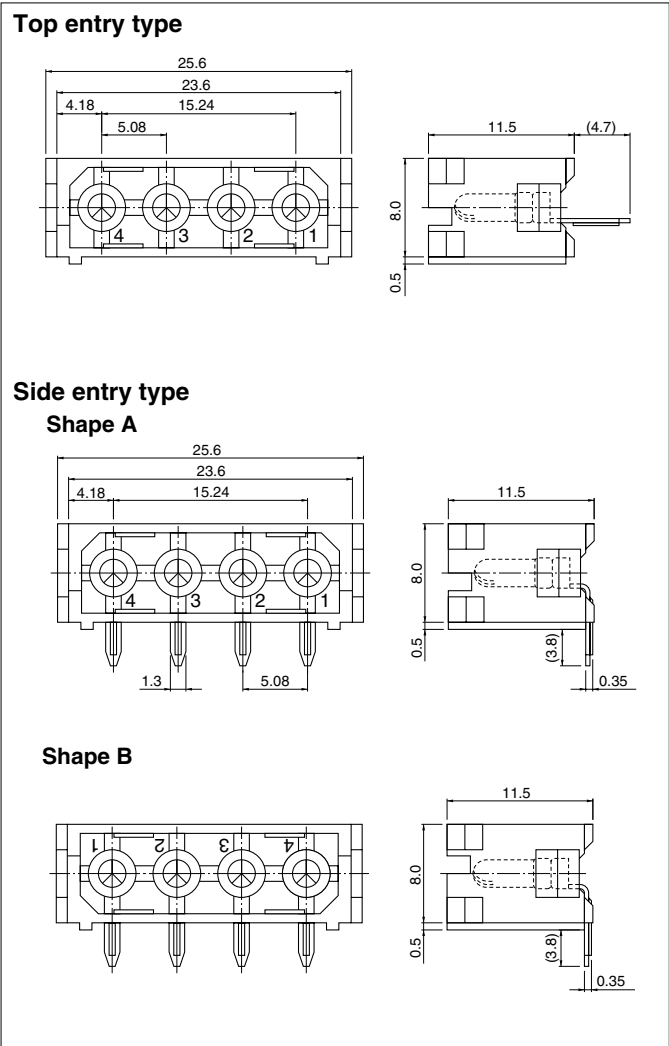
Material

PA 6, UL94V-0, natural (white)

RoHS compliance

LC CONNECTOR

Shrouded header



Top entry type

Model No.	Q'ty / box
LC-04T	100
Material and Finish	
Contact: Brass, tin-plated (reflow treatment) Housing: PA 66, UL94V-0, natural (white)	

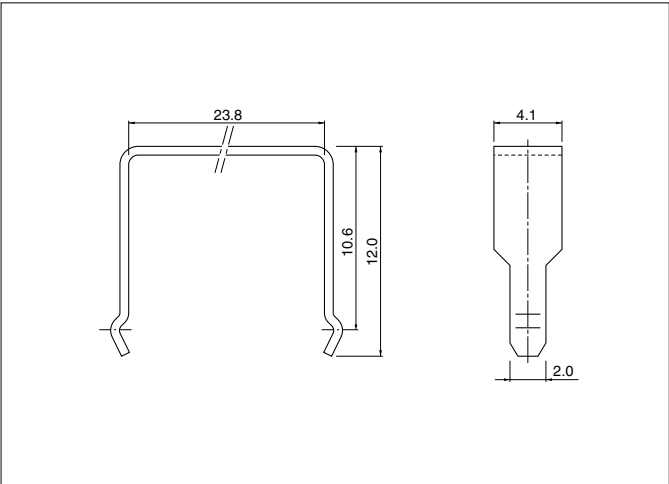
RoHS compliance

Side entry type

Shape	Model No.	Q'ty / box
A	LC-04A	100
B	LC-04B	
Material and Finish		
Contact: Brass, tin-plated (reflow treatment) Housing: PA 66, UL94V-0, natural (white)		

RoHS compliance

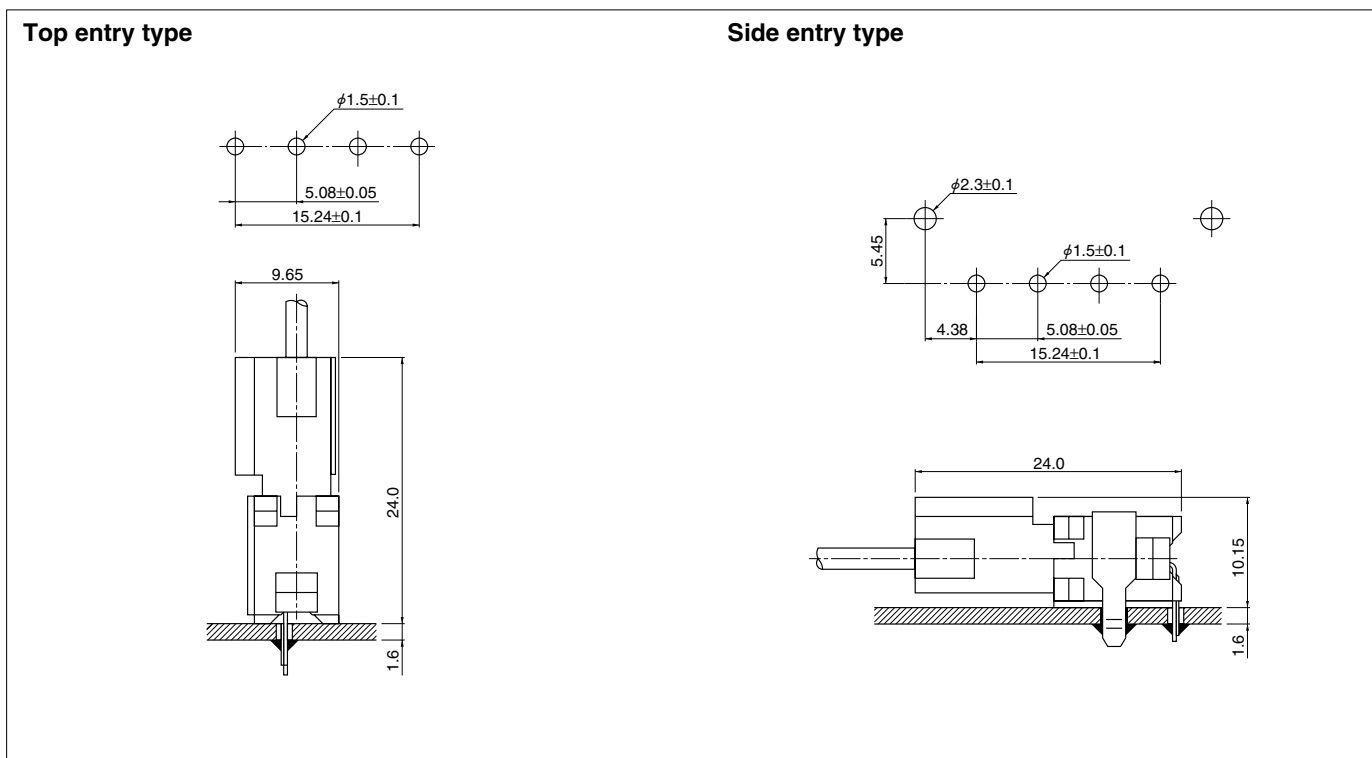
Housing clamp



Model No.	Q'ty / box
LCC-04	500
Material and Finish	
Brass, tin-plated (reflow treatment)	

RoHS compliance

PC board layout (viewed from component side) and Assembly layout



Note:

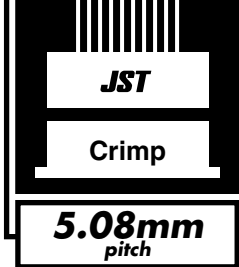
1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Crimping machine, Applicator

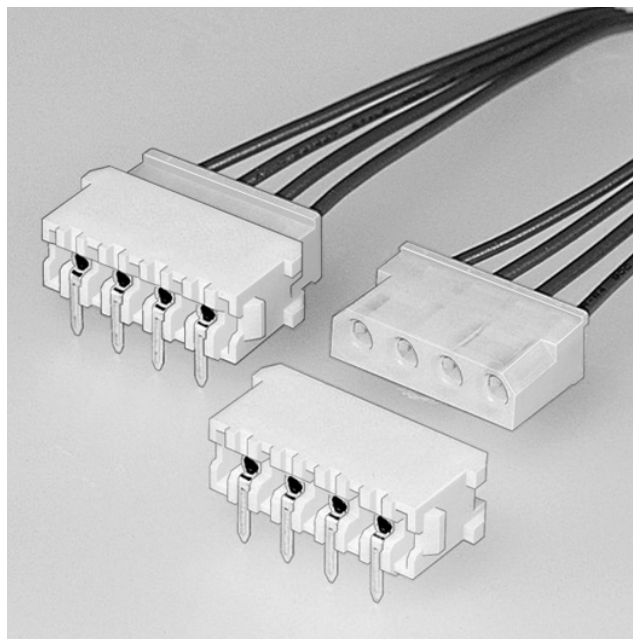
Contact	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies
SLC-21T-2.0	AP-K2N	MKS-L	MK/SLC-21-20	APLMK SLC21-20
		—	—	—

Contact	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies
SLC-22T-2.0	AP-K2N	MKS-L	MK/SLC-22-20	APLMK SLC22-20
		—	—	—



LC-L CONNECTOR

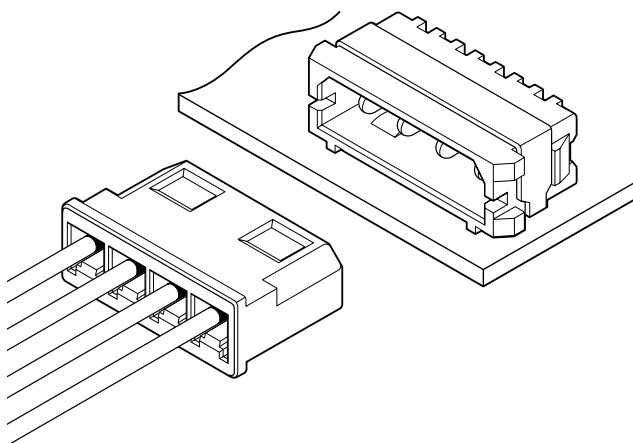
Disconnectable Crimp style connectors



The LC connector is for the secondary power circuit used in the office automation equipment, such as the 3.5inch HDD and MO, including the DVD.

This low-profile crimp type connector is designed to meet further miniaturization of the equipment.

The Plug Housing can also be mated with our LC connector (top and side entry types) and the power connection part of the LK connector.



Features

• Space-saving

The miniaturization (improved from 20.5mm to 13.5mm height) realizes radical space saving after mating and consequently will provide more space for wiring.

• Lower insertion force

Insertion and withdrawal force are reduced by 40 to 50% compared to the existing type.

• Double-crimping contact

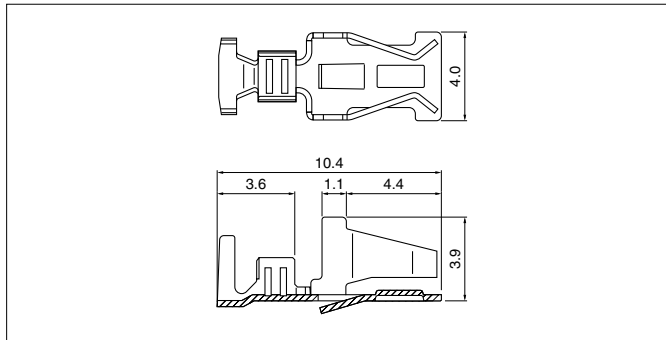
For an internal branching or jumper connection, a double-crimping type contact is adopted.

Specifications

- Current rating: 5A AC, DC (AWG#20)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +90°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: 001 type: AWG#26 to #22, #26+#26
02 type: AWG#20 to #18, #26+#24,
#24+#24, #24+#22, #22+#22
- Applicable PC board thickness: 1.6mm
- Number of circuits: 4
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

LC-L CONNECTOR

Contact



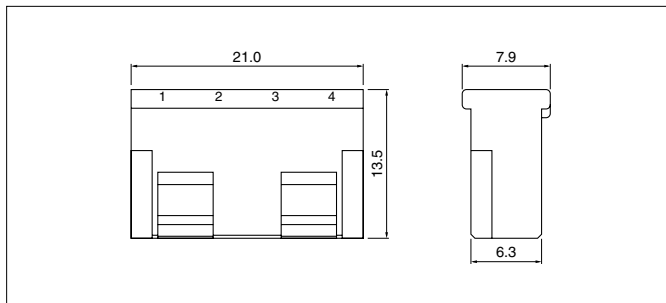
Model No.	Applicable wire			Q'ty / reel
	mm ²	AWG #	Insulation O.D. (mm)	
SLC-001T-P2.0	0.13 to 0.33	26 to 22	1.3 to 1.7	3,000
	0.13 + 0.13	26 + 26	1.3 + 1.3	
SLC-02T-P2.0	0.5 to 0.75	20 to 18	1.9 to 2.1	3,000
	0.13 + 0.22 to 0.33 + 0.33	26 + 24 to 22 + 22	1.3 + 1.5 to 1.7 + 1.7	

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Housing



Model No.	Q'ty / bag
LCP-04L	500

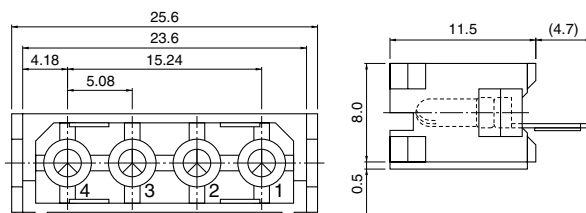
Material

PA 66, UL94V-2

RoHS compliance

Shrouded header

Top entry type



Top entry type

Model No.	Q'ty / box
LC-04T	100

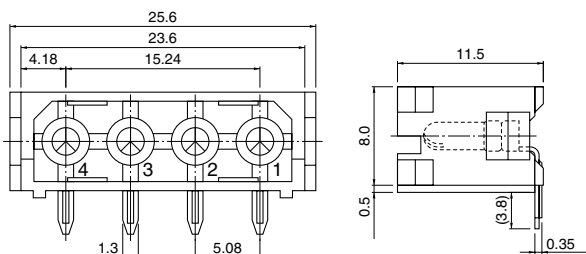
Material and Finish

Contact: Brass, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0, natural (white)

RoHS compliance

Side entry type

Shape A



Side entry type

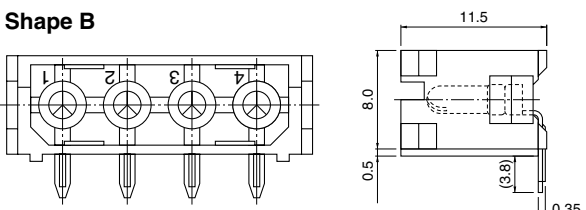
Shape	Model No.	Q'ty / box
A	LC-04A	100
B	LC-04B	

Material and Finish

Contact: Brass, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0, natural (white)

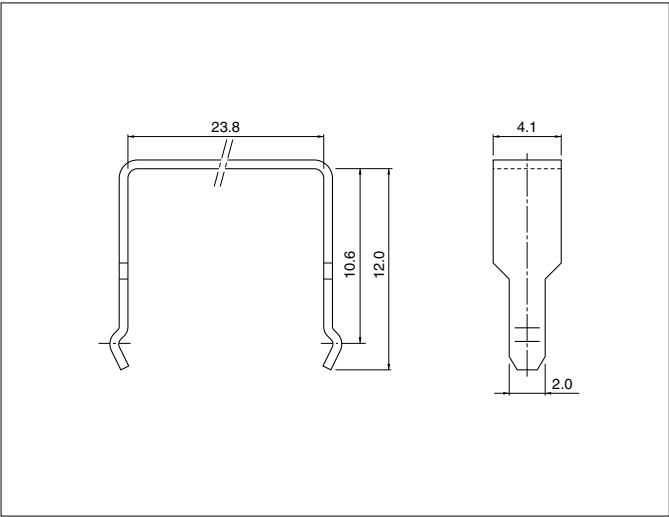
RoHS compliance

Shape B



LC-L CONNECTOR

Housing clamp



Model No.	Q'ty / box
LCC-04	500
Material and Finish	
Brass, copper-undercoated, tin-plated (reflow treatment)	

RoHS compliance

PC board layout (viewed from component side) and Assembly layout

Top entry type

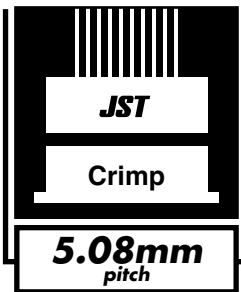
Side entry type

Note:
1. Tolerances are non-cumulative: ±0.1mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Crimping machine, Applicator

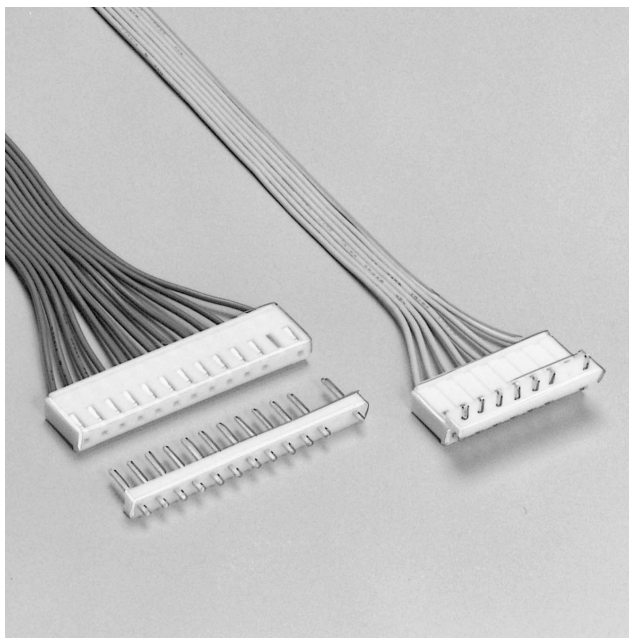
Contact	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies
SLC-001T-P2.0	AP-K2N	MKS-L	MK/SLC-001-20	APLMK SLC001-20
		—	—	—

Contact	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies
SLC-02T-P2.0	AP-K2N	MKS-L	MK/SLC-02-20	APLMK SLC02-20
		—	—	—

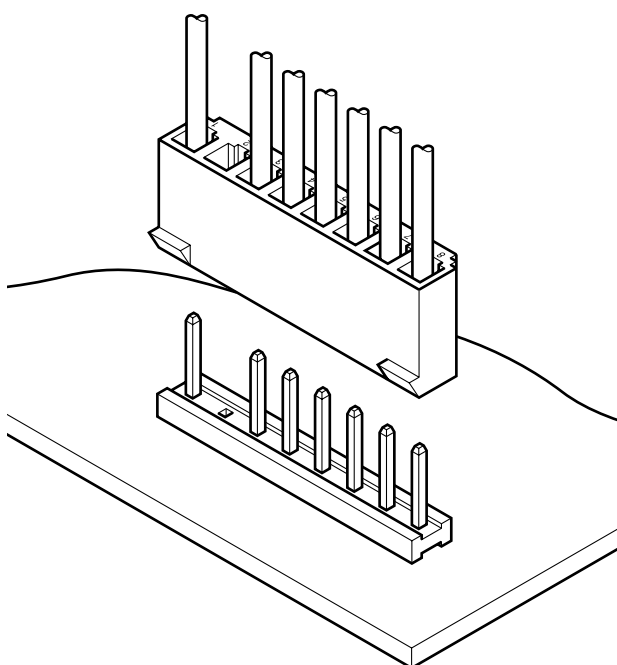


VB CONNECTOR

Disconnectable Crimp style connectors



This large current carrying capacity connector for printed circuit boards can be used with primary power supply circuits of consumer electronic products and various other circuits requiring large currents.



Features

• **Proven box-shaped contact**

This connector was designed and developed for use in the power supply circuits utilizing the contacts so successfully used in the VH connector.

Specifications

- Current rating: 7A AC, DC (AWG #18)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #22 to #18
- Applicable PC board thickness: 1.6mm

Note:

Do not branch in parallel current which exceeds the rated current. If branched in parallel, current imbalance or other problems may develop. If it is absolutely necessary to branch such a large current in parallel, design the circuits without causing imbalance and provide an extra margin for each circuit.

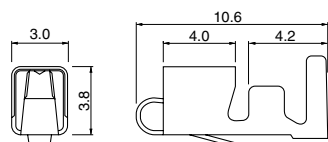
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

Recognized E60389

Certified LR20812

Contact



Model No.	Applicable wire			Q'ty / reel
	mm ²	AWG #	Insulation O.D. (mm)	
SVH-21T-P1.1	0.33 to 0.83	22 to 18	1.7 to 3.0	4,500

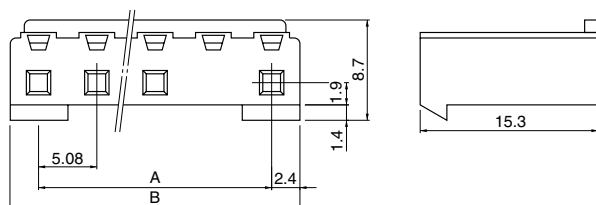
Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Note: Contact JST for brass products.

Housing



Cir- cuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	VBR- 2	5.08	9.88	1,000
2	VBR- 2(3)	10.16	14.96	1,000
3	VBR- 3	10.16	14.96	1,000
3	VBR- 3(4)	15.24	20.04	1,000
4	VBR- 4	15.24	20.04	1,000
4	VBR- 4(5)	20.32	25.12	1,000
5	VBR- 5(6)	25.40	30.20	500
6	VBR- 6(7)	30.48	35.28	500
7	VBR- 7(8)	35.56	40.36	500
8	VBR- 8(9)	40.64	45.44	500
9	VBR- 9(10)	45.72	50.52	500
12	VBR-12(13)	60.96	65.76	200

Material

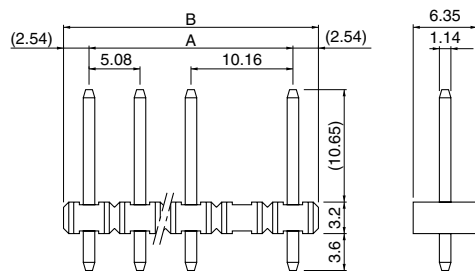
PA 6, UL94V-0, natural (white)

RoHS compliance

VB CONNECTOR

Header

Top entry type of PBT



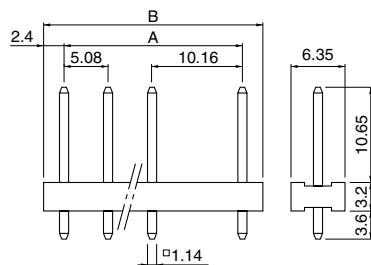
Cir- cuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	B 2P -VB-2	5.08	10.16	1,000
2	B 2P 3-VB-2	10.16	15.24	500
3	B 3P -VB-2	10.16	15.24	500
3	B 3P 4-VB-2	15.24	20.32	500
4	B 4P -VB-2	15.24	20.32	500
4	B 4P 5-VB-2	20.32	25.40	250
5	B 5P 6-VB-2	25.40	30.48	250
6	B 6P 7-VB-2	30.48	35.56	200
7	B 7P 8-VB-2	35.56	40.64	200
8	B 8P 9-VB-2	40.64	45.72	200
9	B 9P10-VB-2	45.72	50.80	100
12	B12P13-VB-2	60.96	66.04	100

Material and Finish

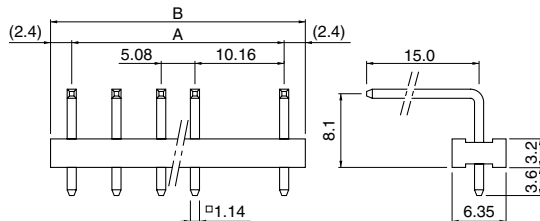
Post: Brass copper-undercoated, tin-plated (reflow treatment)
Wafer: PBT, UL94V-0, natural (white)

RoHS compliance This product displays (LF)(SN) on a label.

Top entry type of nylon



Side entry type of nylon



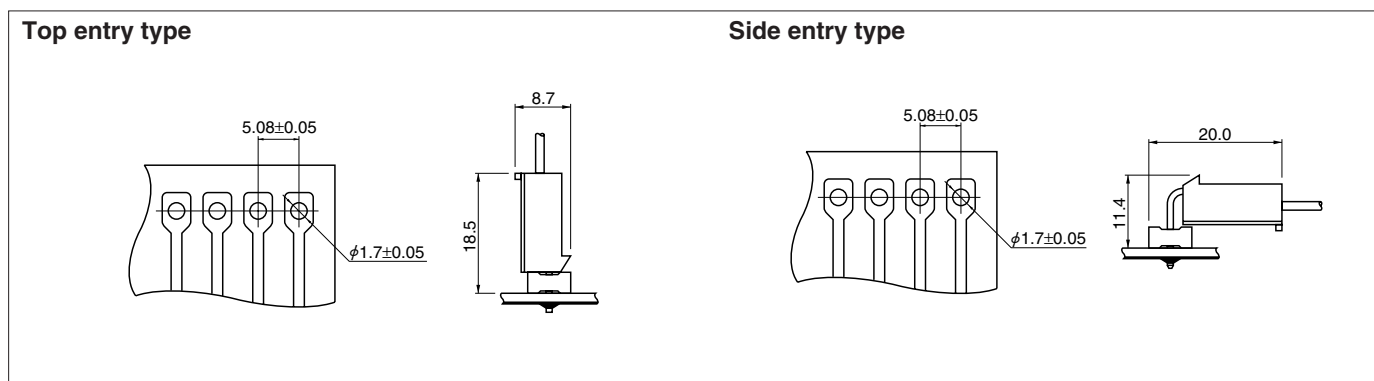
Cir- cuits	Model No.		Dimensions (mm)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
2	B 2P -VB	B 2P S-VB	5.08	9.88	1,000	1,000
2	B 2P 3-VB	—	10.16	14.96	500	—
3	B 3P 4-VB	B 3P 4S-VB	15.24	20.04	500	250
4	B 4P 5-VB	B 4P 5S-VB	20.32	25.12	250	200
5	B 5P 6-VB	B 5P 6S-VB	25.40	30.20	250	200
6	B 6P 7-VB	B 6P 7S-VB	30.48	35.28	200	100
7	B 7P 8-VB	B 7P 8S-VB	35.56	40.36	200	100
8	B 8P 9-VB	B 8P 9S-VB	40.64	45.44	200	100
9	B 9P10-VB	B 9P10S-VB	45.72	50.52	100	100
12	B12P13-VB	B12P13S-VB	60.96	65.76	100	100

Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, natural (white)

RoHS compliance This product displays (LF)(SN) on a label.

PC board layout (viewed from soldering side) and Assembly layout



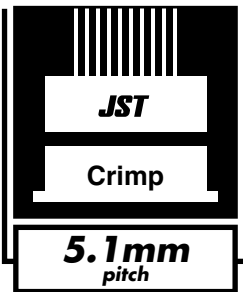
Note:

1. Tolerances are non-cumulative: ± 0.05 mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Crimping machine, Applicator

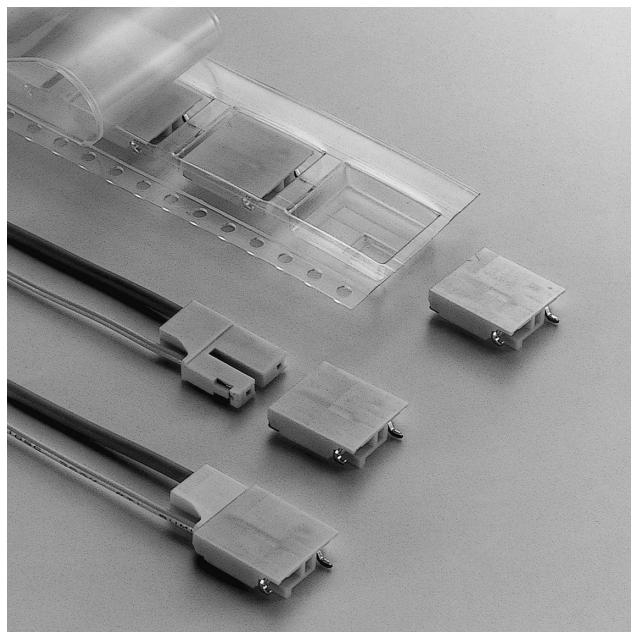
Contact	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies
SVH-21T-P1.1	AP-K2N	MKS-L	MK/SVH-21-11	APLMK SVH21-11
		*MKS-SC	SC/SVH-21-11	APLSC SVH21-11

Note: *Strip-crimp applicator

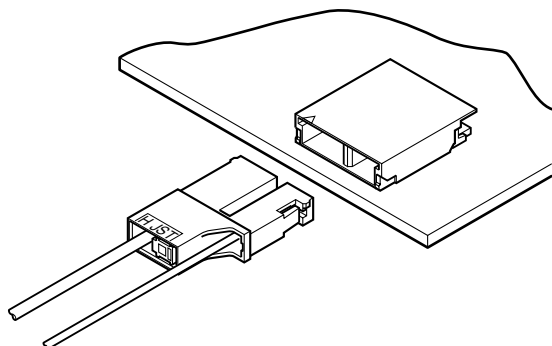


BHT CONNECTOR

Disconnectable Crimp style connectors



Low profile connectors with high withstanding voltage, designed for connecting liquid crystal display backlight lamps to their starters.



Features

• High withstanding voltage

Conforming to IEC664-1 standards, the BHT connector is designed to have a enough electrical creep distances at the high-voltage side. Thus, compared to the conventional power supply connector for liquid crystal display backlight lamps, higher voltage is guaranteed.

• Low profile

Only 2.8mm height.

• Housing construction

Housing is of 2-piece construction, to prevent the contact for the higher voltage side from being exposed, while the lower voltage side is designed to be shorter for easy insertion of the contact even with thin wires.

Specifications

- Current rating: 1.0A AC, DC (AWG #24)
- Voltage rating: 1,500V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 4,000V AC/minute
- Applicable wire: AWG #28 to #24
Insulation O.D./0.9 to 1.7mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

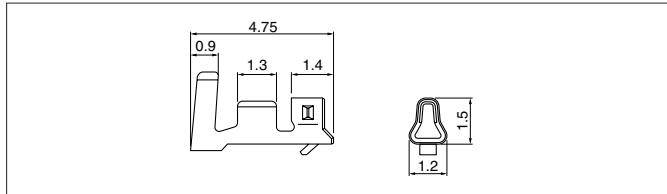
Standards

Recognized E60389

Certified LR20812

BHT CONNECTOR

Contact



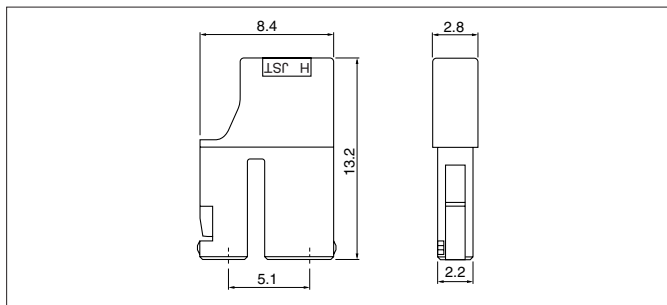
Model No.	Applicable wire			Q'ty / reel
	mm ²	AWG #	Insulation O.D. (mm)	
SBHT-002T-P0.5	0.08 to 0.22	28 to 24	0.9 to 1.7	10,000

Material and Finish

Copper alloy, tin-plated (reflow treatment)

RoHS compliance

Housing



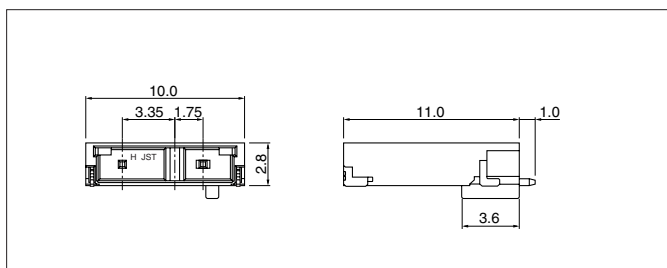
Circuits	Model No.	Q'ty / box
2	BHTR-02VS	1,000

Material

PBT, UL94V-0, natural (white)

RoHS compliance

Shrouded header



Circuits	Model No.	Q'ty / reel
2	SM02B-BHTS-B-TB	1,250

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

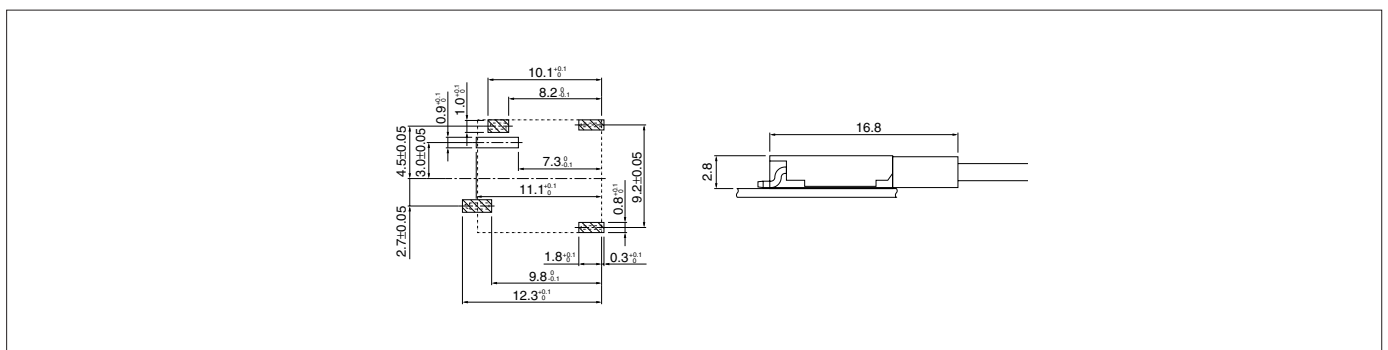
Wafer : PA 6T, UL94V-0, natural (ivory)

Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Note: The products listed above are supplied on embossed tape.

PC board layout (viewed from component side) and Assembly layout



Note:

1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.

2. The dimensions above should serve as a guideline. Contact JST for details.

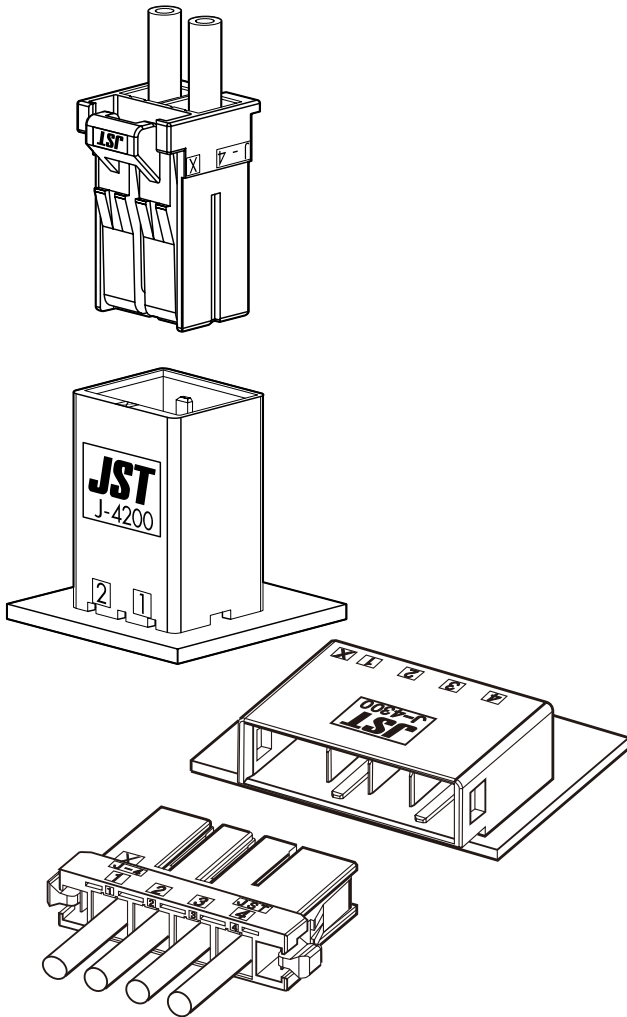
Crimping machine, Applicator

Contact	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies
SBHT-002T-P0.5	AP-K2N	MKS-L	MK/SBHT-002-05	APLMK SBHT002-05
		-	-	-



JFA CONNECTOR J4000 SERIES

6.0/6.35mm pitch/Disconnectable Crimp style connectors



Compact and high current capacity connector.
This connector realizes high-density mounting on PC board.

- High current capacity
- Housing lance
- Countermeasure for insertion of foreign substances (with protector)

Specifications

- Current rating: Refer to the following matrix table.
- Voltage rating: 600V AC, DC
- Temperature range: -55°C to +105°C
 (including temperature rise in applying electrical current)
- Withstanding voltage: 2,200V AC/minute
- Applicable wire: AWG #16 to #12 (1.25 to 3.5mm²)
- Applicable PC board thickness: 1.6 to 2.4mm

*Contact JST for details.

*Compliant with RoHS.

Current rating

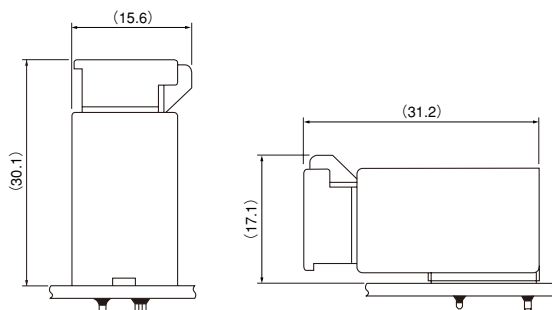
Unit: A

Circuits	Wire size (AWG)		
	#12	#14	#16
2	22.0	18.0	14.0
3	20.0	17.0	13.5
4	19.0	16.0	13.0
6	18.0	16.0	12.5

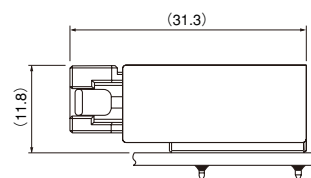
Standards

Recognized E60389

J4200

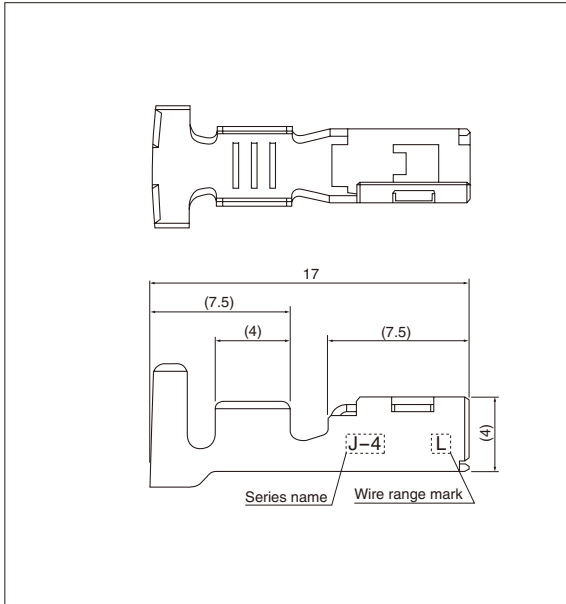


J4300



JFA CONNECTOR/J4000 SERIES

Receptacle contact



Model No.		Applicable wire			Insulation O.D. (mm)	Q'ty	
Strip contact	Loose piece contact	Nominal	mm ²	AWG#		reel	box (Loose piece)
SJ4F-71GF-M3.0	BJ4F-71GF-M3.0	M	1.25~2.0	16~14	2.0~3.8	1,400	350
SJ4F-81GF-M3.0	BJ4F-81GF-M3.0	L	2.0~3.5	14~12	2.9~4.2	1,400	350

Material and Finish

Copper alloy (superior conductivity), nickel-undercoated, selective gold-plated

RoHS compliance

Note: Finish(GF): Nickel-undercoated, 0.38 μ m selective gold-plated

Crimping machine, Applicator

Strip contact Model No.	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies
SJ4F-71GF-M3.0	AP-K2N	MKS-L-SIN3	MK/SJ4F-71-30	APLMK SJ4F71-30
SJ4F-81GF-M3.0			MK/SJ4F-81-30	APLMK SJ4F81-30

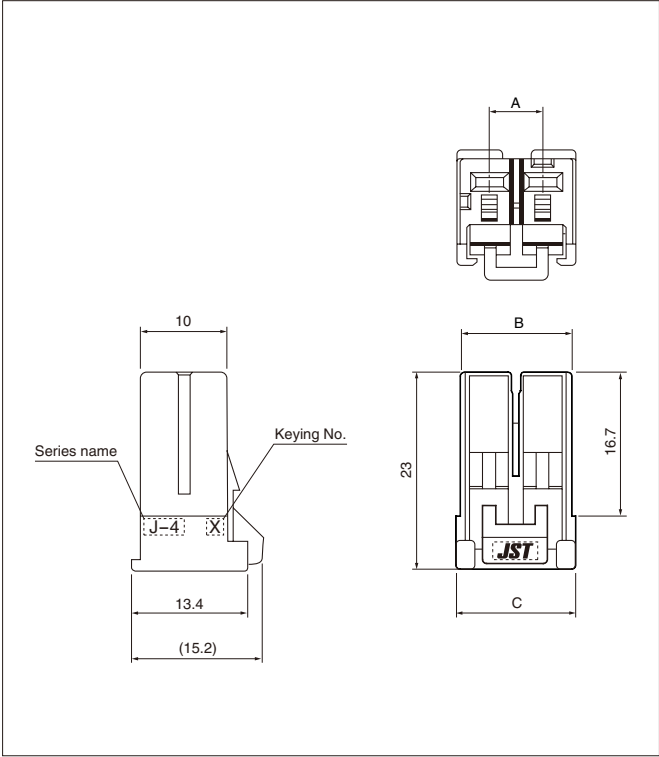
Loose piece	Hand crimp tools
BJ4F-71GF-M3.0	YRF-1130
BJ4F-81GF-M3.0	YRF-1370

Extraction tool for J4000 series : EJ-JFAJ4

Note: Contact JST for fully automatic crimping applicator.

J4000 SERIES/J4200S

Receptacle housing



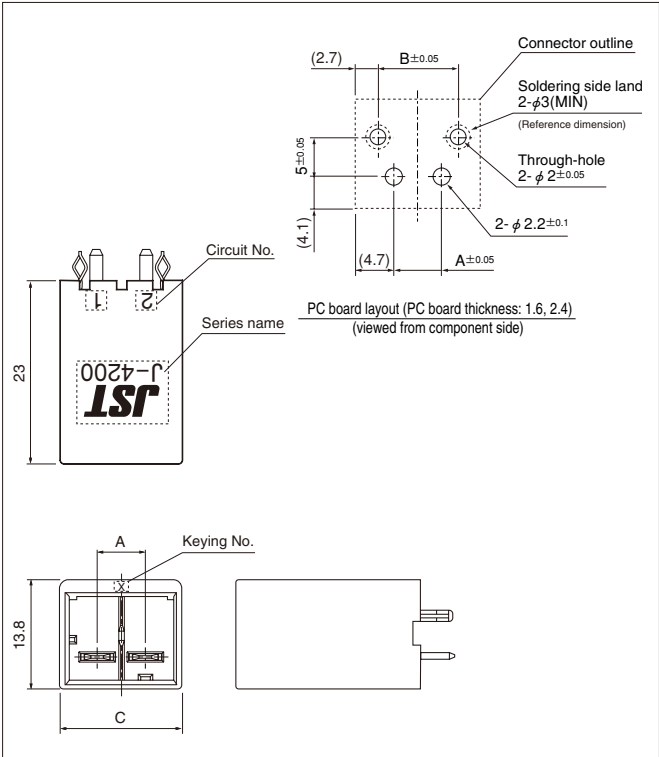
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
2	X	J42FSC-02V-KX	6.0	12.8	13.6	200
	Y	J42FSC-02V-KY	6.0	12.8	13.6	200
3	X	J42FSC-03V-KX	12.0	18.8	19.6	130
	Y	J42FSC-03V-KY	12.0	18.8	19.6	130
6	X	J42FSC-06V-KX	30.0	36.8	37.6	70
	Y	J42FSC-06V-KY	30.0	36.8	37.6	70

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Header (Top entry type)



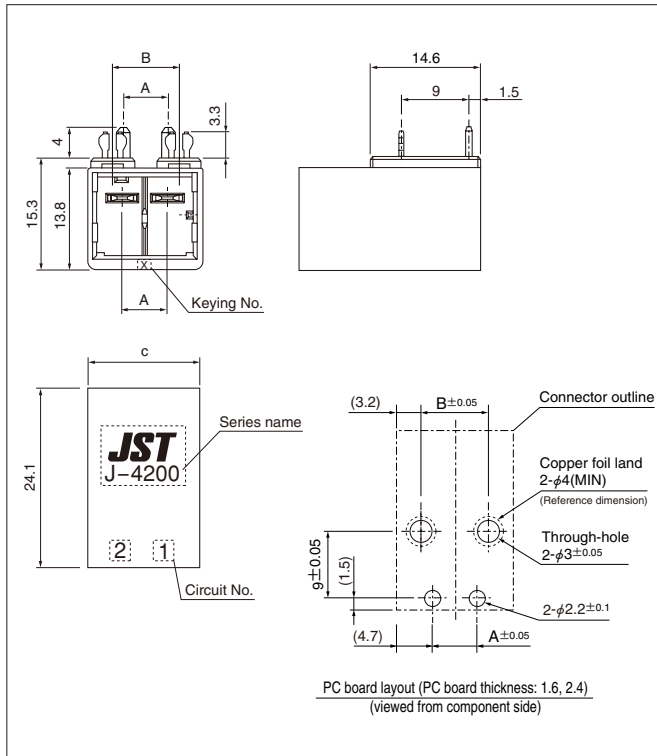
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
2	X	BC02B-J42SK-GHXR	6.0	10.0	15.4	168
	Y	BC02B-J42SK-GHYR	6.0	10.0	15.4	168
3	X	BC03B-J42SK-GHXR	12.0	16.0	21.4	90
	Y	BC03B-J42SK-GHYR	12.0	16.0	21.4	90
6	X	BC06B-J42SK-GHXR	30.0	34.0	39.4	45
	Y	BC06B-J42SK-GHYR	30.0	34.0	39.4	45

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance

Header (Side entry type)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
2	X	SC02B-J42SK-GHXR	6.0	9.0	15.4	120
	Y	SC02B-J42SK-GHYR	6.0	9.0	15.4	120

Material and Finish

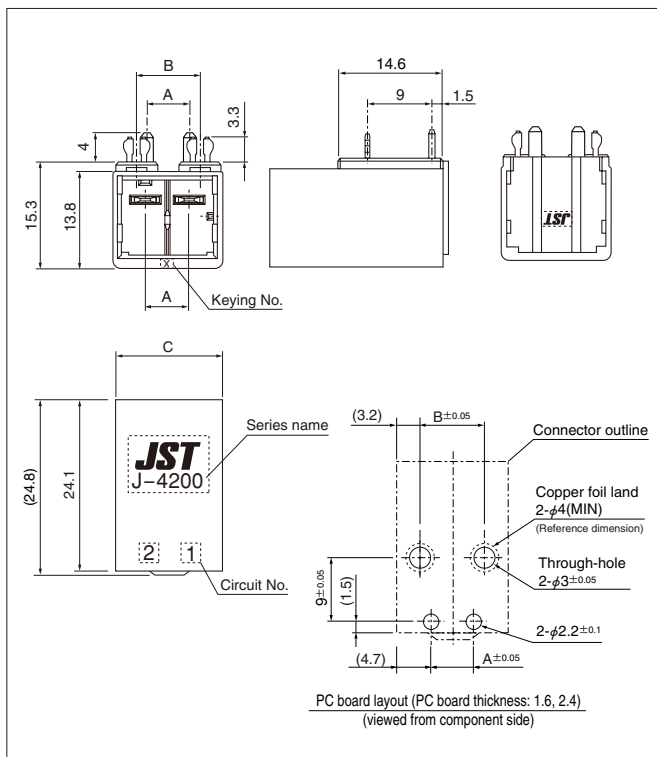
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

Housing: Glass-filled PBT, UL94V-0, black

Reinforcing metal fixture: Copper alloy, nickel-undercoated, gold-plated

RoHS compliance

Header (Side entry type with protector)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
2	X	SC02B-J42SK-GHXPR	6.0	9.0	15.4	120
	Y	SC02B-J42SK-GHYPR	6.0	9.0	15.4	120

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

Housing: Glass-filled PBT, UL94V-0, black

Reinforcing metal fixture: Copper alloy, nickel-undercoated, gold-plated

Protector: Glass-filled PBT, UL94V-0, black

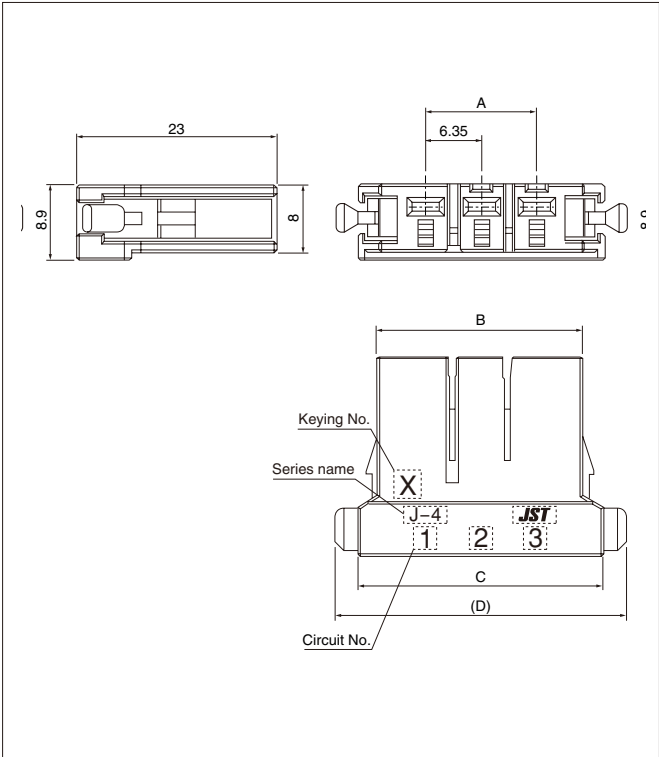
RoHS compliance

(Patent pending)

When applying a current to the connector, the protector prevents foreign substances being inserted into mating part from the back of the connector.

J4000 SERIES/J4300S

Receptacle housing

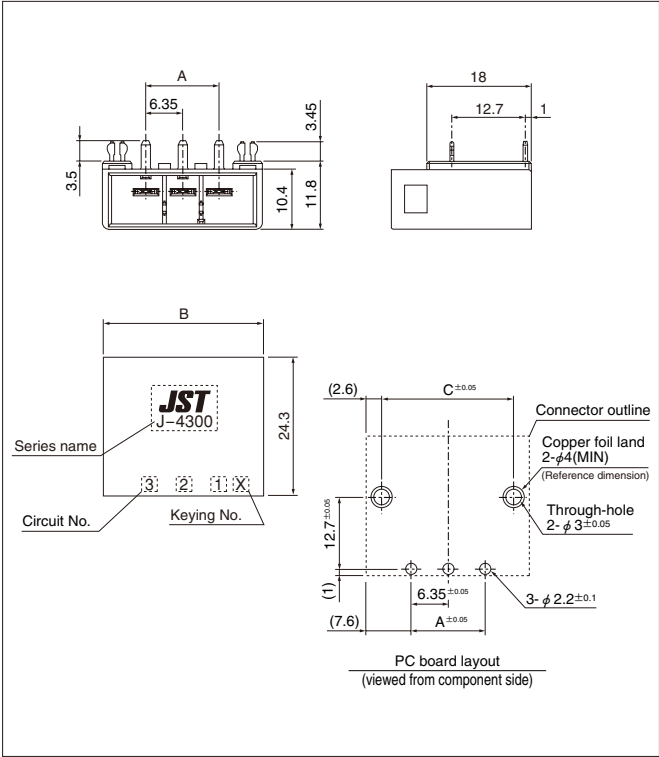


Circuits	Keying	Model No.	Dimensions (mm)				Q'ty / bag
			A	B	C	D	
3	X	J43FSS-03V-KX	12.7	23.8	28.5	33.7	200
	Y	J43FSS-03V-KY	12.7	23.8	28.5	33.7	200
4	X	J43FSS-04V-KX	19.05	30.15	34.85	40.05	200
	Y	J43FSS-04V-KY	19.05	30.15	34.85	40.05	200

Material							
Glass-filled PBT, UL94V-0, black							

RoHS compliance

Header (Top entry type)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
3	X	S03B-J43SK-GHXR	12.7	27.9	22.7	64
	Y	S03B-J43SK-GHYR	12.7	27.9	22.7	64
4	X	S04B-J43SK-GHXR	19.05	34.25	29.05	48
	Y	S04B-J43SK-GHYR	19.05	34.25	29.05	48

Material and Finish						
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated						
Housing: Glass-filled PBT, UL94V-0, black						
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated						

RoHS compliance

JFA CONNECTOR/J4000 SERIES

Model number identification

Receptacle contact

S J4 F - 71 GF - M 3.0

Form: S...Strip form, B...Loose piece
Series name
Kind of terminal: F...Receptacle contact
Applicable wire: 71...AWG #16 ~ #14
81...AWG #14 ~ #12
Surface finish: GF...Nickel-undercoated, 0.38μm selective gold-plated
Material: M...Copper alloy
Terminal size

Receptacle housing

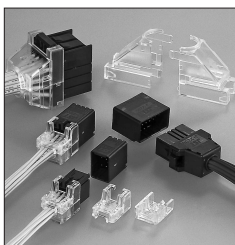
J42 F S C - 02 V - K X

Series name J42...6.0mm pitch
J43...6.35mm pitch
Type of connector: F...Receptacle housing
Rows: S...Single-row
Configuration: C...Center locking
S...Side locking
No. of circuits: 2, 3, 4, 6
Flammability: V...UL94V-0
Color indication: K...Black
Keying: X...X-Keying, Y...Y-Keying

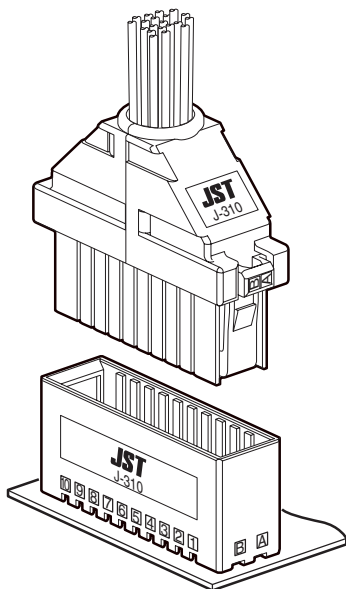
Header

SC 02 B -J42 S K - GH X P R

Form: BC...Top & center locking
SC...Side & center locking
S...Side locking
No. of circuits: 2, 3, 4, 6
Product name: Header
Series name: J42...6.0mm pitch
J43...6.35mm pitch
Rows: S...Single-row
Color indication: K...Black
Surface finish: GH...Nickel-undercoated, selective gold-plated
Keying: X...X-Keying, Y...Y-Keying
Special product: P...With protector, Blank...Standard product
Packaging form: R...Tray, M...Magazine stick



JFA CONNECTOR/PROTECTOR

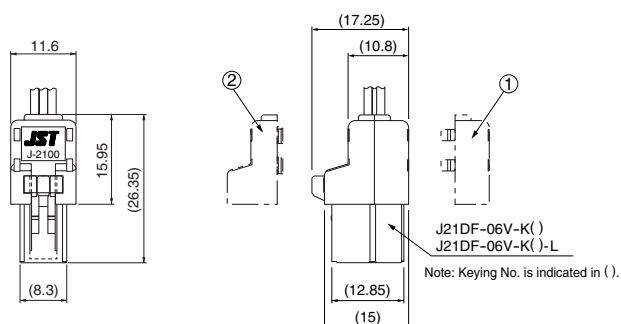


Note: Protector is not UL/CSA/TÜV approved

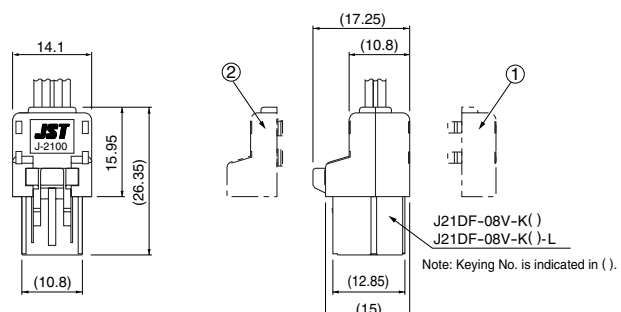
When applying a current to the connector, the protector prevents foreign substances being inserted into mating part from the wiring side. However it has no function of holding the wire securely.

J2000 Series

•J2100 series for 6 circuits



•J2100 series for 8 circuits



No.	Model No.	Color
①	J21PF-06SCA	Transparent
②	J21PF-06SCB	Transparent

Material

Polycarbonate

RoHS compliance

No.	Model No.	Color
①	J21PF-08SCA	Transparent
②	J21PF-08SCB	Transparent

Material

Polycarbonate

RoHS compliance

JFA CONNECTOR/PROTECTOR

J2000 Series

•J2100 series for 10 circuits

J21DF-10V-K()-L
Note: Keying No. is indicated in ().

No.	Model No.	Color
①	J21PF-10SCA	Transparent
②	J21PF-10SCB	Transparent
Material		
Polycarbonate		

RoHS compliance

•J2100 series for 16 circuits

J21DF-16V-K()-L
Note: Keying No. is indicated in ().

No.	Model No.	Color
①	J21PF-16SCA	Transparent
②	J21PF-16SCB	Transparent
Material		
Polycarbonate		

RoHS compliance

•J2100 series for 20 circuits

J21DF-20V-K()-L
Note: Keying No. is indicated in ().

No.	Model No.	Color
①	J21PF-20SCA	Transparent
②	J21PF-20SCB	Transparent
Material		
Polycarbonate		

RoHS compliance

•J2200 series for 10 circuits

J22DF-10V-K()
Note: Keying No. is indicated in ().

No.	Model No.	Color
①	J22PF-10VK	Black
Material		
Glass-filled PBT		

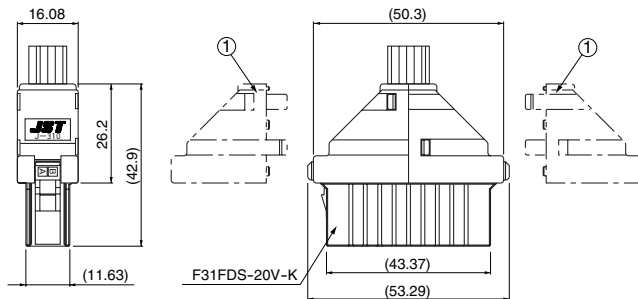
RoHS compliance

Note: Two protectors are used.

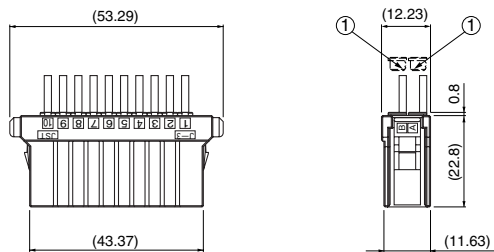
JFA CONNECTOR/PROTECTOR

J300 Series

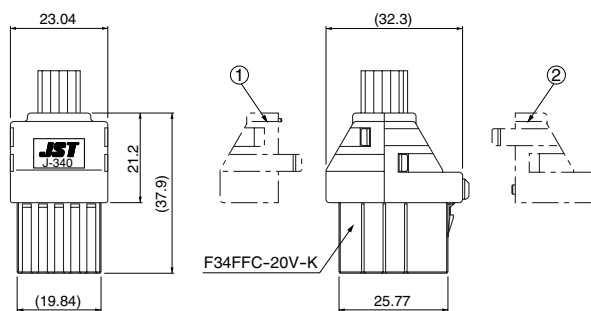
•J310D series for 20 circuits



•J310D series / Embedding-type protector for 8, 10 circuits



•J340F series for 20 circuits



No.	Model No.	Color
①	F31PFD-20VK	Black
①	F31PFD-20SC	Transparent

Material

Black: Glass-filled PBT
Transparent: Polycarbonate

RoHS compliance

Note: Two protectors of the same color are used.

No.	Model No.	Color
①	F31PFS-10KU	Black

Material

Glass-filled PBT

RoHS compliance

Note: This protector is cut and used for each number of circuits.

No.	Model No.	Color
①	F34PFF-20VKA	Black
	F34PFF-20SCA	Transparent
②	F34PFF-20VKB	Black
	F34PFF-20SCB	Transparent

Material

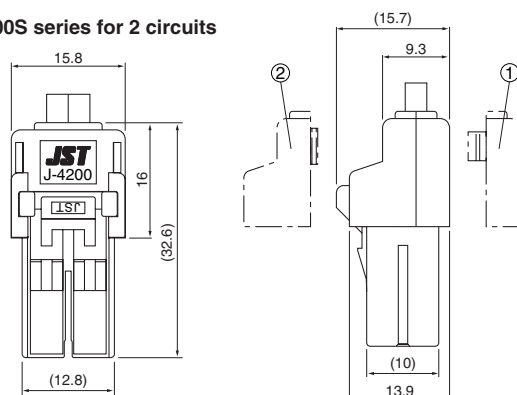
Black: Glass-filled PBT
Transparent: Polycarbonate

RoHS compliance

Note: Both 1 and 2 protectors in the same color are used.

J4000 Series

•J4200S series for 2 circuits



No.	Model No.	Color
①	J42PF-02SCA	Transparent
②	J42PF-02SCB	Transparent

Material

Polycarbonate

RoHS compliance

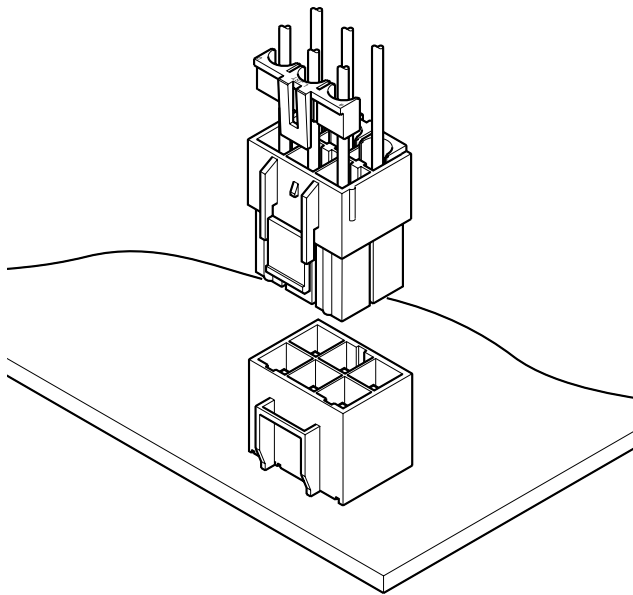
(Patent pending)

When applying a current to the connector, the protector prevents foreign substances being inserted into mating part from the wiring side. However it has no function of holding the wire securely.



VL CONNECTOR

6.2mm pitch/Disconnectable Crimp style connectors



This VL connector is designed for wire-to-wire and wire-to-board 6.2mm pitch connector corresponding to large current. Secondary retainer, which prevents from insufficient insertion of contact and coming off contact, may use and large current circuit can be connected certainly and safety.

- Housing lances for contact retention
- Secondary retainer
- Suited for large current
- Two kinds of connections

Specifications

- Current rating: 20 A AC, DC (Refer to the table below.)
- Voltage rating: 600 V AC, DC
- Temperature range: -25°C to +90°C (including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 7 mΩ max. After environmental tests/ 10 mΩ max.
- Insulation resistance: 1,000 MΩ min.
- Withstanding voltage: 2,000 VAC/minute
- Applicable wire: AWG #22 to #12
- Applicable PC board thickness: 1.6 mm
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Compliant with RoHS.

Note: The current rating differs depending on the number of circuits and the wire size used in each connector. The table below lists the current rating as a function of the number of circuits and the wire size.

Circuits	Wire size(AWG)					
	# 12	# 14	# 16	# 18	# 20	# 22
2	20	15	10	8	6	4
3	17	14	9	8	6	4
4	16	13	9	7	6	4
6	15	12	8	7	5	3
8	14	11	7	6	5	3
12	13	10	7	6	4	3

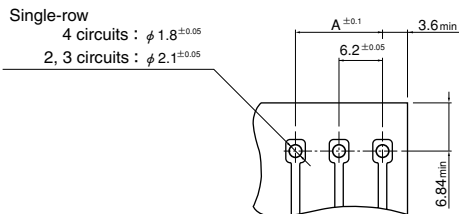
Current unit:A

Note: Do not branch in parallel current which exceeds the rated current (eg. more than 17A in the case of 3 circuits with AWG #12). If branched in parallel, current imbalance or other problems may develop. If it is absolutely necessary to branch such a large current in parallel, design the circuits without causing any imbalance and provide an extra margin for each circuit.

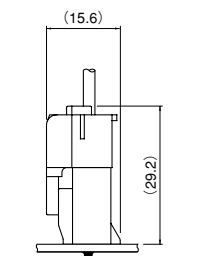
Standards

- Recognized E60389
- Certified LR20812
- R9351103

<2, 3, Single-row 4 circuits>

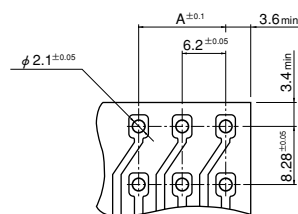


Inner-housing lock

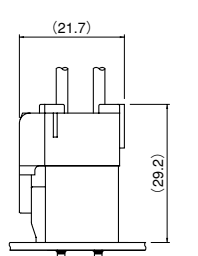


Outer-housing lock

<4, 6, 8, 12 circuits>



Inner-housing lock



Outer-housing lock

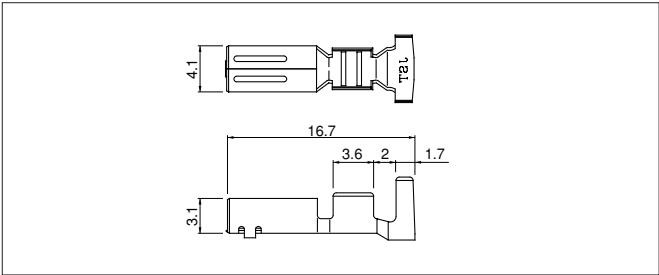
Note: 1. The above figure is the figure viewed from soldering side.

2. Tolerances are non-cumulative: ±0.05mm for all centers.

3. Hole dimensions differ according to the type of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

VL CONNECTOR

Contact



Model No.	Applicable wire		Insulation O.D.(mm)	Q'ty / reel
	mm²	AWG #		
*SVF-42T-P2.0	0.3~1.25	22~16	1.7~3.2	2,000
SVF-61T-P2.0	0.5~2.0	20~14	1.9~3.4	2,000
SVF-81T-P2.0	3.5	12	4.1	2,000

Material and Finish				
Phosphor bronze, tin-plated (reflow treatment)				

RoHS compliance
Note: *Marked product is not TÜV approved.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SVF-42T-P2.0	AP-K2N	MKS-L	MK/SVF/M-42-20	APLMK SVF/M42-20
		—	—	—
SVF-61T-P2.0		MKS-L	MK/SVF/M-61-20	APLMK SVF/M61-20
		—	—	—

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SVF-81T-P2.0	AP-K2N	MKS-L	MK/SVF/M-81-20	APLMK SVF/M81-20
		—	—	—

Housing (Inner-housing lock)

<2 circuits>

<3 circuits>

<4 circuits>

<6 circuits>

<8 circuits>

<12 circuits>

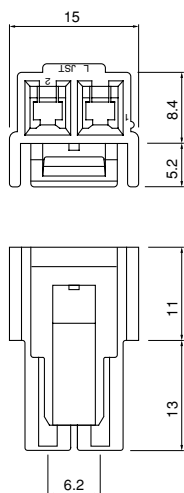
Circuits	Model No.	Q'ty / bag
2	VLP-02V	500
3	VLP-03V	500
4	VLP-04V	500
6	VLP-06V	500
8	VLP-08V	200
12	VLP-12V	100

Material	
PA 66, UL94V-0, natural (white)	

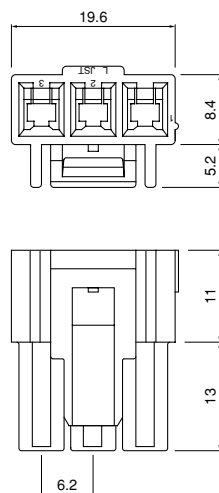
RoHS compliance

Housing (Outer-housing lock)

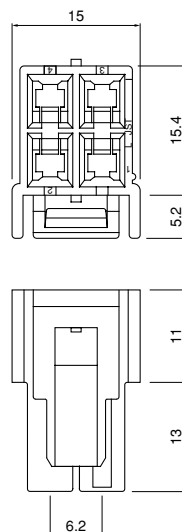
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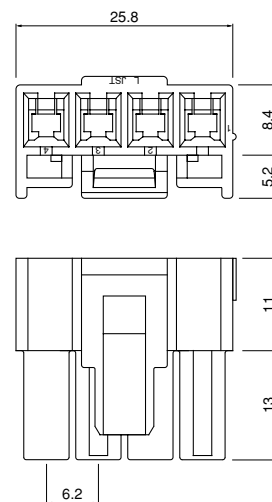
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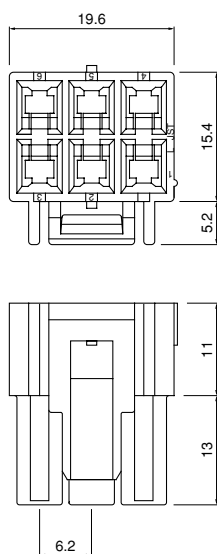
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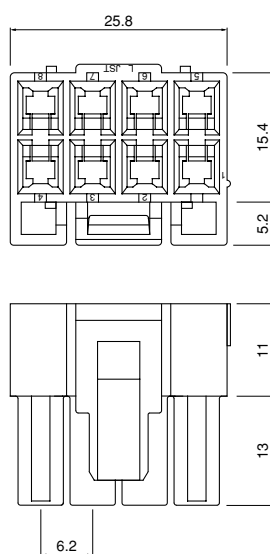
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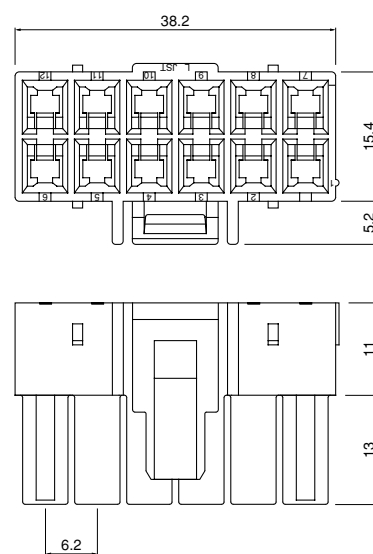
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<8 circuits>



<12 circuits>



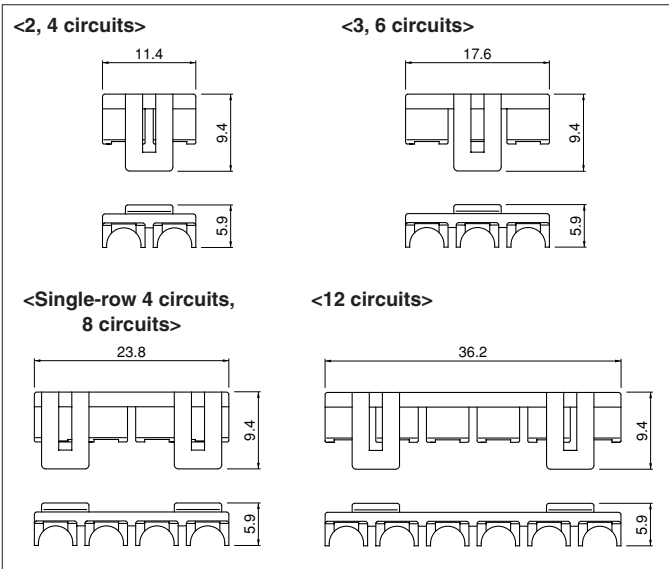
Circuits	Model No.	Q'ty / bag
2	VLP-02V-1	500
3	VLP-03V-1	500
4	VLP-04V-1	500
4(single-row)	VLP-04VN-1	500
6	VLP-06V-1	500
8	VLP-08V-1	200
12	VLP-12V-1	100
Material		

PA 66, UL94V-0, natural (white)

RoHS compliance

VL CONNECTOR

Retainer

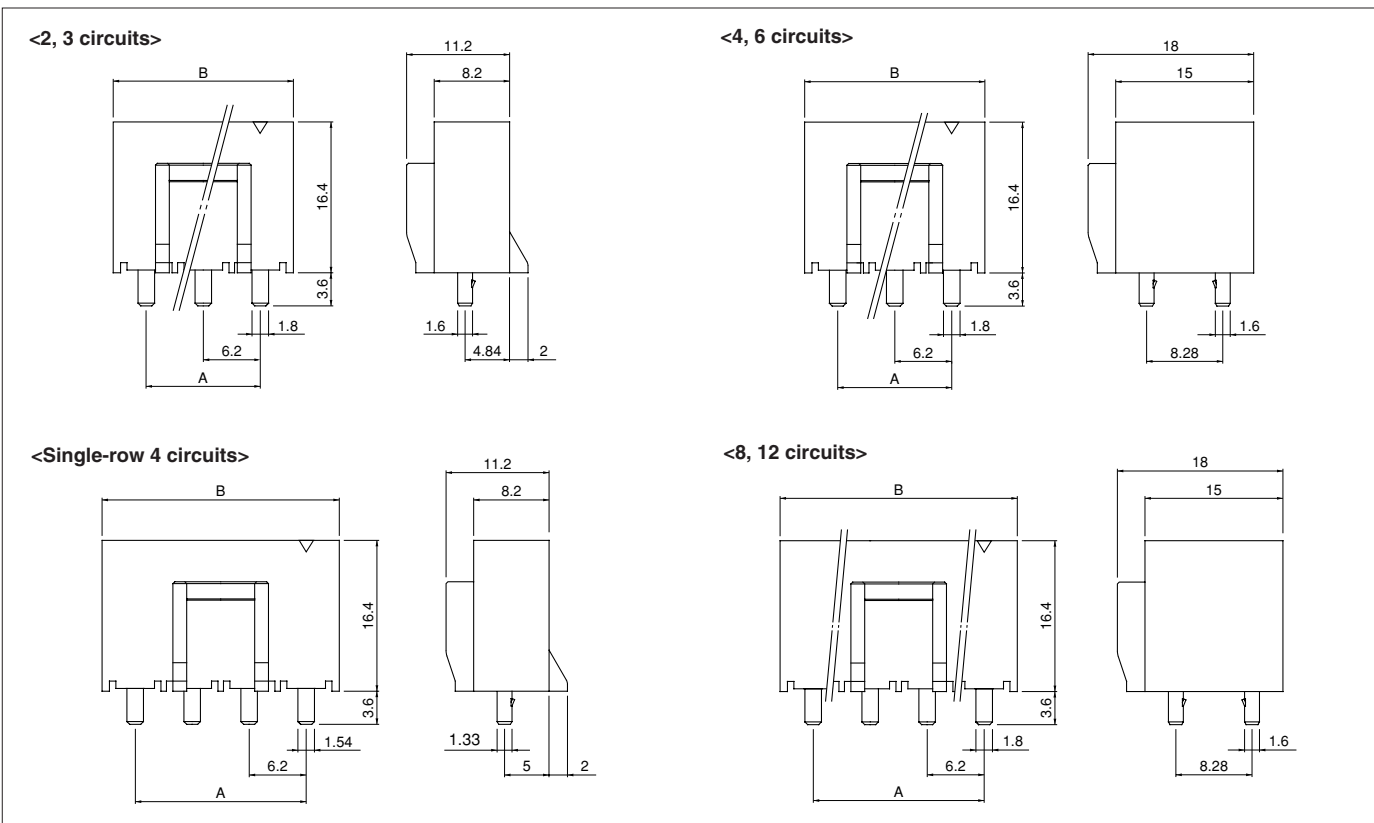


Circuits	Model No.	Q'ty / bag
2, 4	VLS-02V	1,000
3, 6	VLS-03V	1,000
4 (single-row), 8	VLS-08V	1,000
12	VLS-12V	1,000
Material		

Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance

Shrouded header



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	B02P-VL	6.2	13.4	100
3	B03P-VL	12.4	19.6	100
4	B04P-VL	6.2	13.4	100
4 (single-row)	B04P-VL-VN-1.8	18.6	26.2	100
6	B06P-VL	12.4	19.6	50
8	B08P-VL	18.6	26.2	50
12	B12P-VL	31.0	38.6	35

Material and Finish

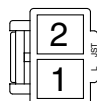
Post: Copper-alloy, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, natural (white)

RoHS compliance

Contact position location numbers

Inner-housing lock

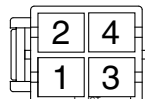
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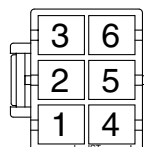
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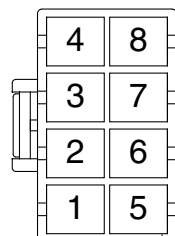
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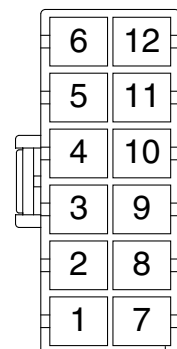
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<8 circuits>

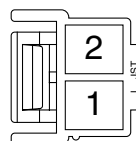


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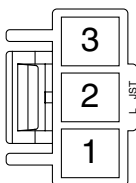


Outer-housing lock

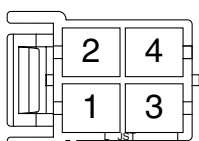
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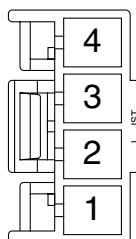
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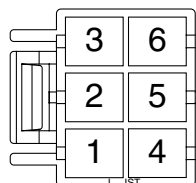
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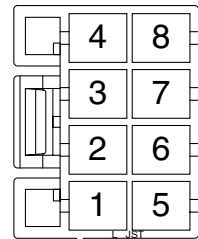
<Single-row
4 circuits>



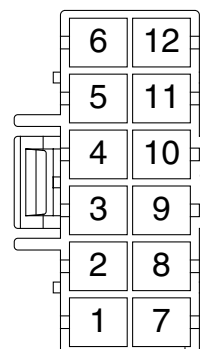
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<8 circuits>



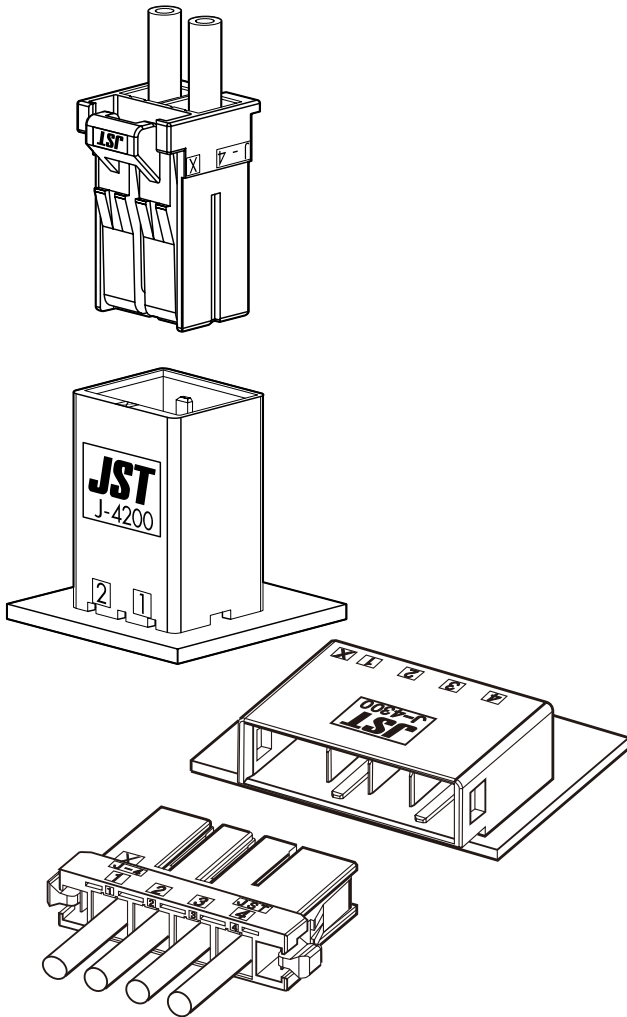
<12 circuits>





JFA CONNECTOR J4000 SERIES

6.0/6.35mm pitch/Disconnectable Crimp style connectors



Compact and high current capacity connector.
This connector realizes high-density mounting on PC board.

- High current capacity
- Housing lance
- Countermeasure for insertion of foreign substances (with protector)

Specifications

- Current rating: Refer to the following matrix table.
- Voltage rating: 600V AC, DC
- Temperature range: -55°C to +105°C
(including temperature rise in applying electrical current)
- Withstanding voltage: 2,200V AC/minute
- Applicable wire: AWG #16 to #12 (1.25 to 3.5mm²)
- Applicable PC board thickness: 1.6 to 2.4mm

*Contact JST for details.

*Compliant with RoHS.

Current rating

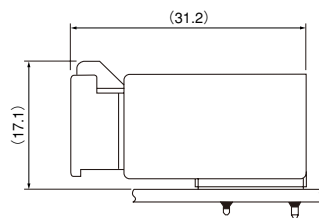
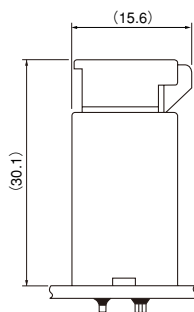
Unit: A

Circuits	Wire size (AWG)		
	#12	#14	#16
2	22.0	18.0	14.0
3	20.0	17.0	13.5
4	19.0	16.0	13.0
6	18.0	16.0	12.5

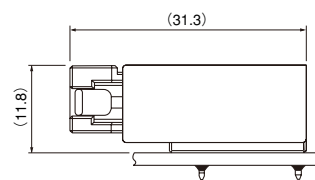
Standards

Recognized E60389

J4200

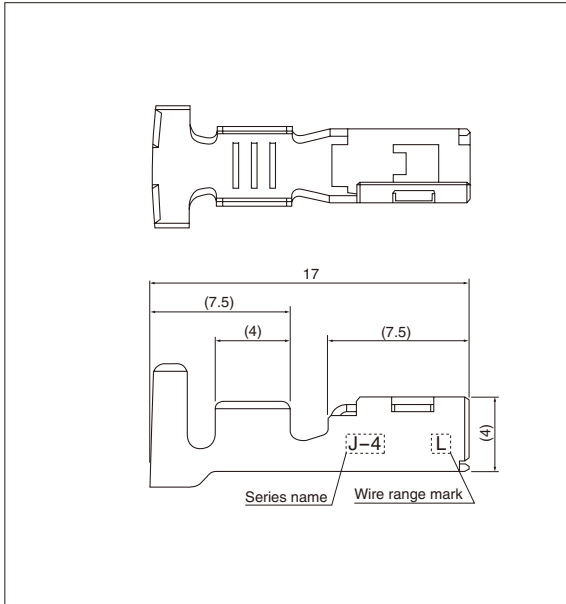


J4300



JFA CONNECTOR/J4000 SERIES

Receptacle contact



Model No.		Applicable wire			Q'ty	
Strip contact	Loose piece contact	Nominal	mm ²	AWG#	Insulation O.D. (mm)	reel box (Loose piece)
SJ4F-71GF-M3.0	BJ4F-71GF-M3.0	M	1.25~2.0	16~14	2.0~3.8	1,400 350
SJ4F-81GF-M3.0	BJ4F-81GF-M3.0	L	2.0~3.5	14~12	2.9~4.2	1,400 350

Material and Finish

Copper alloy (superior conductivity), nickel-undercoated, selective gold-plated

RoHS compliance

Note: Finish(GF): Nickel-undercoated, 0.38 μ m selective gold-plated

Crimping machine, Applicator

Strip contact Model No.	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies
SJ4F-71GF-M3.0	AP-K2N	MKS-L-SIN3	MK/SJ4F-71-30	APLMK SJ4F71-30
SJ4F-81GF-M3.0			MK/SJ4F-81-30	APLMK SJ4F81-30

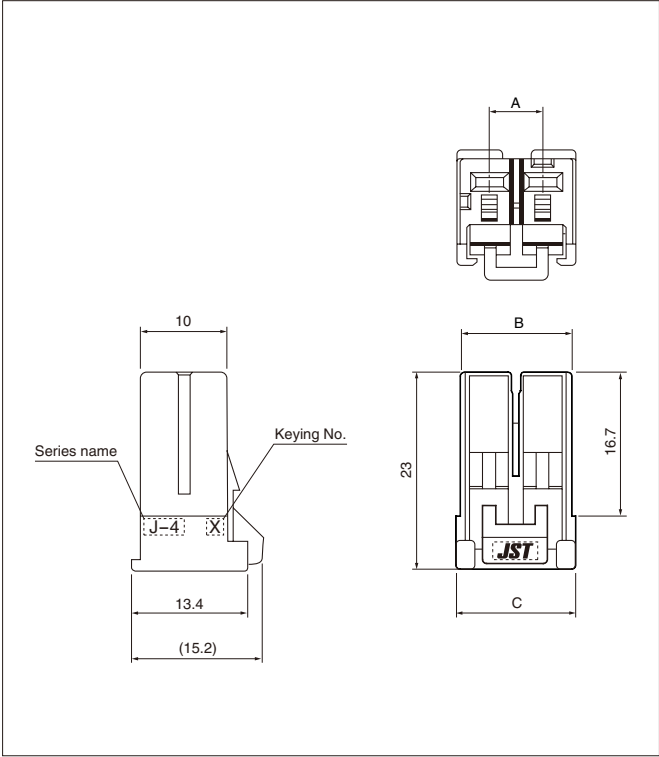
Loose piece	Hand crimp tools
BJ4F-71GF-M3.0	YRF-1130
BJ4F-81GF-M3.0	YRF-1370

Extraction tool for J4000 series : EJ-JFAJ4

Note: Contact JST for fully automatic crimping applicator.

J4000 SERIES/J4200S

Receptacle housing



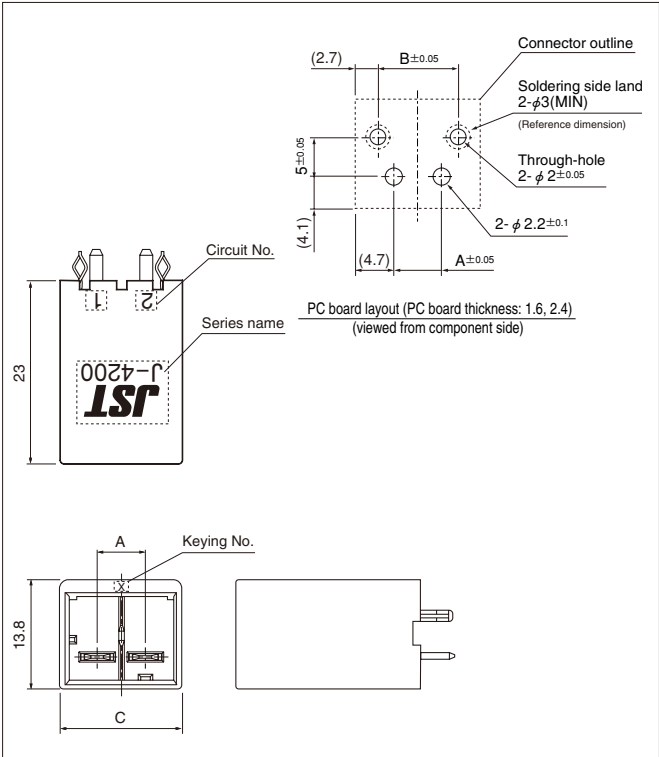
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
2	X	J42FSC-02V-KX	6.0	12.8	13.6	200
	Y	J42FSC-02V-KY	6.0	12.8	13.6	200
3	X	J42FSC-03V-KX	12.0	18.8	19.6	130
	Y	J42FSC-03V-KY	12.0	18.8	19.6	130
6	X	J42FSC-06V-KX	30.0	36.8	37.6	70
	Y	J42FSC-06V-KY	30.0	36.8	37.6	70

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Header (Top entry type)



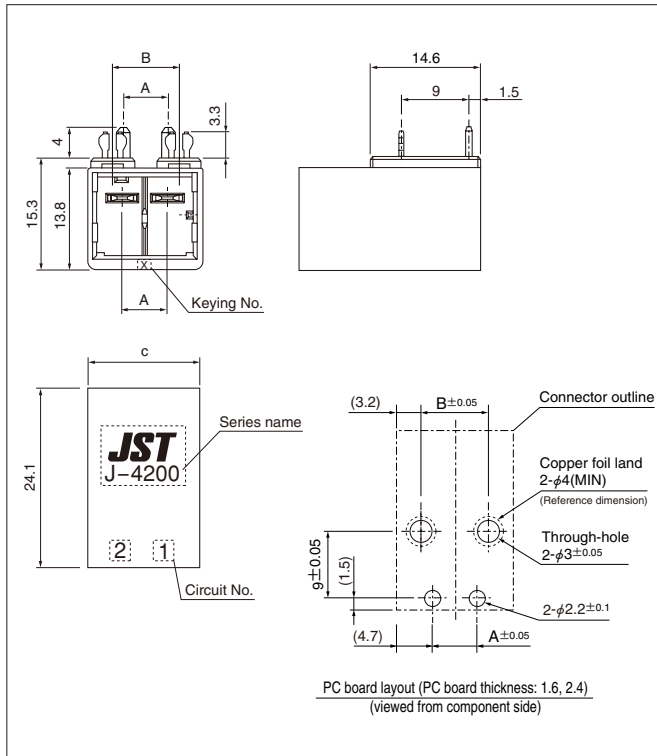
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
2	X	BC02B-J42SK-GHXR	6.0	10.0	15.4	168
	Y	BC02B-J42SK-GHYR	6.0	10.0	15.4	168
3	X	BC03B-J42SK-GHXR	12.0	16.0	21.4	90
	Y	BC03B-J42SK-GHYR	12.0	16.0	21.4	90
6	X	BC06B-J42SK-GHXR	30.0	34.0	39.4	45
	Y	BC06B-J42SK-GHYR	30.0	34.0	39.4	45

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance

Header (Side entry type)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
2	X	SC02B-J42SK-GHXR	6.0	9.0	15.4	120
	Y	SC02B-J42SK-GHYR	6.0	9.0	15.4	120

Material and Finish

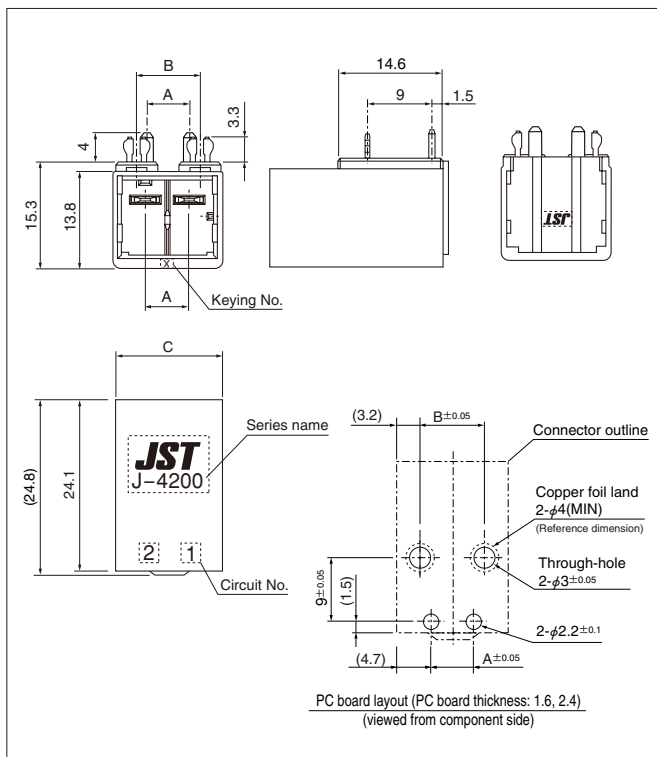
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

Housing: Glass-filled PBT, UL94V-0, black

Reinforcing metal fixture: Copper alloy, nickel-undercoated, gold-plated

RoHS compliance

Header (Side entry type with protector)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
2	X	SC02B-J42SK-GHXPR	6.0	9.0	15.4	120
	Y	SC02B-J42SK-GHYPR	6.0	9.0	15.4	120

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

Housing: Glass-filled PBT, UL94V-0, black

Reinforcing metal fixture: Copper alloy, nickel-undercoated, gold-plated

Protector: Glass-filled PBT, UL94V-0, black

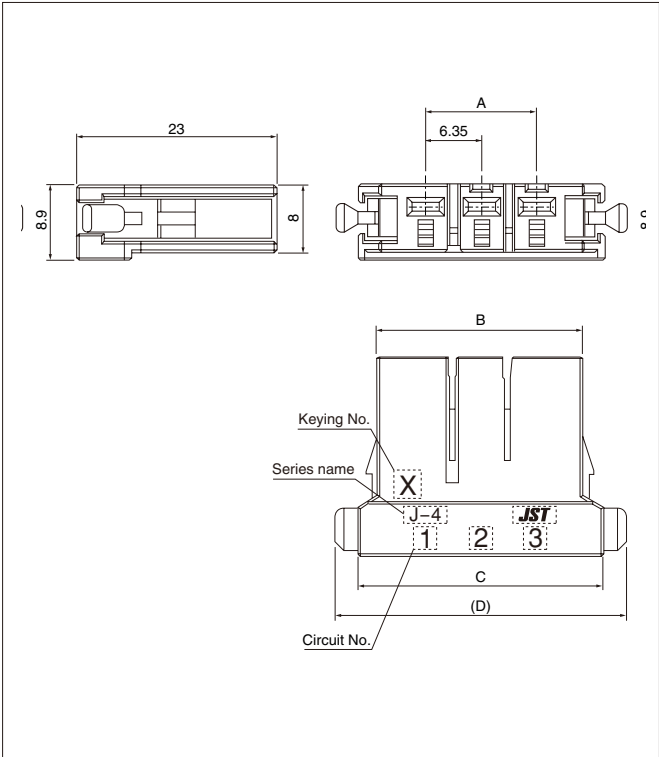
RoHS compliance

(Patent pending)

When applying a current to the connector, the protector prevents foreign substances being inserted into mating part from the back of the connector.

J4000 SERIES/J4300S

Receptacle housing

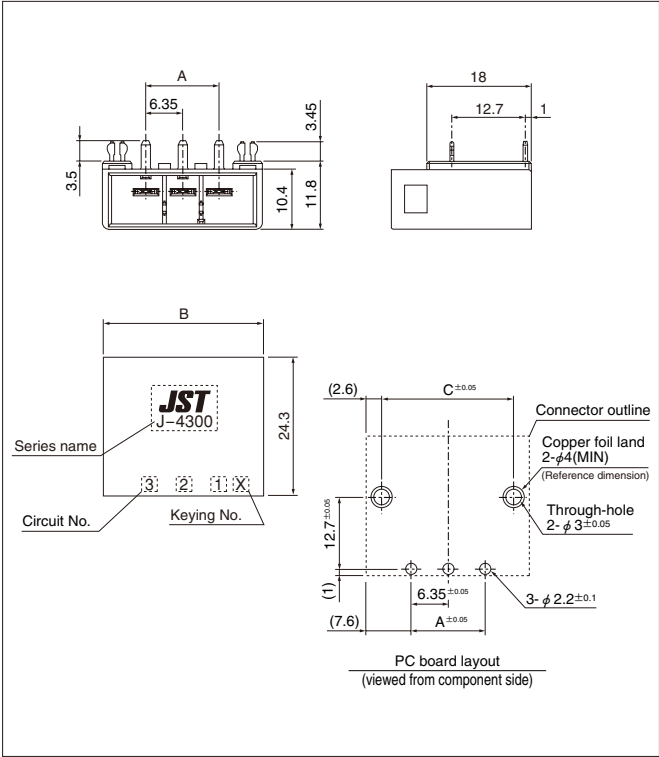


Circuits	Keying	Model No.	Dimensions (mm)				Q'ty / bag
			A	B	C	D	
3	X	J43FSS-03V-KX	12.7	23.8	28.5	33.7	200
	Y	J43FSS-03V-KY	12.7	23.8	28.5	33.7	200
4	X	J43FSS-04V-KX	19.05	30.15	34.85	40.05	200
	Y	J43FSS-04V-KY	19.05	30.15	34.85	40.05	200

Material							
Glass-filled PBT, UL94V-0, black							

RoHS compliance

Header (Top entry type)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
3	X	S03B-J43SK-GHXR	12.7	27.9	22.7	64
	Y	S03B-J43SK-GHYR	12.7	27.9	22.7	64
4	X	S04B-J43SK-GHXR	19.05	34.25	29.05	48
	Y	S04B-J43SK-GHYR	19.05	34.25	29.05	48

Material and Finish						
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated						
Housing: Glass-filled PBT, UL94V-0, black						
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated						

RoHS compliance

JFA CONNECTOR/J4000 SERIES

Model number identification

Receptacle contact

S J4 F - 71 GF - M 3.0

Form: S...Strip form, B...Loose piece

Series name

Kind of terminal: F...Receptacle contact

Applicable wire: 71...AWG #16 ~ #14
81...AWG #14 ~ #12

Surface finish: GF...Nickel-undercoated, 0.38μm selective gold-plated

Material: M...Copper alloy

Terminal size

Receptacle housing

J42 F S C - 02 V - K X

Series name J42...6.0mm pitch
J43...6.35mm pitch

Type of connector: F...Receptacle housing

Rows: S...Single-row

Configuration: C...Center locking
S...Side locking

No. of circuits: 2, 3, 4, 6

Flammability: V...UL94V-0

Color indication: K...Black

Keying: X...X-Keying, Y...Y-Keying

Header

SC 02 B -J42 S K - GH X P R

Form: BC...Top & center locking
SC...Side & center locking
S....Side locking

No. of circuits: 2, 3, 4, 6

Product name: Header

Series name: J42...6.0mm pitch
J43...6.35mm pitch

Rows: S...Single-row

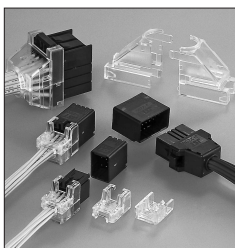
Color indication: K...Black

Surface finish: GH...Nickel-undercoated, selective gold-plated

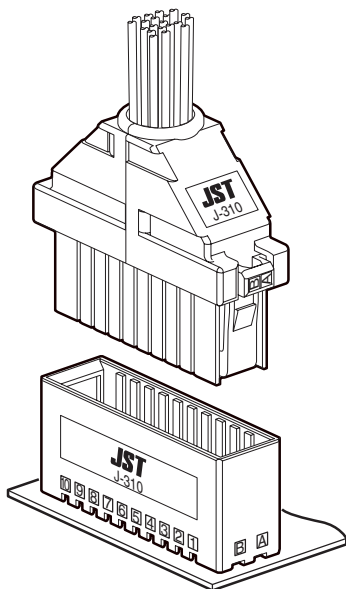
Keying: X...X-Keying, Y...Y-Keying

Special product: P...With protector, Blank...Standard product

Packaging form: R...Tray, M...Magazine stick



JFA CONNECTOR/PROTECTOR

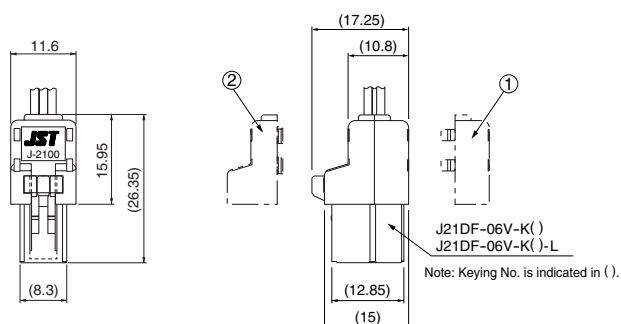


Note: Protector is not UL/CSA/TÜV approved

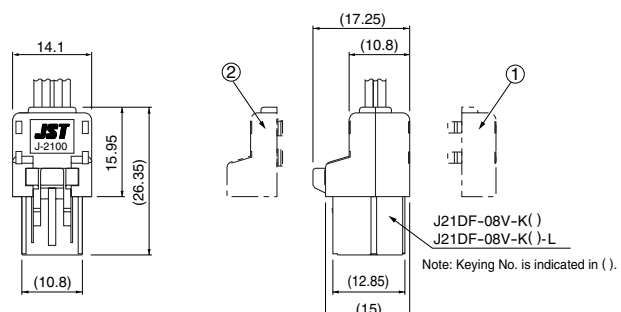
When applying a current to the connector, the protector prevents foreign substances being inserted into mating part from the wiring side. However it has no function of holding the wire securely.

J2000 Series

•J2100 series for 6 circuits



•J2100 series for 8 circuits



No.	Model No.	Color
①	J21PF-06SCA	Transparent
②	J21PF-06SCB	Transparent

Material

Polycarbonate

RoHS compliance

No.	Model No.	Color
①	J21PF-08SCA	Transparent
②	J21PF-08SCB	Transparent

Material

Polycarbonate

RoHS compliance

JFA CONNECTOR/PROTECTOR

J2000 Series

•J2100 series for 10 circuits

No.	Model No.	Color
①	J21PF-10SCA	Transparent
②	J21PF-10SCB	Transparent
Material		
Polycarbonate		

RoHS compliance

•J2100 series for 16 circuits

No.	Model No.	Color
①	J21PF-16SCA	Transparent
②	J21PF-16SCB	Transparent
Material		
Polycarbonate		

RoHS compliance

•J2100 series for 20 circuits

No.	Model No.	Color
①	J21PF-20SCA	Transparent
②	J21PF-20SCB	Transparent
Material		
Polycarbonate		

RoHS compliance

•J2200 series for 10 circuits

No.	Model No.	Color
①	J22PF-10VK	Black
Material		
Glass-filled PBT		

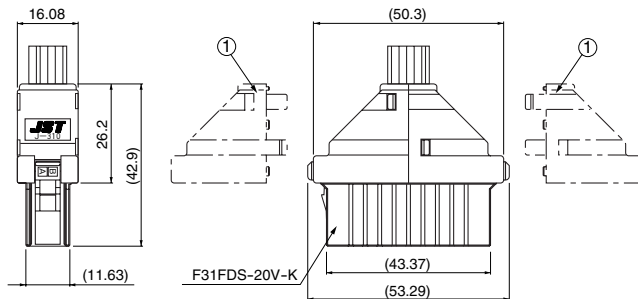
RoHS compliance

Note: Two protectors are used.

JFA CONNECTOR/PROTECTOR

J300 Series

•J310D series for 20 circuits



No.	Model No.	Color
①	F31PFD-20VK	Black
①	F31PFD-20SC	Transparent

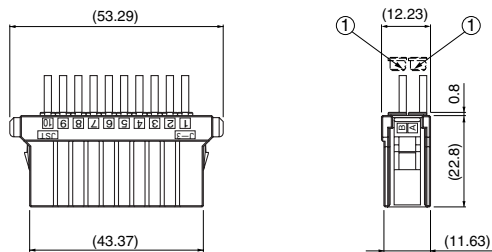
Material

Black: Glass-filled PBT
Transparent: Polycarbonate

RoHS compliance

Note: Two protectors of the same color are used.

•J310D series / Embedding-type protector for 8, 10 circuits



No.	Model No.	Color
①	F31PFS-10KU	Black

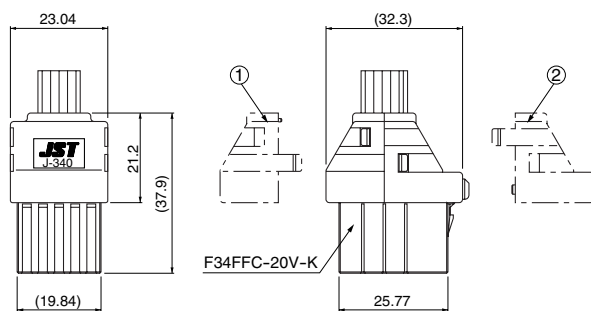
Material

Glass-filled PBT

RoHS compliance

Note: This protector is cut and used for each number of circuits.

•J340F series for 20 circuits



No.	Model No.	Color
①	F34PFF-20VKA	Black
	F34PFF-20SCA	Transparent
②	F34PFF-20VKB	Black
	F34PFF-20SCB	Transparent

Material

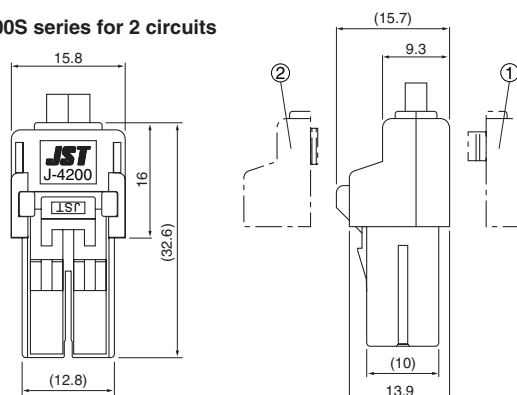
Black: Glass-filled PBT
Transparent: Polycarbonate

RoHS compliance

Note: Both 1 and 2 protectors in the same color are used.

J4000 Series

•J4200S series for 2 circuits



No.	Model No.	Color
①	J42PF-02SCA	Transparent
②	J42PF-02SCB	Transparent

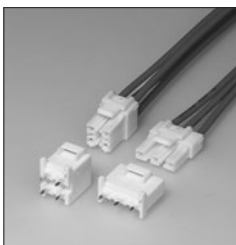
Material

Polycarbonate

RoHS compliance

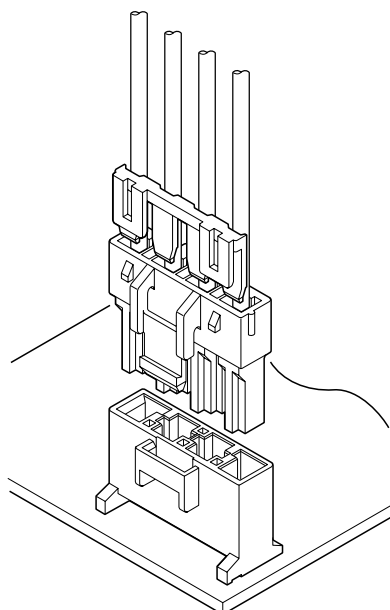
(Patent pending)

When applying a current to the connector, the protector prevents foreign substances being inserted into mating part from the wiring side. However it has no function of holding the wire securely.



VYH CONNECTOR

6.5mm pitch/Disconnectable Crimp style connectors



This VYH connector is designed for wire-to-board 6.5mm pitch connector corresponding to large current. Secondary retainer, which prevents from insufficient insertion of contact and coming off contact, may use and large current circuit can be connected certainly and safely.

- Corresponding to large current
- Misinsertion prevention
- Housing lance for contact retention
- Secondary retainer

Specifications

- Current rating: 15 A AC, DC (2 circuits/ AWG #14)
- Voltage rating: 300 V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 10 mΩ max.
After environmental tests/ 20 mΩ max.
- Insulation resistance: 1,000 MΩ min.
- Withstanding voltage: 1,500 VAC/minute
- Applicable wire: AWG #26 to #14
- Applicable PC board thickness: 1.6 mm

Note: The current rating differs depending on the number of circuits and the wire size used in each connector. The table below lists the current rating as a function of the number of circuits and the wire size.

Circuits	Wire size(AWG)						Current unit:A
	# 14	# 16	# 18	# 20	# 22	# 24	# 26
2	15	10	7	5	4	3	2
3	14	9	6	4	4	3	2
4	13	9	6	4	4	3	2
6	12	8	5	3	3	2	2

Note: Do not branch in parallel current which exceeds the rated current (eg. more than 15A in the case of 2 circuits with AWG #14). If branched in parallel, current imbalance or other problems may develop. If it is absolutely necessary to branch such a large current in parallel, design the circuits without causing any imbalance and provide an extra margin for each circuit.

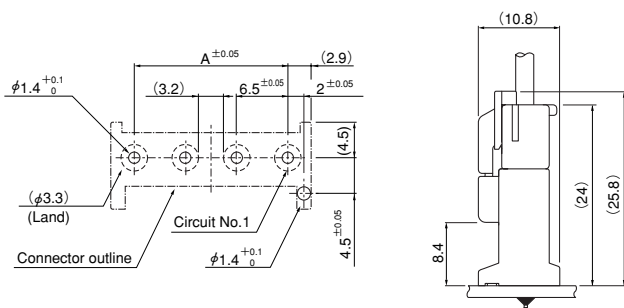
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Compliant with RoHS.

Standards

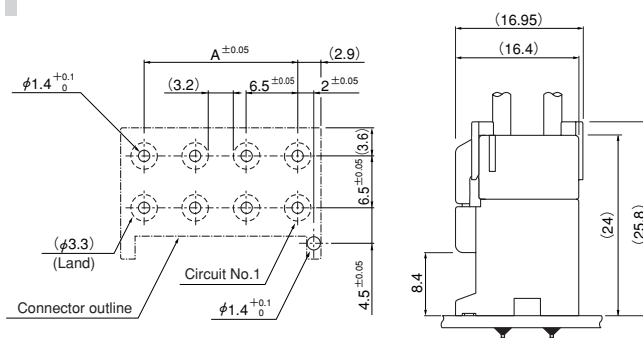
Recognized E60389

R50036139

Single-row type



Double-row type

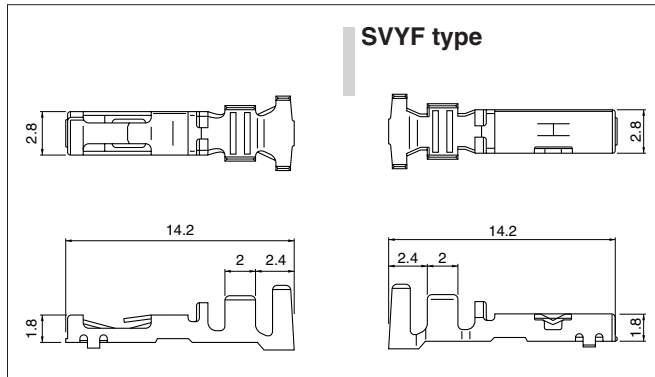


Note: 1. The above figure is the figure viewed from the connector mounting side.

2. Tolerances are non-cumulative: ±0.05mm for all centers.

3. Hole dimensions differ according to the type of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SYF-01T-P0.5A	AP-K2N	MKS-L	MK/SYF/M-01-05	APLMK SYF/M01-05
		*MKS-SC-YL	SC/SYF/M-01-05	APLSC SYF/M01-05
SYF-61T-P0.5A		MKS-L	MK/SYF/M-61-05	APLMK SYF/M61-05
		—	—	—
SVYF-61T-P0.5A		MKS-L	MK/SYF/M-61-05	APLMK SYF/M61-05
		—	—	—

Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SYF-01T-P0.5A	0.13~0.5	26~20	1.3~2.5	4,000
SYF-41T-P0.5A	0.5~1.25	20~16	2.0~3.4	4,000
SYF-61T-P0.5A	0.75~2.0	18~14	2.1~3.4	2,000
*SVYF-41T-P0.5A-13.5	0.5~1.25	20~16	2.0~3.4	4,000
*SVYF-61T-P0.5A	0.75~2.0	18~14	2.1~3.6	2,000

Material and Finish

Copper alloy, tin-plated (reflow treatment)

RoHS compliance

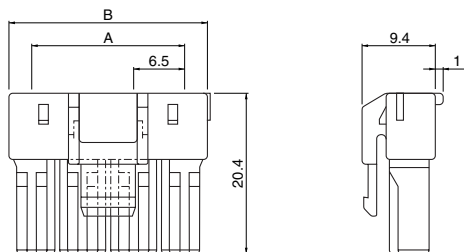
- Note: 1. SVYF type contact was developed only for VYH connector in order to improve the prevention of prying.
 2. Retainer cannot be used when using 41 type contact AWG#16 and 61 type contact.
 3. *Marked product is not TÜV approved.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SYF-41T-P0.5A	AP-K2N	MKS-L	MK/SYF/M-41-05	APLMK SYF/M41-05
		*MKS-SC-YL	SC/SYF/M-41-05	APLSC SYF/M41-05
SVYF-41T-P0.5A-13.5		MKS-L	MK/SYF-41-05-13.5	APLMK SVYF41-05-13.5
		—	—	—

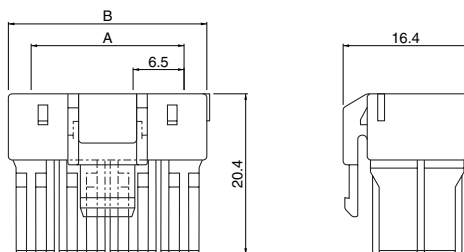
Note: *Strip-crimp applicator

Housing

Single-row type



Double-row type



Type	Circuits	Model No.	Dimensions (mm)		Q'ty / bag
			A	B	
Single-row type	2	VYHP-02V	6.5	12.3	400
	3	VYHP-03V	13.0	18.8	300
	4	VYHP-04V	19.5	25.3	200
Double-row type	4	VYHP-04VD	6.5	12.3	200
	6	VYHP-06VD	13.0	18.8	150

Material

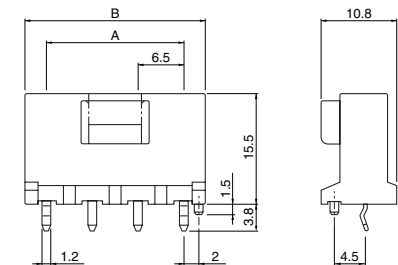
PA 66, UL94V-0, natural (white)

RoHS compliance

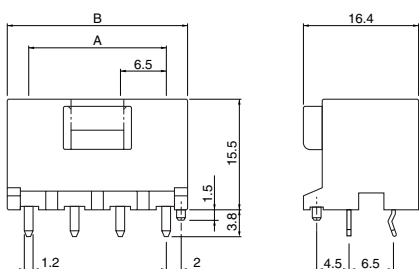
VYH CONNECTOR

Shrouded header

Single-row type



Double-row type



Type	Circuits	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
Single-row type	2	B02B-VYHSC-1	6.5	12.3	400
	3	B03B-VYHSC-1	13.0	18.8	300
	4	B04B-VYHSC-1	19.5	25.3	200
Double-row type	4	B04B-VYHSC-D-1	6.5	12.3	200
	6	B06B-VYHSC-D-1	13.0	18.8	150

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PBT, UL94V-0, natural (white)

RoHS compliance This product displays (LF)(SN) on a label.

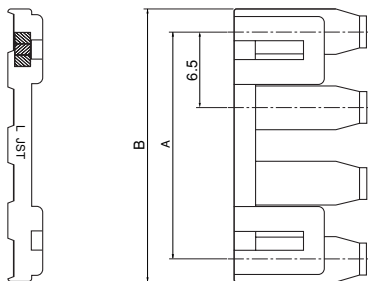
Type	Circuits	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
Single-row type	2	B02B-VYHSC-M-1	6.5	12.3	400
	3	B03B-VYHSC-M-1	13.0	18.8	300
	4	B04B-VYHSC-M-1	19.5	25.3	200
Double-row type	4	B04B-VYHSC-DM-1	6.5	12.3	200
	6	B06B-VYHSC-DM-1	13.0	18.8	150

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PA66, UL94V-0, natural (ivory)

RoHS compliance This product displays (LF)(SN) on a label.

Retainer

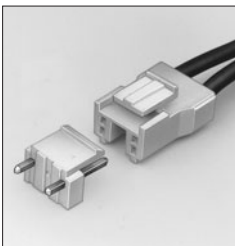


Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	VYHS-02V-S	6.5	10.3	4,000
3	VYHS-03V-S	13.0	16.8	3,000
4	VYHS-04V-S	19.5	23.3	2,000

Material

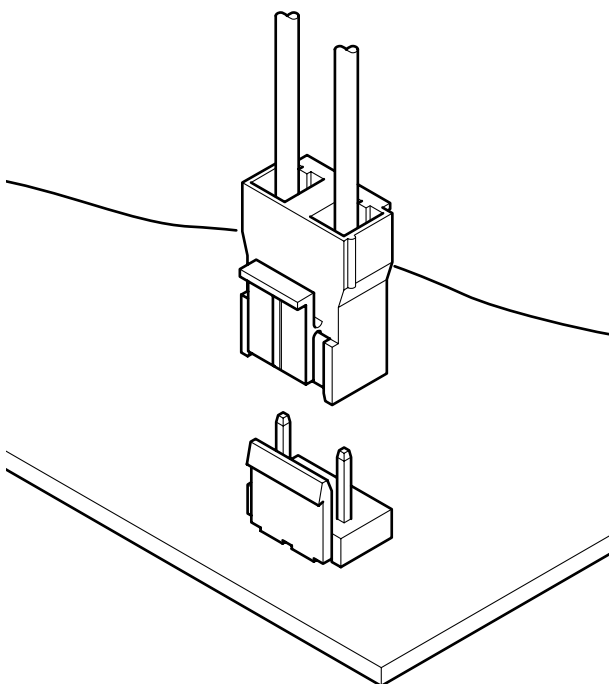
Glass-filled PBT, UL94V-0, natural (white)

RoHS compliance
Note: Not TÜV approved.



NVA CONNECTOR

7.92mm pitch/Disconnectable Crimp style connectors



7.92mm pitch crimp style, large current carrying capacity connector, that is best suited for various kinds of power supply circuits. Box-shaped contacts offer reliable connection.

- **Housing lances**
- **Box contact**
- **Secure contact and mounting**
- **Applicable up to 10A**

Specifications

- Current rating: 10A AC, DC (AWG #16)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #20 to #16
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * Temperature Range:
The aforementioned temperature range of this connector is described in JST Standard Product Specification.
Maximum temperature registered in UL is 105°C.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

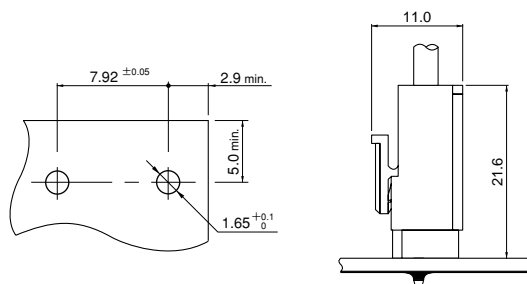
Standards

Ⓜ Recognized E60389

Ⓢ Certified LR20812

△ R9251675

PC board layout (viewed from component side) and Assembly layout

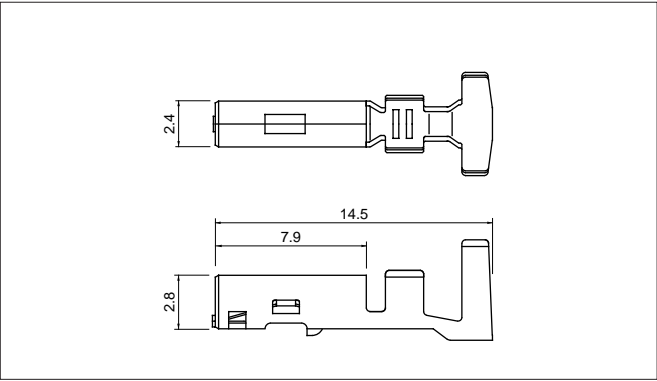


Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

NVA CONNECTOR

Contact



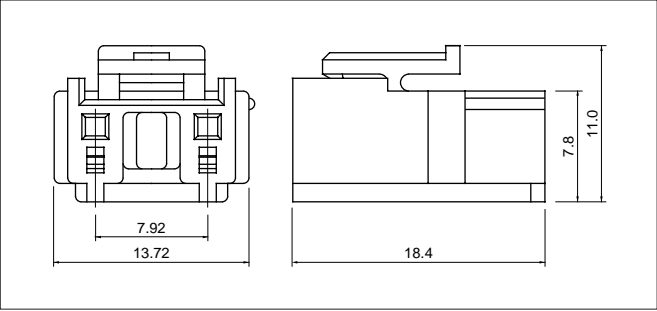
Model No.	AWG #	Insulation O.D.(mm)	Q'ty / reel
SVT-41T-P1.1	20 ~16	3.9~2.7	2,500
Material and Finish			

Alloy (phosphor bronze system), tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SVT-41T-P1.1	AP-K2N	MKS-L	MK/SVT-41-11	APLMK SVT41-11
		—	—	—

Housing

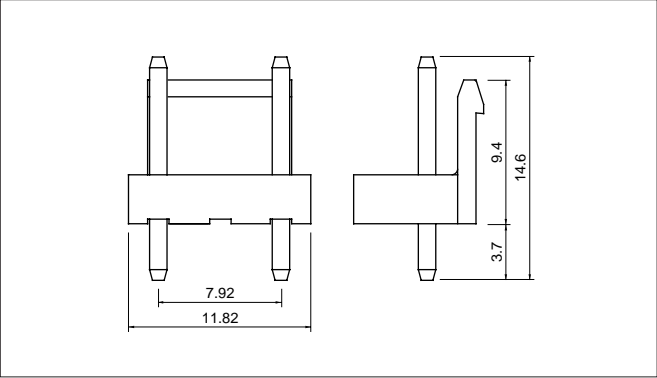


Circuit	Model No.	Q'ty / bag
2	NVAR-02VS	1,000
Material		

PA 66, UL94V-0, natural (white)

RoHS compliance

Locking header

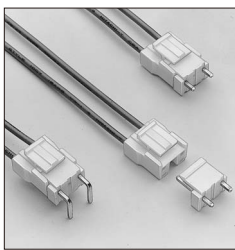


Circuit	Model No.	Q'ty / box
2	B2P3-VH	1,000
Material and Finish		

Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, natural (white)

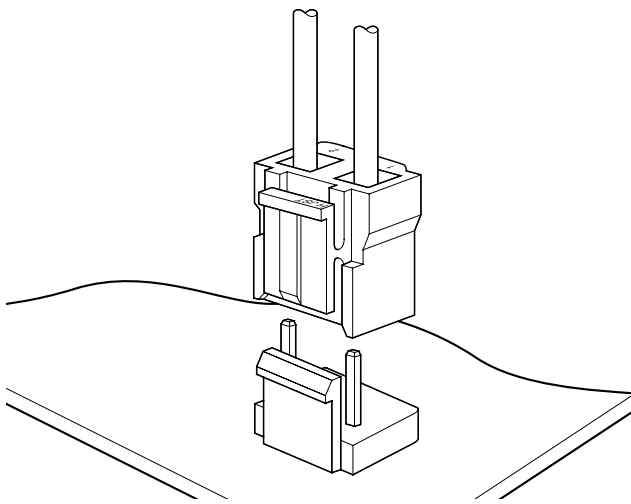
RoHS compliance

This product displays (LF)(SN) on a label.



VA CONNECTOR

7.92mm pitch/Disconnectable Crimp style connectors



This 7.92mm pitch large current carrying capacity connector is used with primary power supply circuits and various other circuits requiring large currents. It features an anti-misinsertion construction and a reliable locking mechanism to ensure maximum safety.

- **Box contact**
- **Secure contact and mounting**
- **Compact connector with a large capacity**

Specifications

- Current rating: 7A AC, DC (AWG #18)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,200V AC/minute
- Applicable wire: AWG #20 to #18
- Applicable PC board thickness: 1.6mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

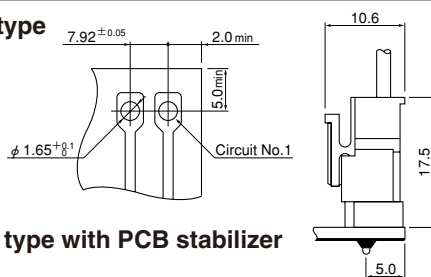
Recognized E60389

Certified LR20812

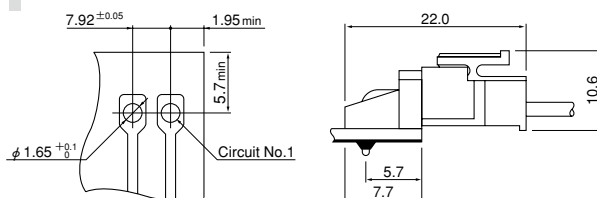
R75122

PC board layout (viewed from soldering side) and Assembly layout

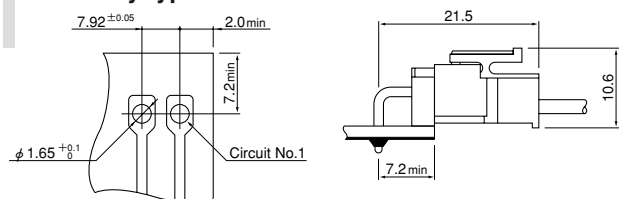
Top entry type



Side entry type with PCB stabilizer

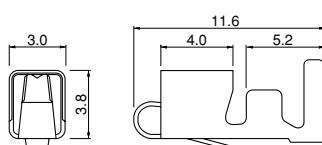


Side entry type



Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline.
Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SVA-41T-P1.1	0.5~0.83	20~18	1.9~3.7	3,500

Material and Finish

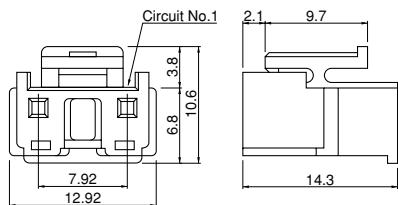
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SVA-41T-P1.1	AP-K2N	MKS-L	MK/SVA-41-11	APLMK SVA41-11

VA CONNECTOR

Housing



Circuits	Model No.	Q'ty / bag
2	VAR-2	1,000
Material		
PA 6, UL94V-0, natural (white)		

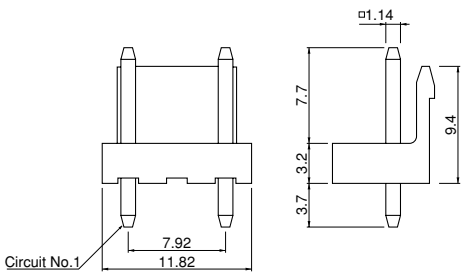
RoHS compliance

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

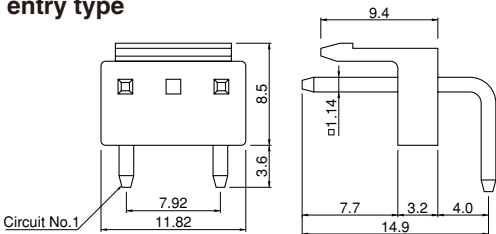
ex. **VAR-2-oo**
(blank)...natural (white)
K...black R...red E...blue Y...yellow M...green N...brown

Locking header

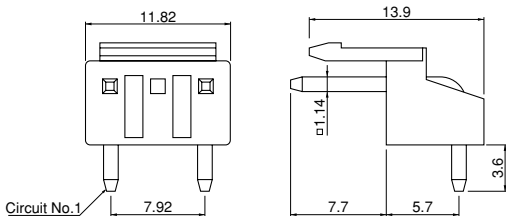
Top entry type



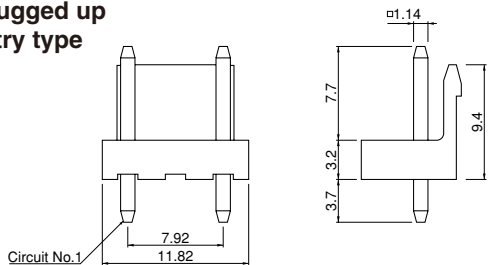
Side entry type



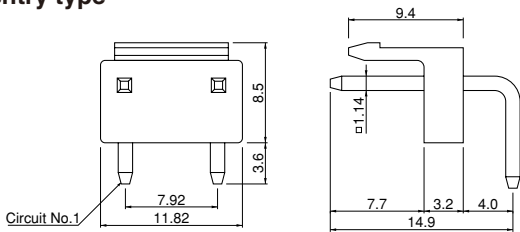
Side entry type with PCB stabilizer



With plugged up Top entry type



Side entry type



	Circuits	Model No.	Q'ty / box
Top entry type	2	B2P3-VH	1,000
Side entry type	2	B2P3S-VH	500
Side entry type with PCB stabilizer	2	S2P3-VH	500

With plugged up

	Circuits	Model No.	Q'ty / box
Top entry type	2	*B2P-VA	1,000
Side entry type	2	*B2PS-VA	500

Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, natural (white)

RoHS compliance This product displays (LF)(SN) on a label.
Note: *Marked products are not CSA/TUV approved.

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

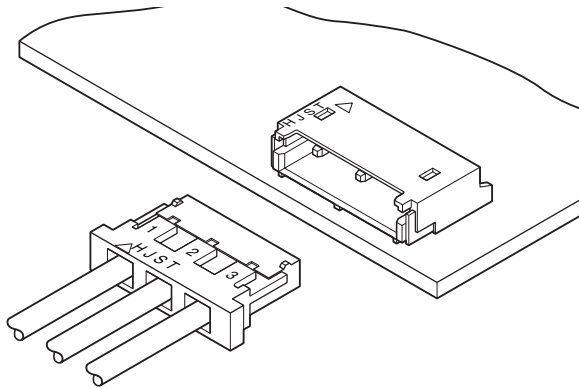
ex. **B2P3(S)-VH-oo**
(blank)...natural (white)
BK...black R...red BL...blue Y...yellow M...green N...brown
O...orange PK...pink P...purple H...gray

ex. **S2P3-VH-oo**
(blank)...natural (white)
BK...black R...red Y...yellow M...green



BH CONNECTOR

4.0/8.0/12.0mm pitch/Disconnectable Crimp style connectors



Low profile connectors with high withstanding voltage, designed for connecting liquid crystal display back light lamps to their starters.

- Low profile
- SMT configuration
- Applicable to special wires
- Headers with locating bosses
- Housing lock also serves as polarizing device

Specifications

- Current rating: 1.0A AC, DC (AWG #22)
- Voltage rating: 600V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,800V AC/minute
- Applicable wire: AWG #28 to #22
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

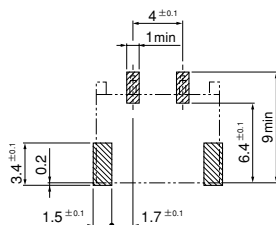
Recognized E60389

Certified LR20812

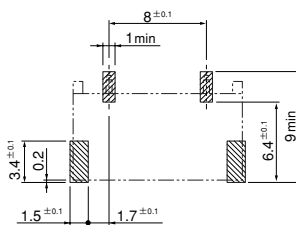
PC board layout (viewed from component side)

SMT type

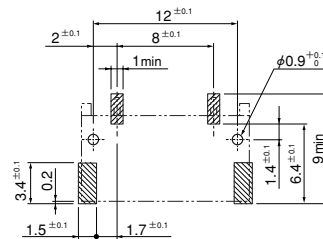
(2 circuits 4mm pitch)



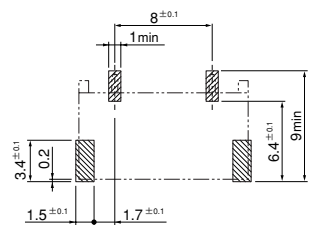
(2 circuits 8mm pitch)



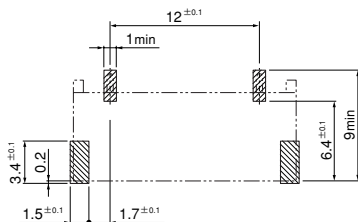
(2 circuits 8mm pitch with bosses)



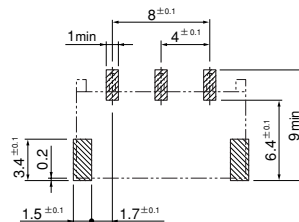
(2 circuits 8mm pitch plugged up)



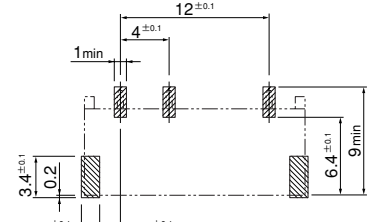
(2 circuits 12mm pitch)



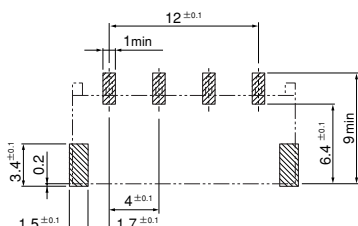
(3 circuits 4mm pitch)



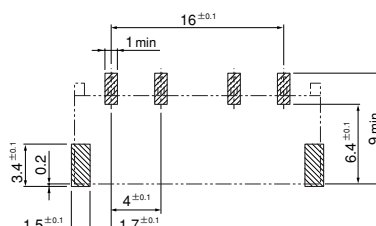
(3 circuits 4mm pitch plugged up)



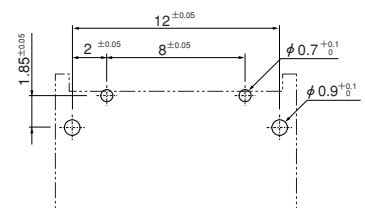
(4 circuits 4mm pitch)



(4 circuits 4mm pitch with post removed)



Through-hole type

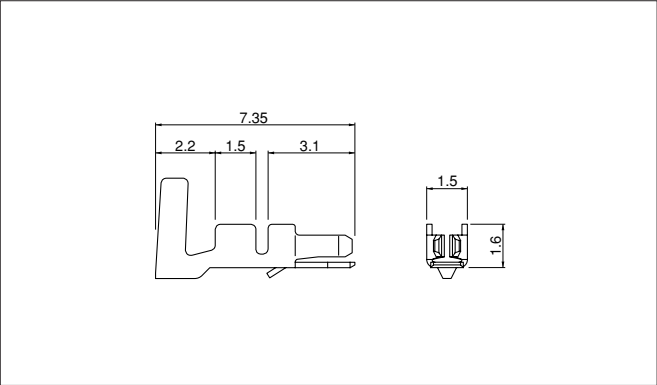


Note: 1. Tolerances are for pattern non-cumulative: ± 0.05 mm for all centers. Tolerance for hole size is ± 0.1 .

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as guideline. Contact JST for details.

BH CONNECTOR

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm²	AWG #		
SBH-001T-P0.5	0.08~0.33	28~22	1.6 ~2.4	4,000

Material and Finish

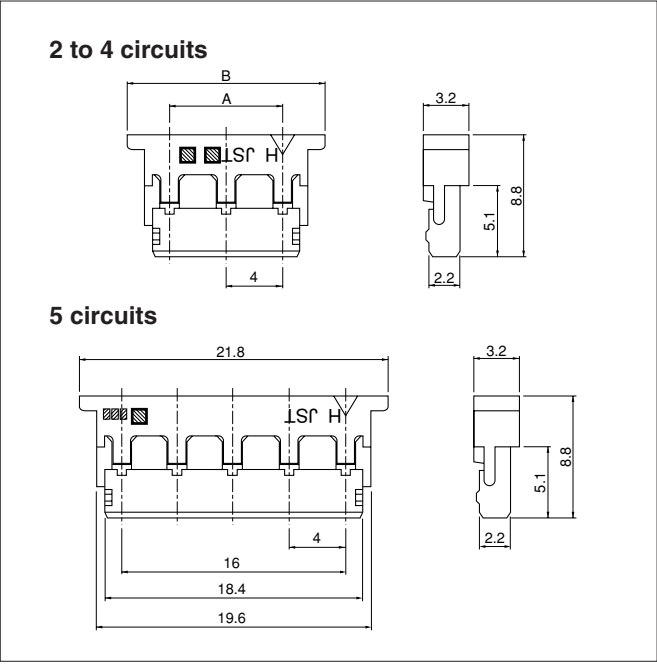
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance
Note: Wire conductors should be tin-plated annealed copper strands.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SBH-001T-P0.5	AP-K2N	MKS-L	MK/SBH/M-001-05	APLMK SBH/M001-05
		*MKS-SC1-1	SC/SBH/M-001-05	APLSC SBH/M001-05

Note: *Strip-crimp applicator

Housing



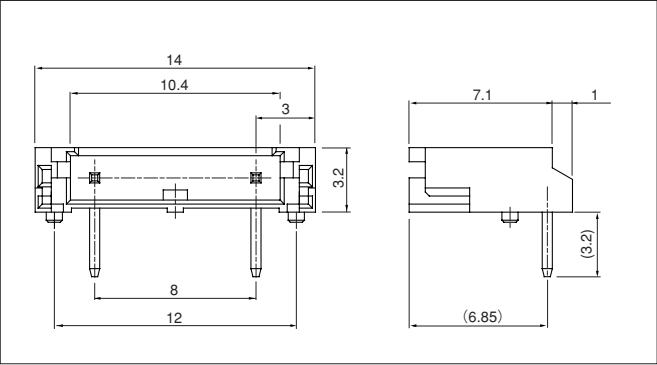
Circuits	Pitch (mm)	Model No.	Dimensions (mm)		Q'ty / bag
			A	B	
2	4	BHR-02VS-1	4.0	9.8	1,000
	8	BHR-03VS-1	8.0	13.8	1,000
	Note1) 8	BHR-02(8.0)VS-1N	8.0	13.8	1,000
	12	BHR-04VS-1	12.0	17.8	1,000
3	4	BHR-03VS-1	8.0	13.8	1,000
	Note2) 4	BHR-03(4-3)VS-1N	12.0	17.8	1,000
4	4	BHR-04VS-1	12.0	17.8	1,000
5	4	BHR-05VS-1	16.0	21.8	1,000

Material

PA 66, UL94V-0, natural (white)

RoHS compliance
Note: 1. BHR-02(8.0)VS-1N: 2 circuits 8.0mm pitch plugged up.
2. BHR-03(4-3)VS-1N: 4 circuits 4.0mm pitch header with circuit No.3 plugged up.

Through-hole type shrouded header



Circuits	Pitch (mm)	Model No.	Q'ty / tray
2	8	S02(8.0)B-BHS	1,000

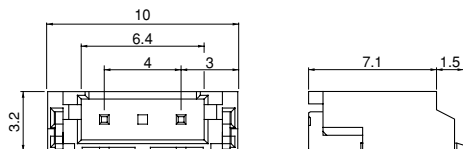
Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA, UL94V-0, natural (ivory)

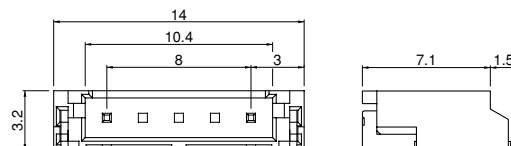
RoHS compliance This product displays (LF)(SN) on a label.
Note: The applicable housing is "BHR-02(8.0)VS-1N" only.

SMT type shrouded header

(2 circuits 4mm pitch)

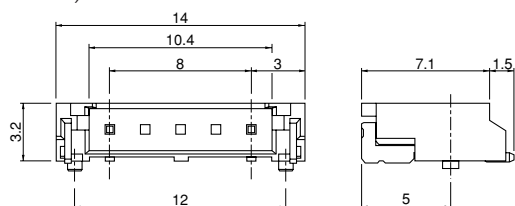


(2 circuits 8mm pitch)



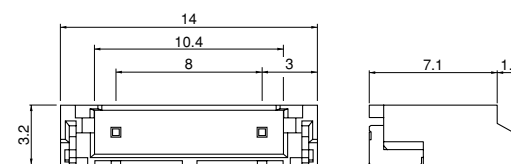
(2 circuits 8mm pitch with bosses)

Note 1)



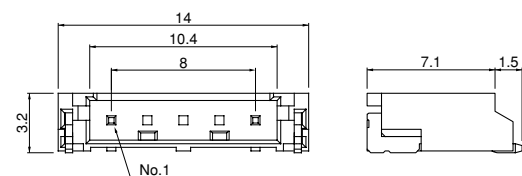
(2 circuits 8mm pitch plugged up)

Note 2)

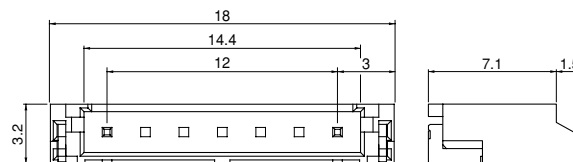


(2 circuits 8mm pitch with ribs against prying)

Note 4)

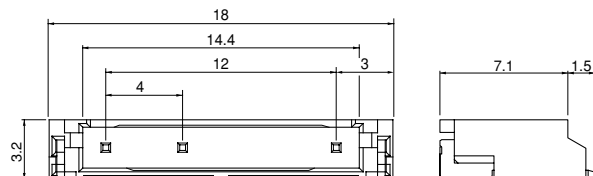


(2 circuits 12mm pitch)

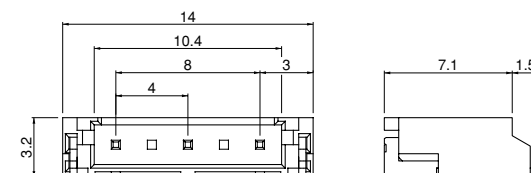


(3 circuits 4mm pitch plugged up)

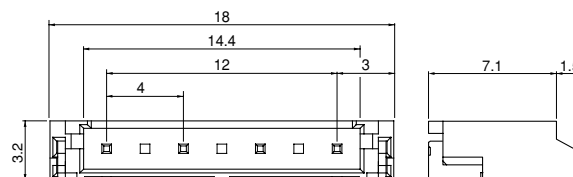
Note 3)



(3 circuits 4mm pitch)

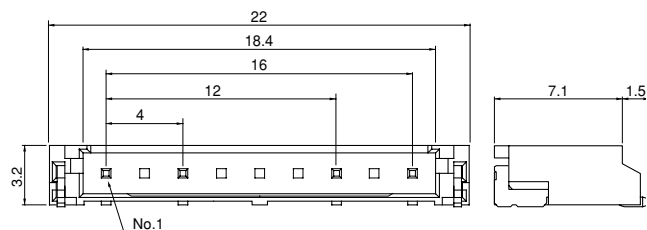


(4 circuits 4mm pitch)



(4 circuits 4mm pitch with post removed)

Note 5)



Circuits	Pitch(mm)	Model No.	Q'ty / reel
2	4	SM02(4.0)B-BHS-1-TB	1,000
	8	SM02(8.0)B-BHS-1-TB	1,000
	Note1) 8	SM02(8.0)B-BHS-TB	1,000
	Note2) 8	SM02(8.0)B-BHS-1N-TB	1,000
	Note4) 8	SM02(8.0)B-BHS-1R-TB	1,000
3	12	SM02(12)B-BHS-1-TB	1,000
	4	SM03(4.0)B-BHS-1-TB	1,000
4	Note3) 4	SM03(7-D1)B-BHS-1N-TB	1,000
	4	SM04(4.0)B-BHS-1-TB	1,000
5	Note5) 4	SM04(9-E2)B-BHS-1-TB	1,000

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
 Wafer: PA, UL94V-0, natural (ivory)
 Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Note: 1. Header with bosses. Contact JST for other circuits headers with bosses.

2. 2 circuits 8.0mm pitch plugged up.

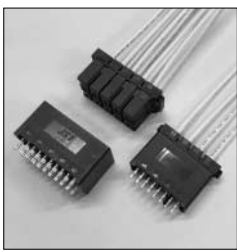
3. 4 circuits 4.0mm pitch header with circuit No.3 plugged up.

4. Header with ribs against prying. Contact JST for other circuits headers with ribs against prying.

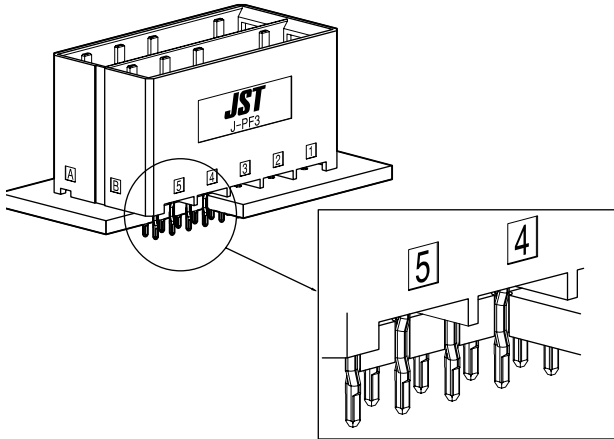
5. 5 circuits 4.0mm pitch header with circuit No.3 post removed.

6. The products listed above are supplied on embossed tape.

7. Products with bosses supplied in loose piece are also available. Contact JST for details.



JFA CONNECTOR J-PF3 PRESS FIT TYPE



- **Press fit contact is adopted.**
- **Easy PC board layout**
- **Use the receptacle contact of J300 series**

Specifications

- Current rating: (AC, DC)

Unit: A

Circuits	Wire size (AWG)					
	#14	#16	#18	#20	#22	#24
4	13.0	11.5	9.5	8.0	6.5	5.5
5	13.0	11.5	9.5	8.0	6.5	5.5
6	12.5	11.0	9.0	7.5	6.0	5.0
10	11.5	10.0	8.5	7.0	5.5	4.5

- Voltage rating: 250 V
- Temperature range: -55°C to +105°C
(including temperature rise in applying electrical current)
- Applicable PC board thickness: 2.4 to 3.4 mm
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Compliant with RoHS.

Standards

Recognized E60389

Certified LR20812

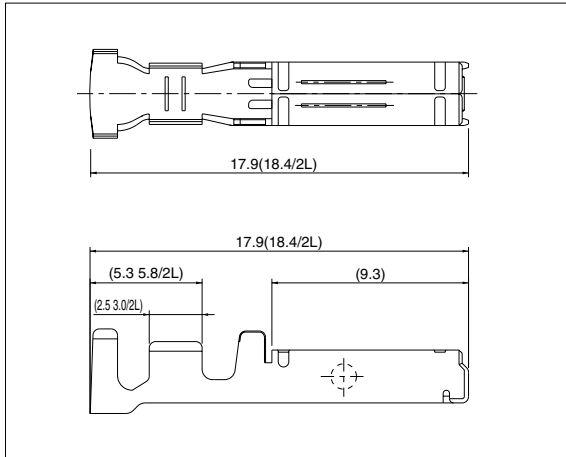
R50133261

Assembly layout

			When using J-PF3 receptacle	When using J-PF3 receptacle modular
Wire-to-board	Top entry type	Single-row		
		Double-row		

J300 SERIES/J-PF3 PRESS FIT TYPE

Receptacle contact



Model No.		Applicable wire			Insulation O.D.	Q'ty	
Strip contact	Loose piece	Size	mm ²	AWG#	(mm)	reel	Box (Loose piece)
SF3F-002(*)-P2.0	BF3F-002(*)-P2.0	S	0.08~0.20	28~24	0.8~1.4	3,700	1,000
SF3F-01(*)-P2.0	BF3F-01(*)-P2.0	M	0.20~0.50	24~20	1.2~2.6	3,700	1,000
SF3F-41(*)-P2.0	LF3F-41(*)-P2.0	L	0.50~1.25	20~16	1.8~2.8	3,200	1,000
SF3F-71()-P2.0	*BF3F-71(*)-P2.0	2L	1.25~2.0	16~14	2.4~3.4	3,200	1,000

Material and Finish

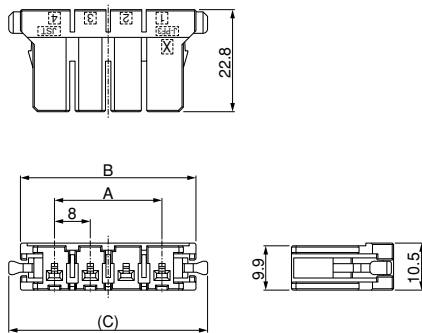
Copper alloy (superior conductivity), nickel-undercoated, selective gold-plated

RoHS compliance

Note: Finish (*):GF...Nickel-undercoated, 0.38 μ m selective gold-plated
 Gl....Nickel-undercoated, 0.76 μ m selective gold-plated

Receptacle housing

Single-row type



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
4	X	JPF3FSS-04V-KX	24.0	39.2	44.4	100
	Y	JPF3FSS-04V-KY	24.0	39.2	44.4	100
	V	*JPF3FSS-04V-KV	24.0	39.2	44.4	100
	W	*JPF3FSS-04V-KW	24.0	39.2	44.4	100
5	X	JPF3FSS-05V-KX	32.0	47.2	52.4	100
	Y	JPF3FSS-05V-KY	32.0	47.2	52.4	100
	V	*JPF3FSS-05V-KV	32.0	47.2	52.4	100
	W	*JPF3FSS-05V-KW	32.0	47.2	52.4	100

Material

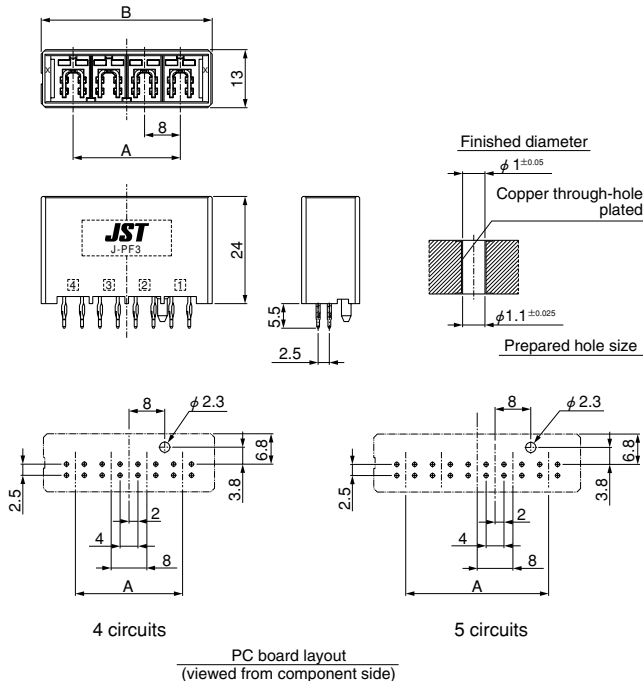
Thermoplastic resin, UL94V-0, black

RoHS compliance

Note: 1. Not CSA/TÜV approved.
 2. *Marked products are not approved by UL/CSA/TÜV standards.

Header Top entry type (Press fit type)

Single-row type



Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
4	X	B04B-JPF3SK-GKXR	24.0	38.3	168
	Y	B04B-JPF3SK-GKYR	24.0	38.3	168
	V	*B04B-JPF3SK-GKVR	24.0	38.3	168
	W	*B04B-JPF3SK-GKWR	24.0	38.3	168
5	X	B05B-JPF3SK-GKXR	32.0	47.2	144
	Y	B05B-JPF3SK-GKYR	32.0	47.2	144
	V	*B05B-JPF3SK-GKVR	32.0	47.2	144
	W	*B05B-JPF3SK-GKWR	32.0	47.2	144

Material and Finish

Post: Copper alloy, gold-plated
 Housing: Thermoplastic resin, UL94V-0, black

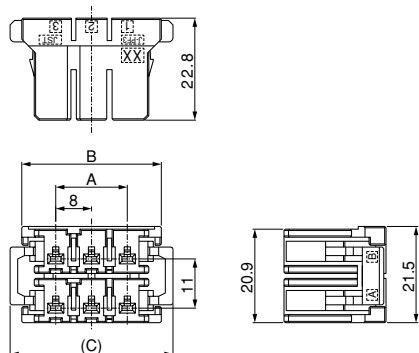
RoHS compliance

Note: 1. Contact JST for jig for press fit.
 2. Not CSA/TÜV approved.
 3. *Marked products are not approved by UL/CSA/TÜV standards.

J300 SERIES/J-PF3 PRESS FIT TYPE

Receptacle housing

Double-row type



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
6	XX	JPF3FMS-06V-KXX	16.0	31.2	36.4	100
	YY	JPF3FMS-06V-KYY	16.0	31.2	36.4	100
	XY	JPF3FMS-06V-KXY	16.0	31.2	36.4	100
	YX	*JPF3FMS-06V-KYX	16.0	31.2	36.4	100
10	XX	JPF3FMS-10V-KXX	32.0	47.2	52.4	100
	YY	JPF3FMS-10V-KYY	32.0	47.2	52.4	100
	XY	JPF3FMS-10V-KXY	32.0	47.2	52.4	100
	YX	*JPF3FMS-10V-KYX	32.0	47.2	52.4	100

Material

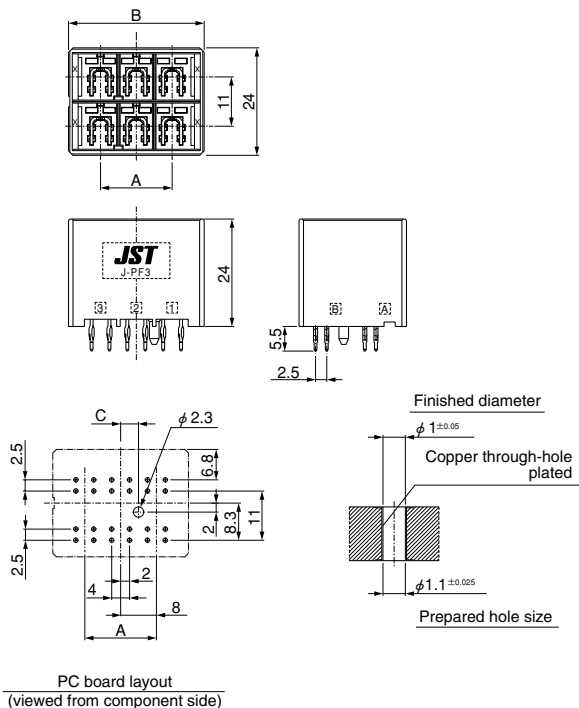
Thermoplastic resin, UL94V-0, black

RoHS compliance

Note: 1. Not CSA/TÜV approved.
2. *Marked products are not approved by UL/CSA/TÜV standards.

Header Top entry type (Press fit type)

Double-row type



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
6	XX	B06B-JPF3MK-GKXXR	16.0	30.3	4.0	144
	YY	B06B-JPF3MK-GKYYR	16.0	30.3	4.0	144
	XY	B06B-JPF3MK-GKXYR	16.0	30.3	4.0	144
	YX	*B06B-JPF3MK-GKYXR	16.0	30.3	4.0	144
10	XX	B10B-JPF3MK-GKXXR	32.0	46.3	12.0	96
	YY	B10B-JPF3MK-GKYYR	32.0	46.3	12.0	96
	XY	B10B-JPF3MK-GKXYR	32.0	46.3	12.0	96
	YX	*B10B-JPF3MK-GKYXR	32.0	46.3	12.0	96

Material and Finish

Post: Copper alloy, gold-plated
Housing: Thermoplastic resin, UL94V-0, black

RoHS compliance

Note: 1. Contact JST for jig for press fit.
2. Not CSA/TÜV approved.
3. *Marked products are not approved by UL/CSA/TÜV standards.

J300 SERIES/J-PF3 PRESS FIT TYPE

Model number identification

Receptacle contact

S F3 F - 41 GF - P 2.0

Form: S...Strip form, B...Loose piece L...Loose piece with curled barrels	
Series name	
Kind of terminal: F...Receptacle contact	
Applicable wire: 002...AWG #28 ~ #24, 01...AWG #24 ~ #20, 41...AWG #20 ~ #16, 71...AWG #16 ~ #14	
Surface finish: GF...Nickel-undercoated, 0.38 μ m selective gold-plated Gl...Nickel-undercoated, 0.76 μ m selective gold-plated	
Material: P...Copper alloy	
Terminal size	

Receptacle housing

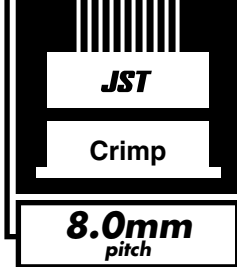
JPF3 F S S - 04 V - K X

Series name	
Type of connector: F...Receptacle housing	
Rows: S...Single-row M...Double-row	
Mounting arrangement: S...Side locking	
Circuits: 4 ~ 6, 10	
Flammability: V...UL94V-0	
Color indication: K...Black	
Keying: X...X-Keying, Y...Y-Keying, XX...XX-Keying, YY...YY-Keying, XY...XY-Keying, YX...YX-Keying, V...V-Keying, W...W-Keying	

Header

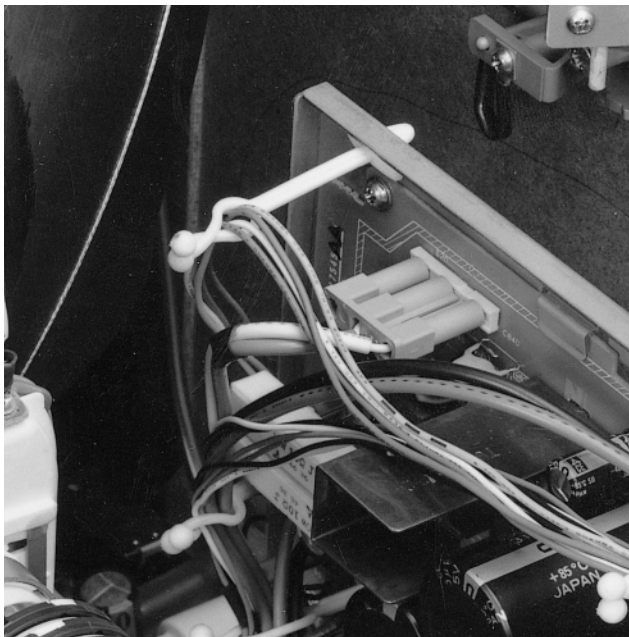
B 05 B - JPF3 S K - GK X R

PC board mounting direction: B...Top entry type	
Circuits: 4 ~ 6, 10	
Product name: Header	
Series name	
Rows: S...Single-row M...Double-row	
Color indication: K...Black	
Surface finish: GK...Nickel-undercoated, 0.76 μ m selective gold-plated	
Keying: X...X-Keying, Y...Y-Keying, XX...XX-Keying, YY...YY-Keying, XY...XY-Keying, YX...YX-Keying, V...V-Keying, W...W-Keying	
Packaging form: R...Tray	

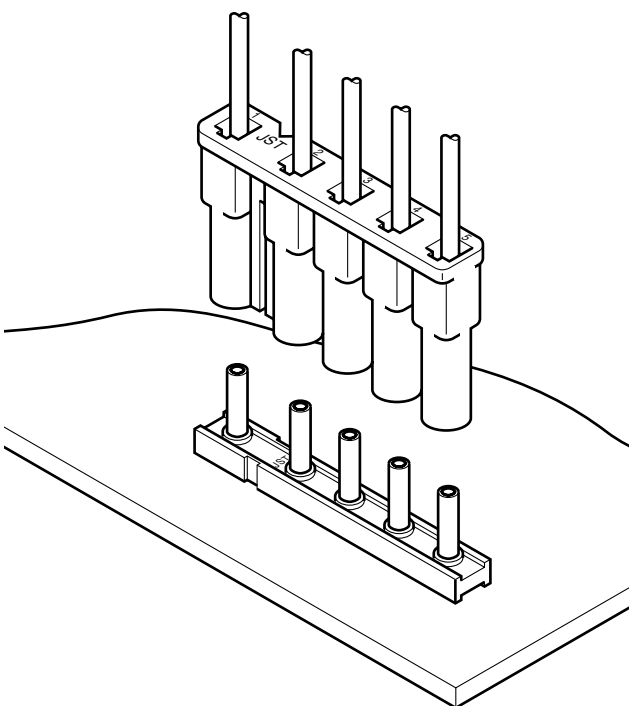


LV CONNECTOR

Disconnectable Crimp style connectors for 2.36 diameter pins



This connector can be connected to headers having 2.36mm diameter pins. Since the pitch between circuits is large, 8.0mm, this connector is ideally suited for the power supply circuits of TVs, stereo systems and VCRs.



Features

• Three-point contact

The mating section of the contact has a triangular configuration so that the terminal grips the round mating pin at three points. Furthermore, this contact keeps its high force after mating and unmating many times, thus assuring high reliability.

• Anti-misinsertion construction

The pitch between positions 1 and 2 of the housings and the headers having three or more circuits is 10.0mm, while the pitch of the other circuits is 8.0mm. This provides polarization which in turn prevents mismatching the connector.

• Flux entry prevention

The solder side of the header pins are closed so as to completely prevent flux or solder from entering. The tight press-fit of the pin into the header insulator also prevents flux from coming up the pin.

Specifications

- Current rating: SVF-01T-2.36N: 5A AC, DC (AWG #20)
SVF-01T-2.36LN: 7A AC, DC (AWG #18)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: SVF-01T-2.36N: AWG #24 to #20
SVF-01T-2.36LN: AWG #24 to #18
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

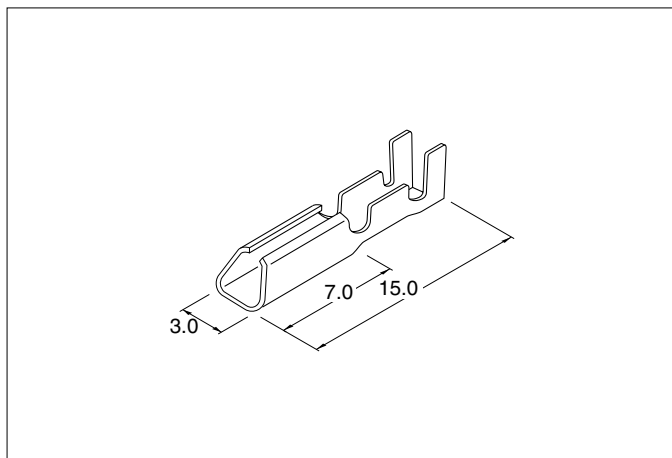
Recognized E60389

Certified LR20812

R75121

LV CONNECTOR

Contact



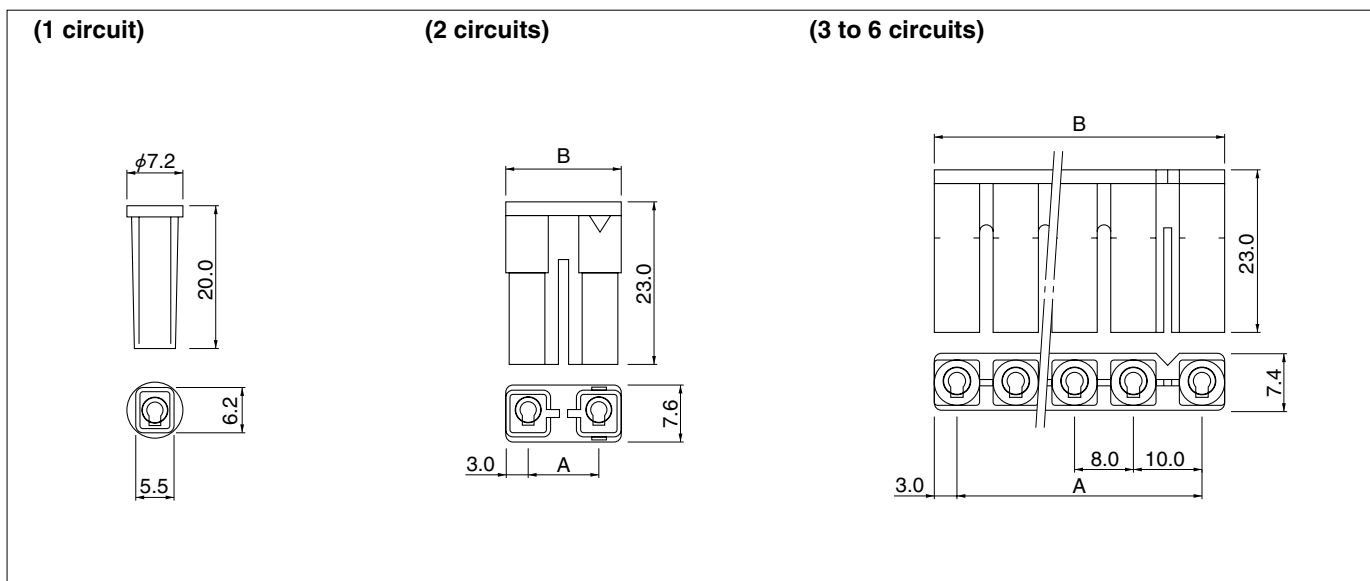
Model No.	Applicable wire			Q'ty / reel
	mm ²	AWG #	Insulation O.D. (mm)	
SVF-01T-2.36N	0.2 to 0.5	24 to 20	1.4 to 2.7	15,000
SVF-01T-2.36LN	0.2 to 0.83	24 to 18	1.4 to 2.9	5,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Housing



Cir- cuits	Model No.		Dimensions (mm)		Q'ty / bag
	Noryl	PBT	A	B	
1	S1P-LV	S1P-LV-P	—	—	1,000
2	2P-LV	2P-LV-P	10.0	16.0	1,000
3	3P-LV	3P-LV-P	18.0	24.0	500
4	4P-LV	4P-LV-P	26.0	32.0	500
5	5P-LV	5P-LV-P	34.0	40.0	500
6	6P-LV	6P-LV-P	42.0	48.0	500

Material

S1P-LV, ()P-LV: Modified PPE, UL94V-1, gray
S1P-LV-P, ()P-LV-P: PBT, UL94V-0, black

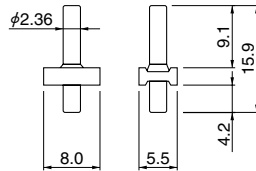
RoHS compliance

Precautions:

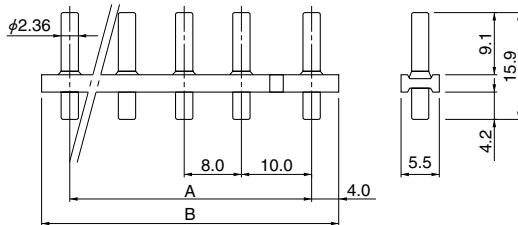
When using the housing made of Modified PPE, it has poor chemical resistance against oils and organic solvents. Do not allow the housing to come into contact with oil. Do not clean any printed circuit board while the housing is attached.

Header

(1 circuit)



(2 to 6 circuits)



Applicable contact	Circuits	Model No.	Dimensions (mm)		Finish	Qty / box
			A	B		
SVF-01T-2.36N	1	B1P-LV-TA	—	—	Nickel-undercoated, tin/copper alloy-plated	1,000
		B1P-LV-TN	—	—	Copper-undercoated, nickel-plated	
	2	B2P-LV-TA	10.0	18.0	Nickel-undercoated, tin/copper alloy-plated	500
		B2P-LV-TN			Copper-undercoated, nickel-plated	
	3	B3P-LV-TN	18.0	26.0	Copper-undercoated, nickel-plated	500
	4	B4P-LV-TN	26.0	34.0		250
	5	B5P-LV-TN	34.0	42.0		200
	6	B6P-LV-TN	42.0	50.0		
SVF-01T-2.36LN	1	B1P-LV-TA	—	—	Nickel-undercoated, tin/copper alloy-plated	1,000
	2	B2P-LV-TA	10.0	18.0		500
	3	B3P-LV-TA	18.0	26.0		
	4	B4P-LV-TA	26.0	34.0		250
	5	B5P-LV-TA	34.0	42.0		200
	6	B6P-LV-TA	42.0	50.0		

Material

Pin: Brass

Wafer: Glass filled PA 66, UL94V-0, natural (ivory)

RoHS compliance TA type products display (LF) on a label.

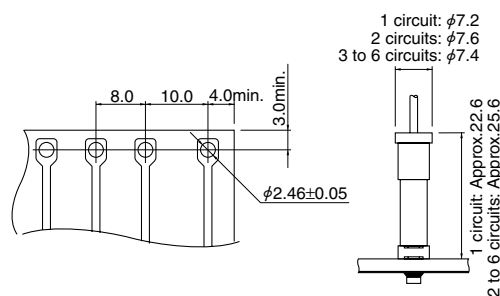
<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **B2P-LV-TA-oo**

(blank)...natural (ivory)

BK...black

PC board layout (viewed from soldering side) and Assembly layout



Note:

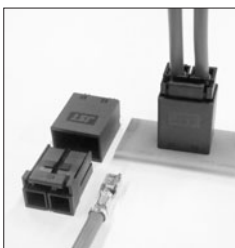
1. Tolerances are non-cumulative: ± 0.05 mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Crimping machine, Applicator

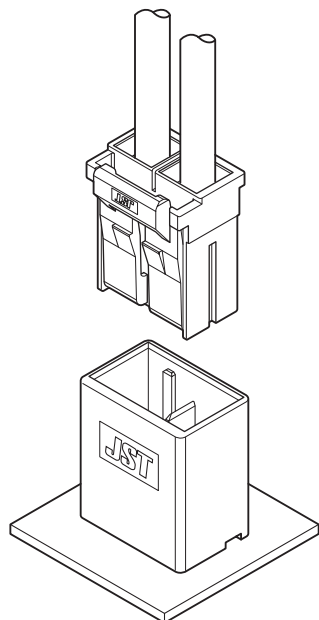
Contact	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies
SVF-01T-2.36N	AP-K2N	MK-L	MK/SVF-01-236N	APLMK SVF01-236N
		—	—	—

Contact	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies
SVF-01T-2.36LN	AP-K2N	MKS-L	MK/SVF-01-236LN	APLMK SVF01-236LN
		—	—	—



JFPS CONNECTOR

8.8mm pitch/Disconnectable Crimp style connectors



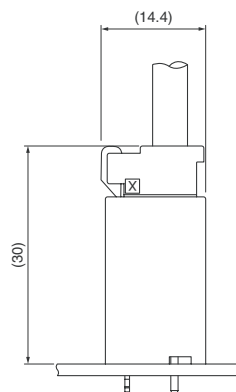
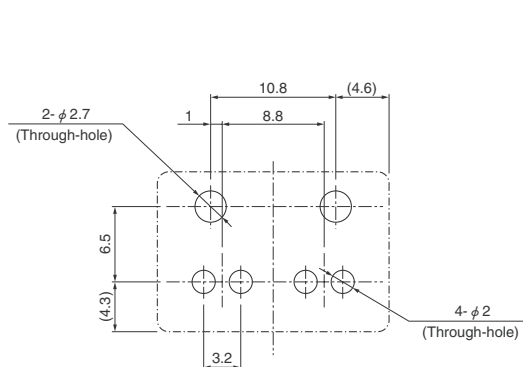
Small type connector for large current.
This connector corresponds the rated current of 35A at 2 circuits and is a top entry type board-to-wire connector.

- **Compact and space saving design**
- **Mis-mating prevention key**
- **Secure locking structure**

Specifications

- Current rating: 35 A AC, DC (2 circuits: AWG #10)
- Voltage rating: 600 V AC, DC
- Temperature range: -40°C to +105°C
 (including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 2 mΩ max.
 After environmental tests/ 2 mΩ max.
- Insulation resistance: 1,000 MΩ min.
- Withstanding voltage: 2,200 VAC/ minute
- Applicable wire: Conductor size/ AWG #12 to #10

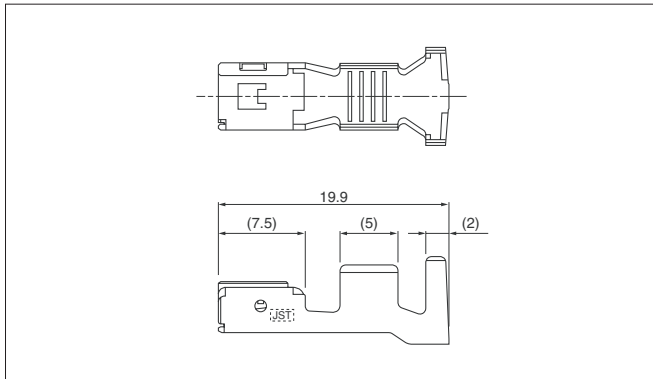
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Compliant with RoHS.



Note: 1. The above figure is the figure viewed from the connector mounting side.
 2. Hole dimensions differ according to the type of PC board and piercing method.
 The dimensions above should serve as a guideline. Contact JST for details.

JFPS CONNECTOR

Contact



Model No.	Applicable wire			Q'ty / reel
	mm ²	AWG#	Insulation O.D. (mm)	
SJFPS-81T-M1.0	3.5~5.5	12~10	4.0~5.3	1,500

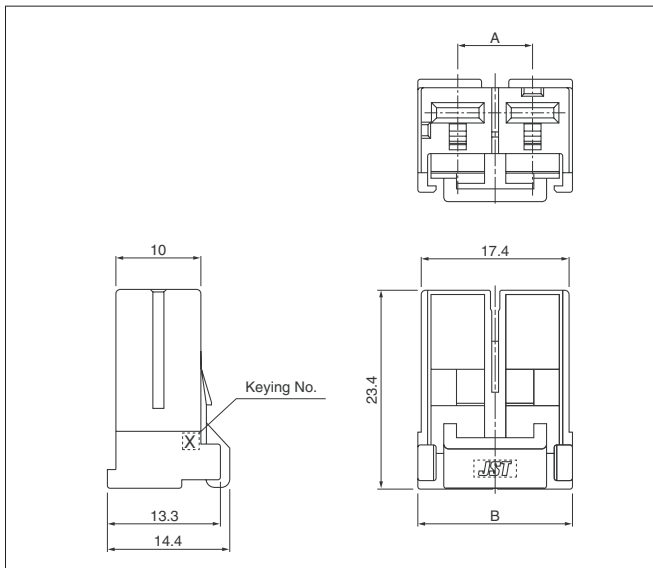
Material and Finish

Copper alloy, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SJFPS-81T-M1.0	AP-K2N	MKS-L-SIN3	MK/SJFPS-81-10	APLMK SJFPS81-10
		—	—	—

Housing



Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / bag
			A	B	
2	X	JFPSRS-02V-EX	8.8	17.4	200
	Y	JFPSRS-02V-KY	8.8	17.4	200

Material

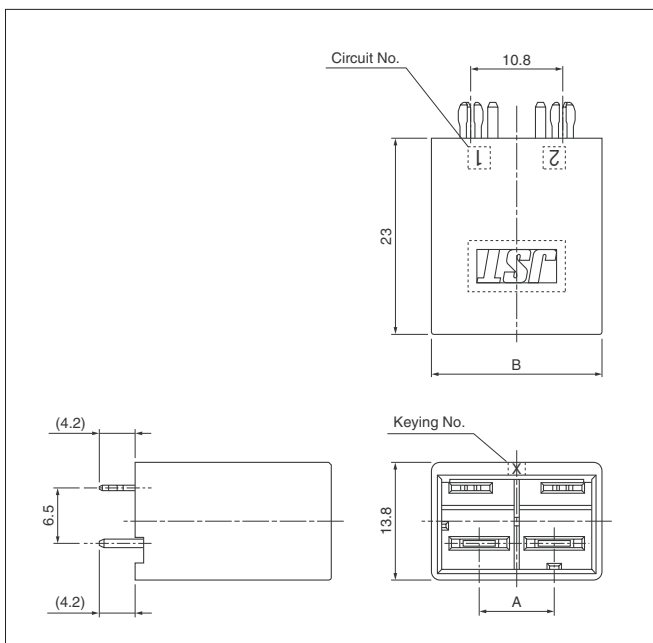
Glass-filled PBT, UL94V-0

RoHS compliance

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **JFPSRS-02V-EX**
E...blue K...black

Shrouded header



Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
2	X	BC02B-JFPSE-TX	8.8	20	132
	Y	BC02B-JFPSK-TY	8.8	20	132

Material

Contact: Copper, copper-undercoated, tin-plated
Housing: Glass-filled PA 66, UL94V-0
Reinforcement: Copper alloy, copper-undercoated, tin-plated

RoHS compliance

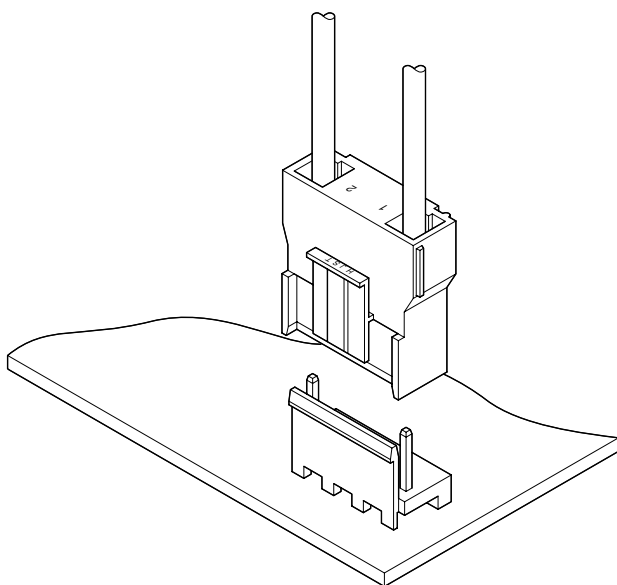
<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **BC02B-JFPSE-TX**
E...blue K...black



VT CONNECTOR

11.88mm pitch/Disconnectable Crimp style connectors



The VT connector is a 11.88mm pitch disconnectable crimp style connector with current rating of 12A. It has features such as the PC board locking device, misinsertion preventive construction and arm-lock mechanism. Its header is applicable to reinforced PC boards with eyelets.

- Connectable to vinyl insulated flat cables
- Use of PC board locking device
- Correct and secure mating
- Applicable to reinforced PC boards with eyelets

Specifications

- Current rating: 12A AC, DC (AWG #16)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #20 to #16
- Applicable PC board thickness: 1.6mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

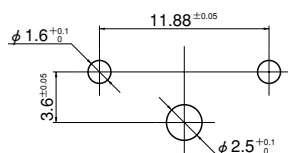
Standards

Recognized E60389

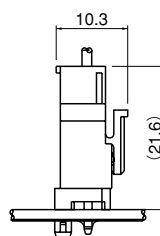
Certified LR20812

R50068570

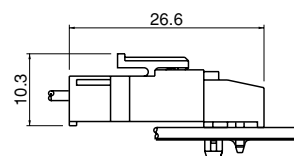
PC board layout (viewed from component side) and Assembly layout



Top entry type



Side entry type

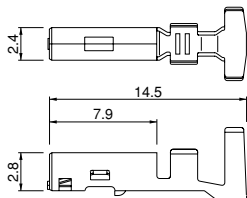


Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

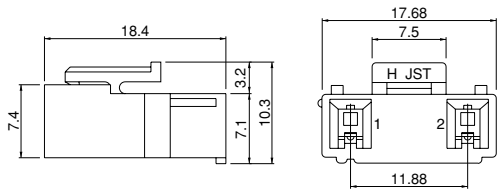
VT CONNECTOR

Contact



Model No.	Applicable wire		Q'ty / reel	
	AWG #	Insulation O.D. (mm)		
SVT-41T-P1.1	20~16	2.7~3.9	2,500	
Material and Finish				
Alloy (phosphor bronze system), tin-plated (reflow treatment)				
RoHS compliance				
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SVT-41T-P1.1	AP-K2N	MKS-L	MK/SVT-41-11	APLMK SVT41-11
		—	—	—

Housing

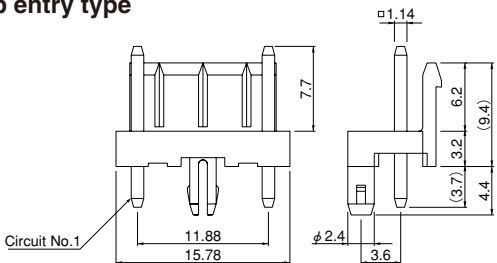


Circuits	Model No.	Q'ty / bag
2	VTR-02	500
Material		
PA 66, UL94V-0, natural (white)		

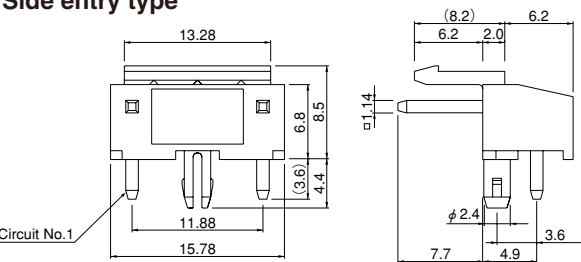
RoHS compliance
<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.
ex. **VTR-02-oo**
(blank)...natural (white)
Z...ivory

Locking header

Top entry type

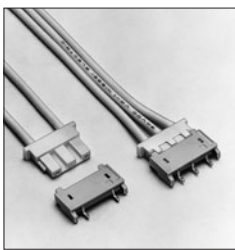


Side entry type



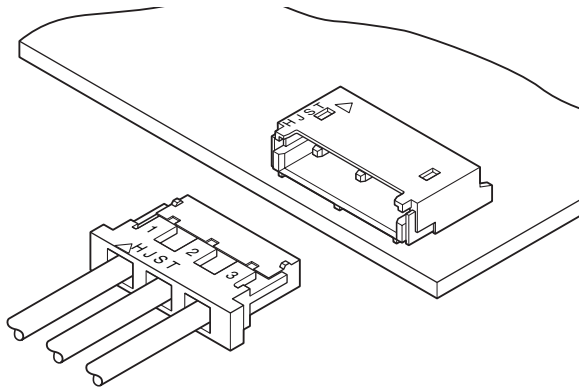
Circuits	Model No.		Q'ty / box	
	Top entry type	Side entry type	Top entry type	Side entry type
2	B02B-VT	S02B-VT	500	250
Material and Finish				
Post: Copper, tin-plated (reflow treatment) Wafer: Glass-filled PA 66, UL94V-0, natural (ivory)				

RoHS compliance This product displays (LF)(SN) on a label.



BH CONNECTOR

4.0/8.0/12.0mm pitch/Disconnectable Crimp style connectors



Low profile connectors with high withstanding voltage, designed for connecting liquid crystal display back light lamps to their starters.

- Low profile
- SMT configuration
- Applicable to special wires
- Headers with locating bosses
- Housing lock also serves as polarizing device

Specifications

- Current rating: 1.0A AC, DC (AWG #22)
- Voltage rating: 600V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,800V AC/minute
- Applicable wire: AWG #28 to #22
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

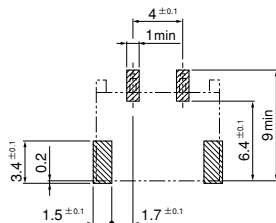
Recognized E60389

Certified LR20812

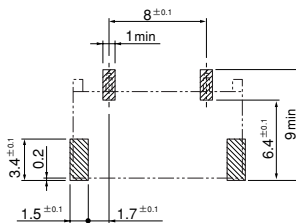
PC board layout (viewed from component side)

SMT type

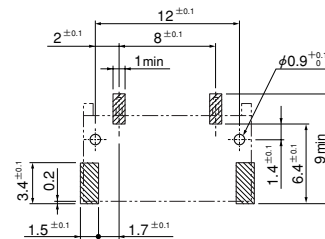
(2 circuits 4mm pitch)



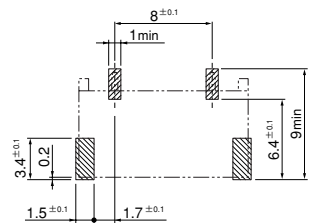
(2 circuits 8mm pitch)



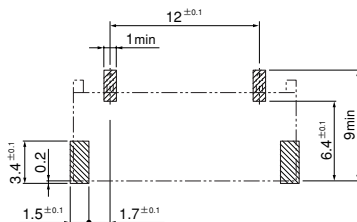
(2 circuits 8mm pitch with bosses)



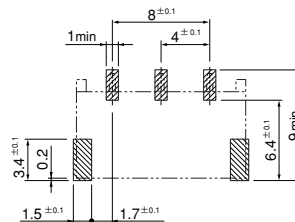
(2 circuits 8mm pitch plugged up)



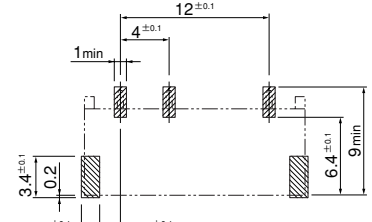
(2 circuits 12mm pitch)



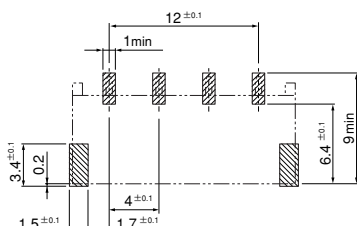
(3 circuits 4mm pitch)



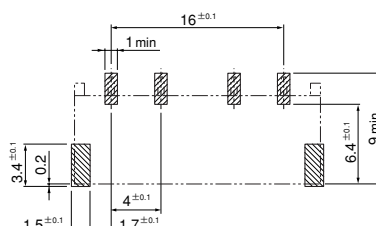
(3 circuits 4mm pitch plugged up)



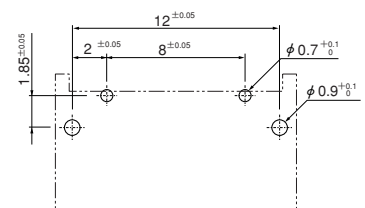
(4 circuits 4mm pitch)



(4 circuits 4mm pitch with post removed)



Through-hole type

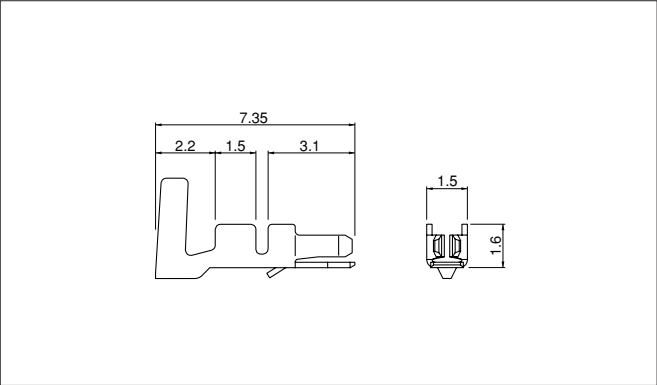


Note: 1. Tolerances are for pattern non-cumulative: ± 0.05 mm for all centers. Tolerance for hole size is ± 0.1 .

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as guideline. Contact JST for details.

BH CONNECTOR

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm²	AWG #		
SBH-001T-P0.5	0.08~0.33	28~22	1.6 ~2.4	4,000

Material and Finish

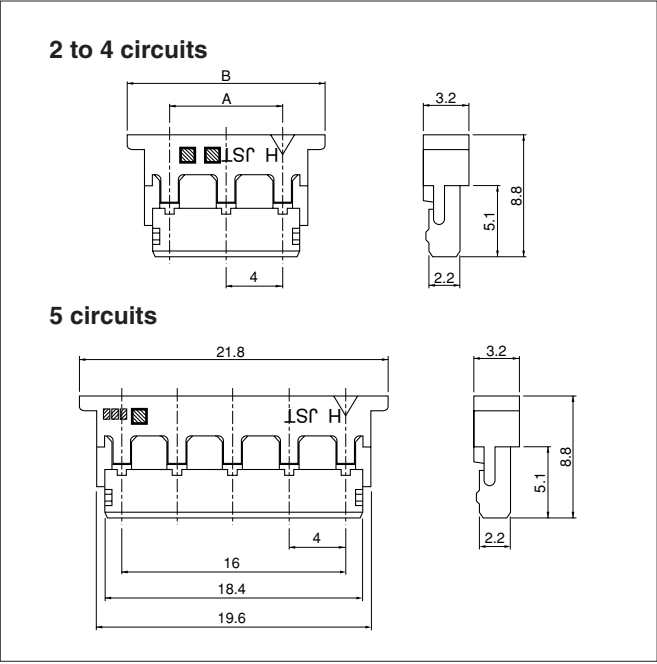
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance
Note: Wire conductors should be tin-plated annealed copper strands.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SBH-001T-P0.5	AP-K2N	MKS-L	MK/SBH/M-001-05	APLMK SBH/M001-05
		*MKS-SC1-1	SC/SBH/M-001-05	APLSC SBH/M001-05

Note: *Strip-crimp applicator

Housing



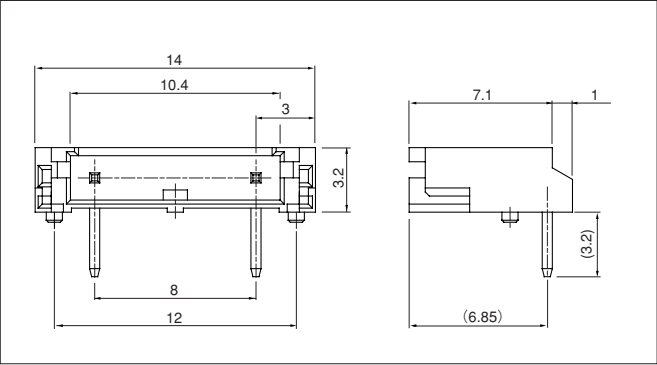
Circuits	Pitch (mm)	Model No.	Dimensions (mm)		Q'ty / bag
			A	B	
2	4	BHR-02VS-1	4.0	9.8	1,000
	8	BHR-03VS-1	8.0	13.8	1,000
	Note1) 8	BHR-02(8.0)VS-1N	8.0	13.8	1,000
	12	BHR-04VS-1	12.0	17.8	1,000
3	4	BHR-03VS-1	8.0	13.8	1,000
	Note2) 4	BHR-03(4-3)VS-1N	12.0	17.8	1,000
4	4	BHR-04VS-1	12.0	17.8	1,000
5	4	BHR-05VS-1	16.0	21.8	1,000

Material

PA 66, UL94V-0, natural (white)

RoHS compliance
Note: 1. BHR-02(8.0)VS-1N: 2 circuits 8.0mm pitch plugged up.
2. BHR-03(4-3)VS-1N: 4 circuits 4.0mm pitch header with circuit No.3 plugged up.

Through-hole type shrouded header



Circuits	Pitch (mm)	Model No.	Q'ty / tray
2	8	S02(8.0)B-BHS	1,000

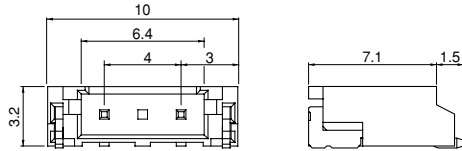
Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA, UL94V-0, natural (ivory)

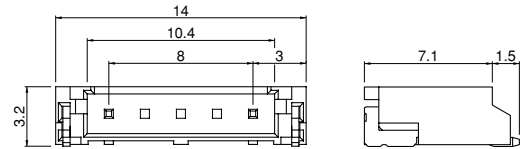
RoHS compliance This product displays (LF)(SN) on a label.
Note: The applicable housing is "BHR-02(8.0)VS-1N" only.

SMT type shrouded header

(2 circuits 4mm pitch)

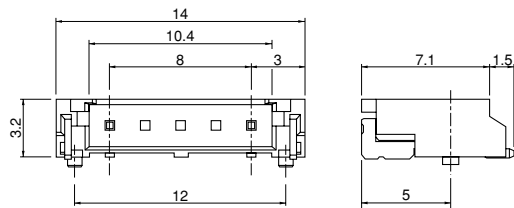


(2 circuits 8mm pitch)



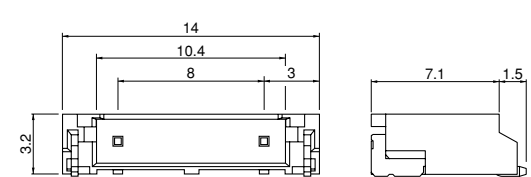
(2 circuits 8mm pitch with bosses)

Note 1)



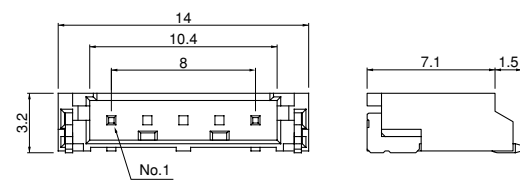
(2 circuits 8mm pitch plugged up)

Note 2)

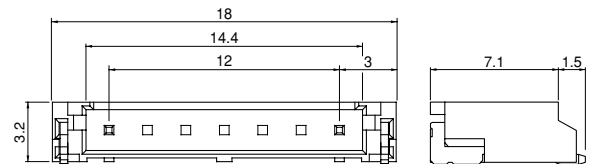


(2 circuits 8mm pitch with ribs against prying)

Note 4)

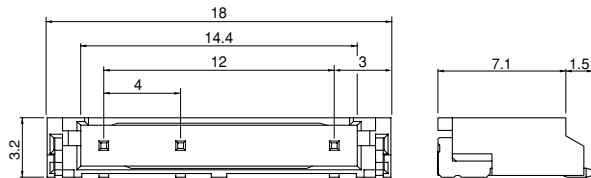


(2 circuits 12mm pitch)

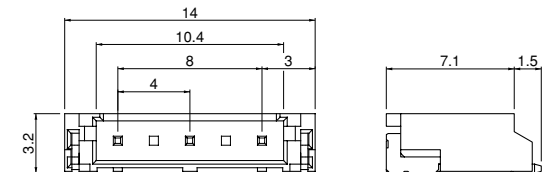


(3 circuits 4mm pitch plugged up)

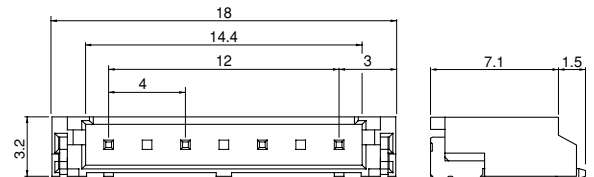
Note 3)



(3 circuits 4mm pitch)

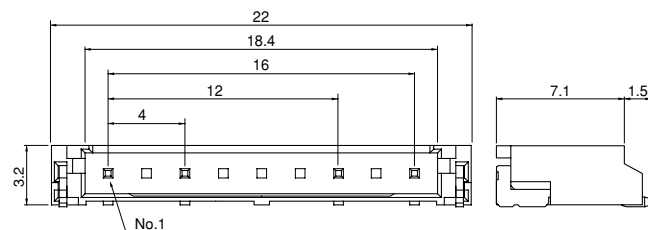


(4 circuits 4mm pitch)



(4 circuits 4mm pitch with post removed)

Note 5)



Circuits	Pitch(mm)	Model No.	Q'ty / reel
2	4	SM02(4.0)B-BHS-1-TB	1,000
	8	SM02(8.0)B-BHS-1-TB	1,000
	Note1) 8	SM02(8.0)B-BHS-TB	1,000
	Note2) 8	SM02(8.0)B-BHS-1N-TB	1,000
	Note4) 8	SM02(8.0)B-BHS-1R-TB	1,000
	12	SM02(12)B-BHS-1-TB	1,000
3	4	SM03(4.0)B-BHS-1-TB	1,000
	Note3) 4	SM03(7-D1)B-BHS-1N-TB	1,000
4	4	SM04(4.0)B-BHS-1-TB	1,000
5	Note5) 4	SM04(9-E2)B-BHS-1-TB	1,000

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
 Wafer: PA, UL94V-0, natural (ivory)
 Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Note: 1. Header with bosses. Contact JST for other circuits headers with bosses.

2. 2 circuits 8.0mm pitch plugged up.

3. 4 circuits 4.0mm pitch header with circuit No.3 plugged up.

4. Header with ribs against prying. Contact JST for other circuits headers with ribs against prying.

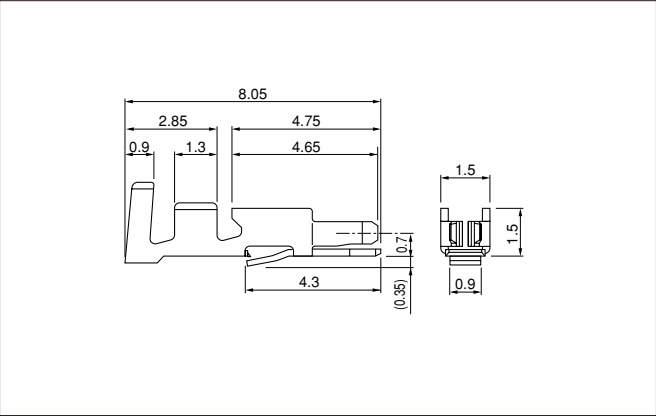
5. 5 circuits 4.0mm pitch header with circuit No.3 post removed.

6. The products listed above are supplied on embossed tape.

7. Products with bosses supplied in loose piece are also available. Contact JST for details.

BD CONNECTOR (13mm)

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm²	AWG#		
SBHS-002T-P0.5A	0.08~0.22	28~24	0.9~1.7	10,000

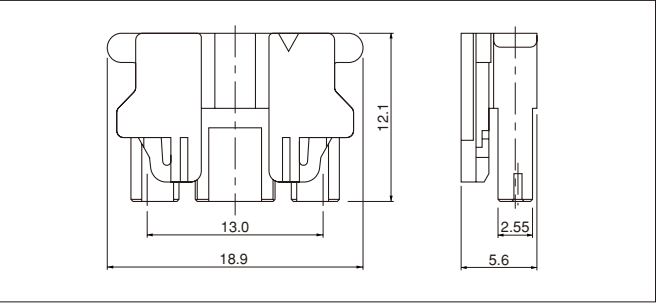
Material and Finish	
Phosphor bronze, tin-plated (reflow treatment)	

RoHS compliance
Note: Contact JST for SBHS-002T-P0.5.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SBHS-002T-P0.5A	AP-K2N	MKS-L	MK/SBHS-002-05-BDA	APLMK SBHS002-05-BDA
		—	—	—

Note: When using this housing, standard applicator and dies for SBHS contact can not be applied.

Housing

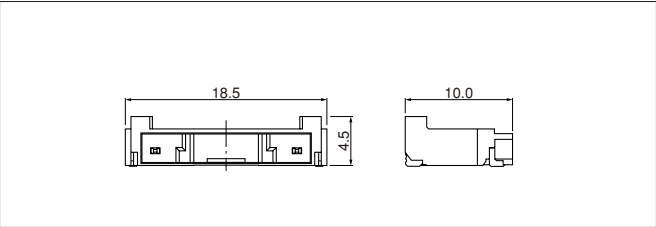


Circuits	Model No.	Q'ty / bag
2	BDAMR-02VAS-3	1,000

Material	
PBT・UL94V-0, natural (white)	

RoHS compliance

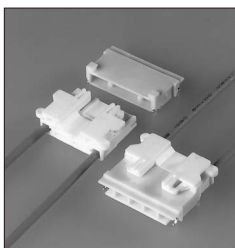
Shrouded header



Circuits	Model No.	Q'ty / reel
2	SM02-BDAS-3-TB	1,500

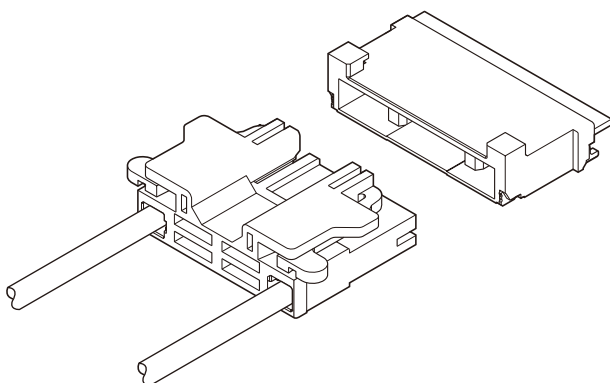
Material and Finish	
Press post: Copper alloy, nickel-undercoated, tin/copper alloy-plated	
Wafer: PPA, UL94V-0, natural (ivory)	
Solder tab: Copper alloy, nickel-undercoated, tin/copper alloy-plated	

RoHS compliance This product displays (LF) on a label.
Note: The product listed above is supplied on embossed tape.



BD CONNECTOR (13mm)

13.0mm pitch/Disconnectable Crimp style connectors



Board-to-wire crimping type connector with high withstanding voltage, used for power supply of large LCD (Liquid Crystal Display or Liquid Crystal Television) back light.

Secure locking mechanism prevents from coming off housing when handling the wire harness.

- **Secure locking mechanism**
- **Space saving**
- **High withstand voltage design**
- **Crimping special wire**

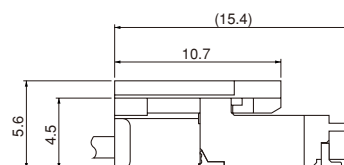
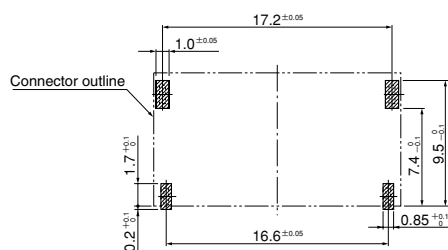
Specifications

- Current rating: 1.0A AC, DC (AWG #24)
- Voltage rating: 3,000V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 5,000V AC/minute
- Applicable wire: AWG #28 to #24
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

 Recognized E60389

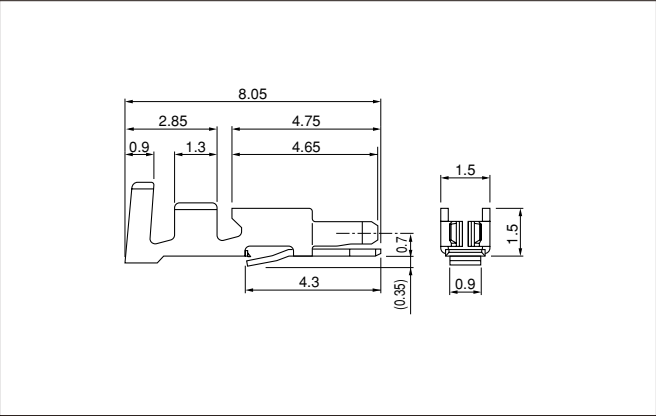
PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ± 0.05 mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

BD CONNECTOR (13mm)

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm²	AWG#		
SBHS-002T-P0.5A	0.08~0.22	28~24	0.9~1.7	10,000

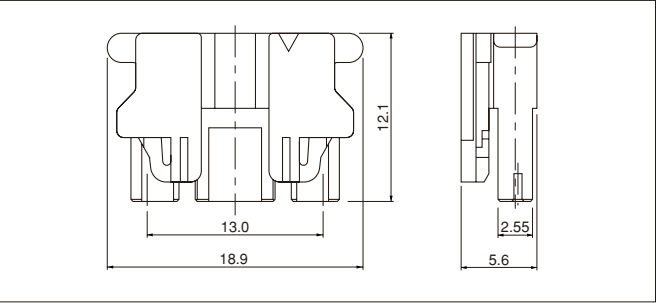
Material and Finish	
Phosphor bronze, tin-plated (reflow treatment)	

RoHS compliance
Note: Contact JST for SBHS-002T-P0.5.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SBHS-002T-P0.5A	AP-K2N	MKS-L	MK/SBHS-002-05-BDA	APLMK SBHS002-05-BDA
		—	—	—

Note: When using this housing, standard applicator and dies for SBHS contact can not be applied.

Housing

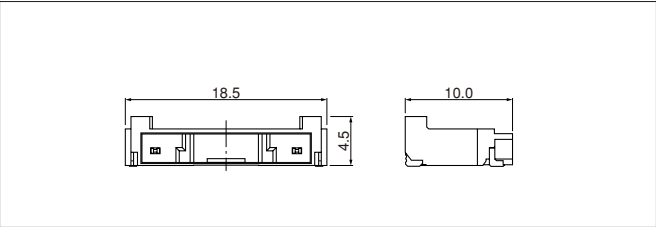


Circuits	Model No.	Q'ty / bag
2	BDAMR-02VAS-3	1,000

Material	
PBT・UL94V-0, natural (white)	

RoHS compliance

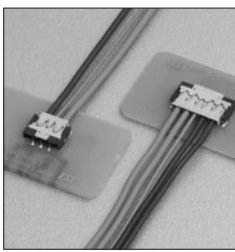
Shrouded header



Circuits	Model No.	Q'ty / reel
2	SM02-BDAS-3-TB	1,500

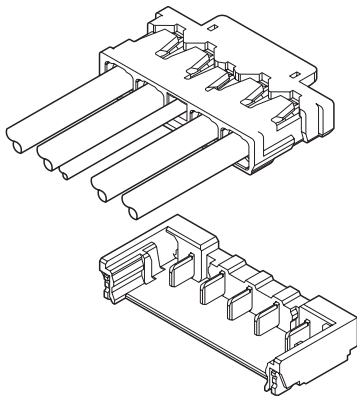
Material and Finish	
Press post: Copper alloy, nickel-undercoated, tin/copper alloy-plated	
Wafer: PPA, UL94V-0, natural (ivory)	
Solder tab: Copper alloy, nickel-undercoated, tin/copper alloy-plated	

RoHS compliance This product displays (LF) on a label.
Note: The product listed above is supplied on embossed tape.



AUH CONNECTOR

Disconnectable Crimp style connectors



This AUH connector is compact and low profile type, height 1.85mm and width 5.2mm, wire-to-board connector. And also 5A in rating current was realized.

- **Space saving**
- **Top entry but side feed type**
- **Combination of power supply and signal circuits**
 - 3 circuits;
Power supply 2 circuits + Signal single circuit
 - 5 circuits;
Power supply 4 circuits + Signal single circuit
- **Connector for DC power supply (5A)**

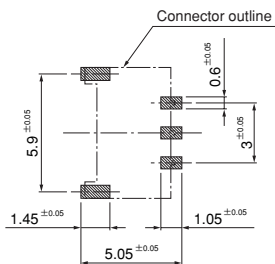
Specifications

- Current rating: Signal circuit/1A AC, DC
Power supply circuit/5A AC, DC (AWG #22)
 - Voltage rating: 30V AC, DC
 - Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
 - Contact resistance: Initial value/ 10m Ω max.
After environmental testing/ 20m Ω max.
 - Insulation resistance: 100M Ω min.
 - Withstanding voltage: 200V AC/ minute
 - Applicable wire:
 - Signal circuit; Conductor size/AWG #30 to #28
Insulation O.D./0.5 to 0.63mm
 - Power supply circuit; Conductor size/AWG #26 to #22
(Recommend UL3619 for AWG#22)
Insulation O.D./0.98 to 1.16mm
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.
* Compliant with RoHS.

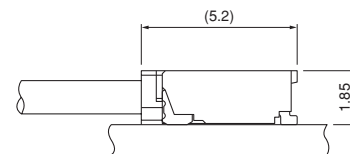
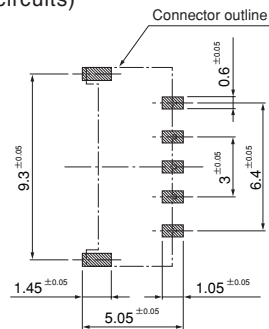
Standards

Recognized E60389

(3 circuits)



(5 circuits)

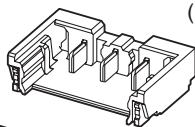


Note: 1. The above figure is the figure viewed from the connector mounting side.

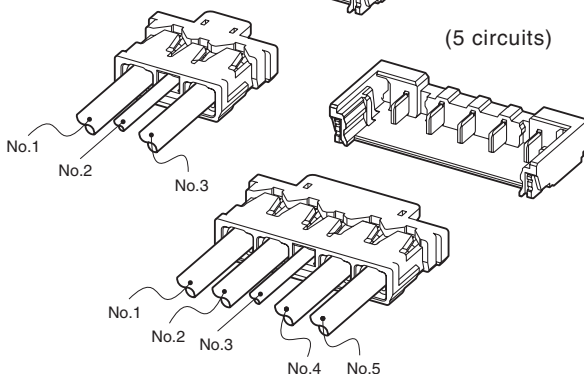
2. Tolerances are non-cumulative: ±0.05mm for all centers. The dimensions above should serve as a guideline. Contact JST for details.

Table of current rating combinations

(3 circuits)



(5 circuits)



Current unit: A

Circuits	Power supply contact Wire to be used	Circuits No.		
		No.1	No.2	No.3
3	AWG#22	5	1	5
	AWG#24	4	1	4
	AWG#26	3.5	1	3.5

■ : Signal contact AWG#30~#28

Current unit: A

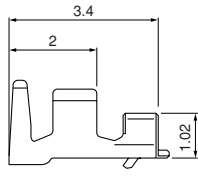
Circuits	Power supply contact Wire to be used	Circuits No.				
		No.1	No.2	No.3	No.4	No.5
5	AWG#22	5	1	1	1	5
		4	4	1	4	4
	AWG#24	4	1	1	1	4
		3.5	3.5	1	3.5	3.5
	AWG#26	3.5	1	1	1	3.5
		3	3	1	3	3

■ : Signal contact AWG#30~#28

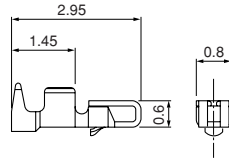
AUH CONNECTOR

Contact

For power supply



For signal



	Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
		mm ²	AWG#		
Power supply	SAUH-001G-M0.2	0.13~0.33	26~22	0.98~1.16	18,000
Signal	SACH-003G-P0.2	0.05~0.08	30~28	0.5 ~0.63	30,000

Material and Finish

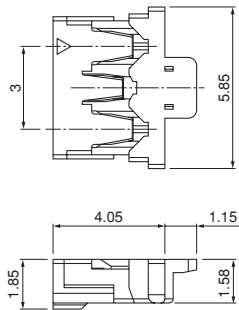
Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance

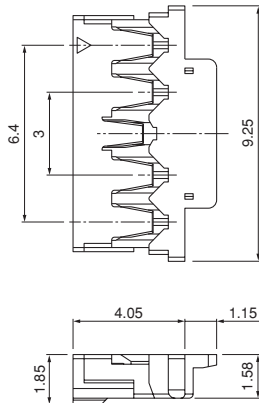
Model No.	Crimping machine	Applicable wire		Insulation O.D. (mm)	Applicator		
		mm ²	AWG#		Crimp applicator	Dies	Crimp applicator with dies
SAUH-001G-M0.2	AP-K2N	0.13~0.21	26~24	0.98~1.11	MKS-L-10	MK/SAUH-001-02	APLMK SAUH001-02
		0.33	22	0.98~1.16	MKS-L-10	MK/SAUH-001-02-K	APLMK SAUH001-02-K
SACH-003G-P0.2		0.05~0.08	30~28	0.5~0.63	MKS-L-10-3	MK/SACH-003-02	APLMK SACH003-02

Housing

(3 circuits)



(5 circuits)



Circuits	Model No.	Q'ty / box
3	AUHR-03V-H	1,000
5	AUHR-05V-H	1,000

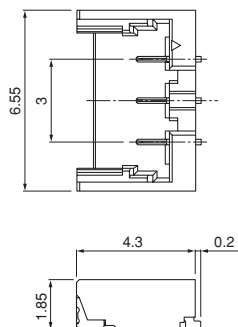
Material

PBT, UL94V-0, gray

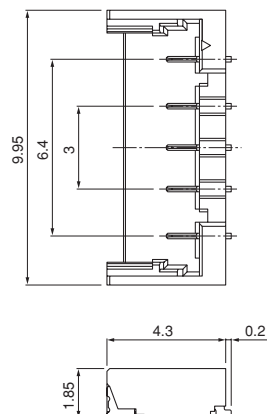
RoHS compliance

Shrouded header

(3 circuits)



(5 circuits)



Circuits	Model No.	Q'ty / reel
3	BM03B-AUHKS-GA-TB	5,000
5	BM05B-AUHKS-GA-TB	5,000

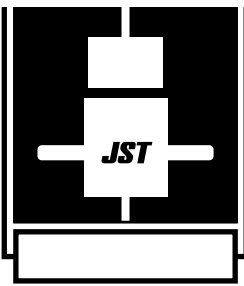
Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated (nickel-stripe)

Housing: Heat resisting resin, UL94V-0, black

Reinforcing tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

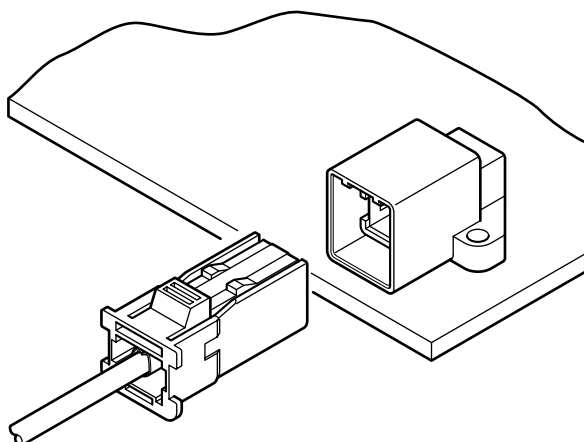


CN CONNECTOR

Disconnectable Crimp style connectors



Connector for the GPS antenna system of the car navigation system. The CN connector applies the unique crimping method to the shielding meshed wires, which will result in superior high-frequency characteristics.



Features

• **Cost effective**

Less expensive than the conventional high-frequency connectors.

• **Crimping method and shape**

Shielding meshed wires are crimped with the N-type crimp shape, which prevents the deflection and coming off of the meshed wires.

• **Superb high-frequency characteristics**

This connector can keep low VSWR characteristics, while serving high-frequency characteristics.

Specifications

- Current rating: 1.0 A AC, DC (AWG #25)
- Voltage rating: 250 V AC, DC
- Temperature range: -30°C to +105°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 30 mΩ max.
After environmental tests/ 60 mΩ max.
- Insulation resistance: 100 MΩ min.
- Withstanding voltage: 1,000 VAC/minute

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

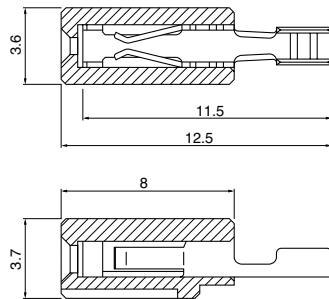
* Contact JST for details.

* Compliant with RoHS.

Contact

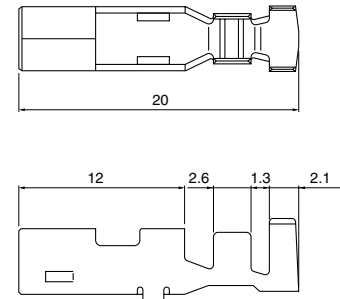
Conductor

Socket contact



Shielding part

Plug contact

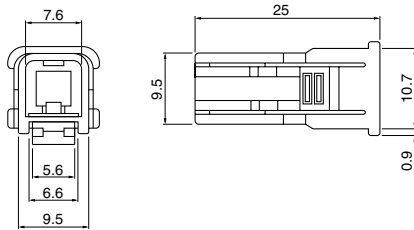


Part name		Model No.	Q'ty / reel	Material and Finish
Conductor	Socket contact	CN-SAS1290	4,000	Phosphor bronze, tin-plated (reflow treatment)
Shielding part	Plug contact	SCM-61T-4.6	1,500	Brass, tin-plated (reflow treatment)

RoHS compliance

Housing

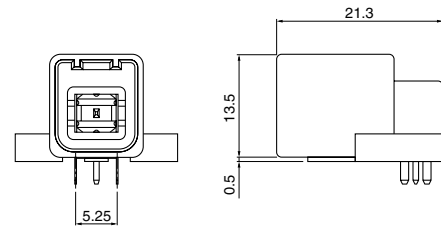
Plug housing



Model No.	Q'ty / box	Material
CNP-01V	1,000	Glass-filled PBT, UL94V-0

RoHS compliance

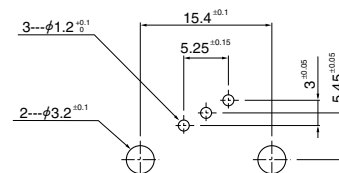
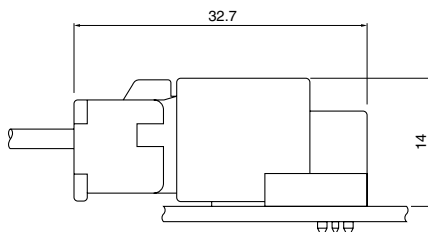
Shrouded header



Model No.	Q'ty / box	Material and Finish
CNB-01AH	120	Contact: Brass, tin-plated (reflow treatment) Housing: Glass-filled PBT, UL94V-0, gray

RoHS compliance

PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
2. Hole dimensions differ according to the type of PC board and piercing method.
The dimensions above should serve as a guideline. Contact JST for details.

Crimping machine, Applicator

Conductor

Contact	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies
CN-SAS1290	AP-K2N	MKS-L	MK/CN-SAP/S1	APLMK CN-SAP/S1

Crimp tool (Pneumatic press)

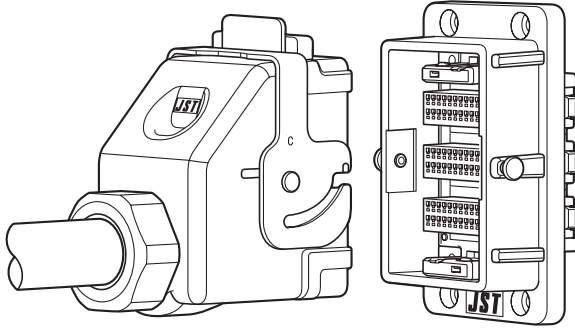
Shielding part

Contact	Crimp tool	Control unit
BCM-61T-4.6 (loose piece)	MP-CN-BCM61	—
SCM-61T-4.6 (chain)	MP-CN-SCM61	MP-CU-CN (S)



JFA CONNECTOR METAL SHELL SERIES

Disconnectable Crimp style (Wire-to-wire connectors)



***Metal shell type I/O connector which contacts are used also with JFA connector J2000 series and J300 series.
2, 3 or 4 modules for contacts are available.***

- ***Applicable contact and tooling can be unified***
- ***Rigid metal shell***
- ***Waterproof performance***
- ***Misinsertion prevention***

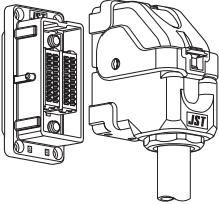
*Contact JST for details.

*Compliant with RoHS.

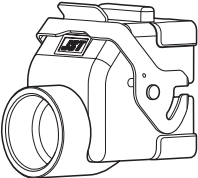
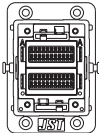
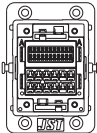
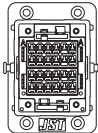
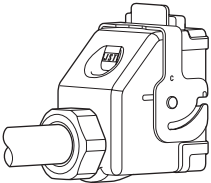
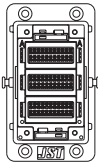
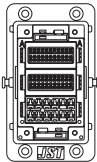
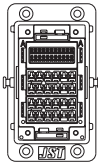
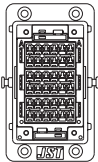
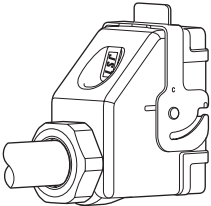
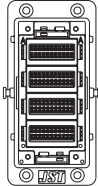
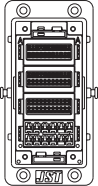
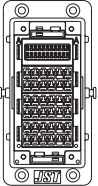
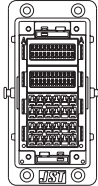
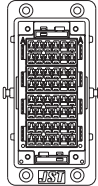
JFA CONNECTOR/METAL SHELL SERIES

List of metal shell

J2900

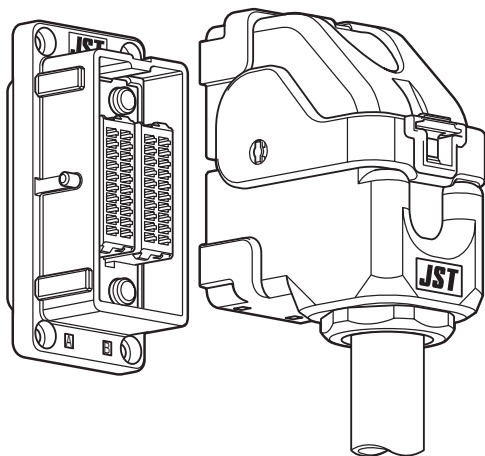
Connector series	J2000 series
	40 circuits
J2900	
Circuits	20 × 2 pcs.

JFA-M

Type	Shell	Hybrid type			
2 Module		J2000(22P) × 2	J2000(22P) × 1+ J300(12P) × 1	J300(12P) × 2	
					
Circuits		44	34	24	
3 Module		J2000(22P) × 3	J2000(22P) × 2 + J300(12P) × 1	J2000(22P) × 1+ J300(12P) × 2	J300(12P) × 3
					
Circuits		66	56	46	36
4 Module		J2000(22P) × 4	J2000(22P) × 3 + J300(12P) × 1 J2000(22P) × 1 + J300(12P) × 1	J2000(22P) × 2 + J300(12P) × 2	J300(12P) × 4
			 		
Circuits		88	78, 58	68	48



JFA CONNECTOR J2900 SERIES



This connector is a metal shell type I/O connector and it's completely waterproof. Contacts are designed to be common use with JFA connector J2000 series.



- ***Rigid metal shell***
- ***Easy mating operation***

Specifications

- Current rating: 3 A max. AC, DC
- Voltage rating: 250 V AC, DC
- Temperature range: -55°C to +105°C
(including temperature rise in applying electrical current)
- Withstanding voltage: 1,500 VAC/minute
- Applicable wire: AWG #28 to #20 (0.08 to 0.75 mm²)
- Cable O.D.: 11.1 to 13.5 mm

*Contact JST for details.

Standards

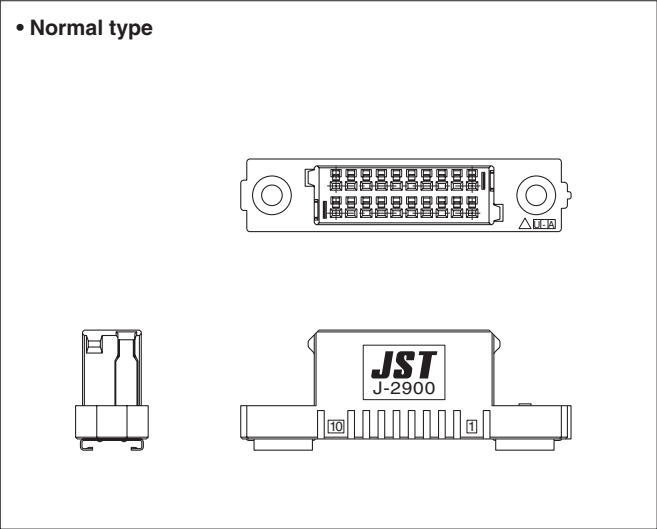
-  Recognized E60389
-  Certified LR 20812

METAL SHELL SERIES/J2900

Receptacle housing assembly

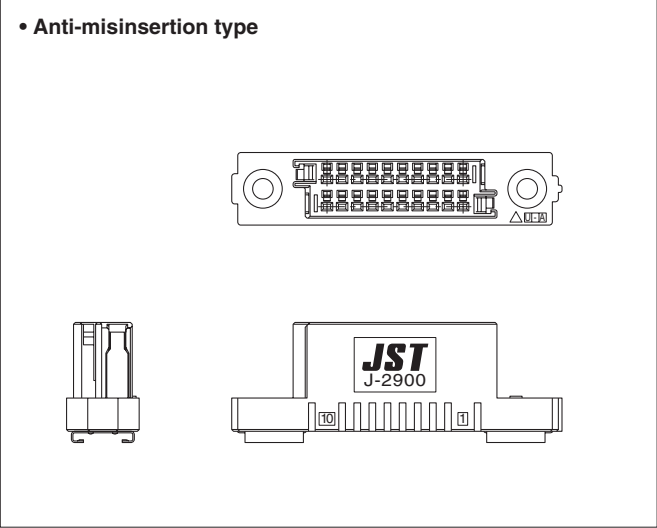
• Normal type

Circuits	Model No.	Q'ty / bag
20	J29FA-20-K	70



• Anti-misinsertion type

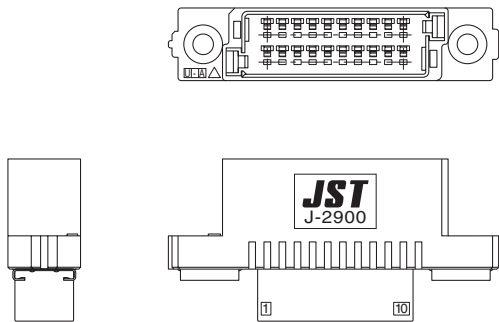
Circuits	Model No.	Q'ty / bag
20	J29FA-20-H-1	70



METAL SHELL SERIES/J2900

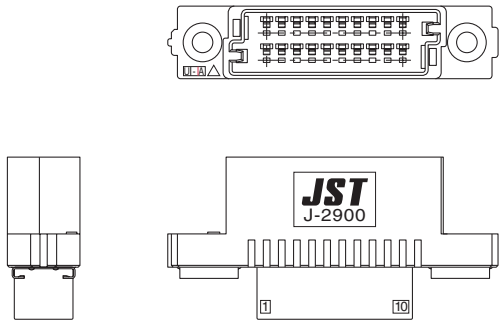
Tab housing assembly

• Normal type



Circuits	Model No.	Q'ty / bag
20	J29MA-20-K	70

• Anti-misinsertion type



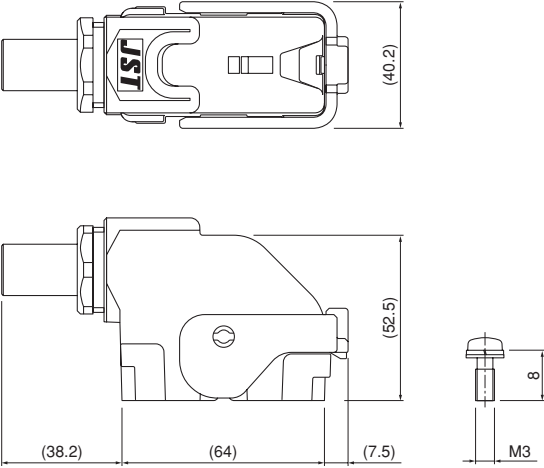
Circuits	Model No.	Q'ty / bag
20	J29MA-20-H-1	70

METAL SHELL SERIES/J2900

Wire side

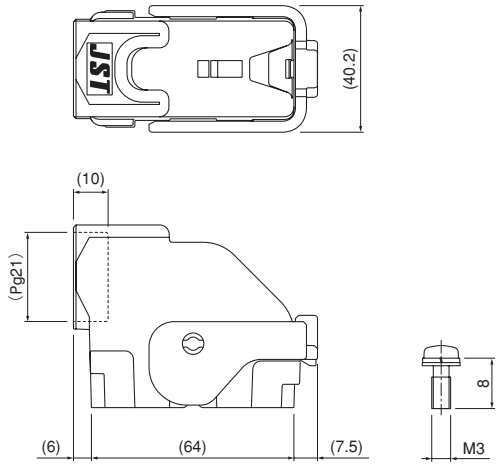
Shell kit

• Normal type



Model No.	Q'ty / bag
J29WK-K-1	30

• For Pg21

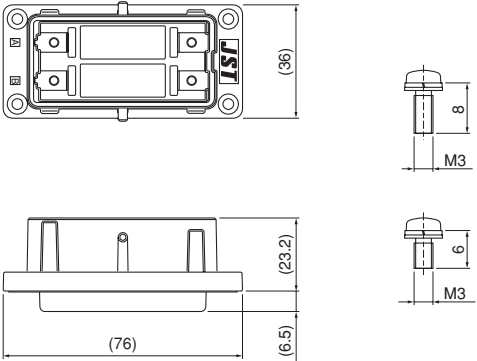


Pg21 screw mounting product (for flexible tubing, etc.)

Model No.	Q'ty / bag
J29WK-K-A	35

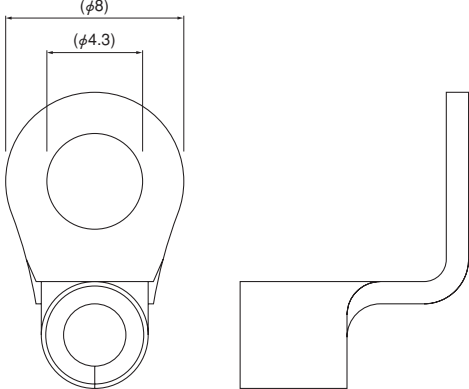
Panel side

Shell kit



Model No.	Q'ty / bag
J29PK-K	35

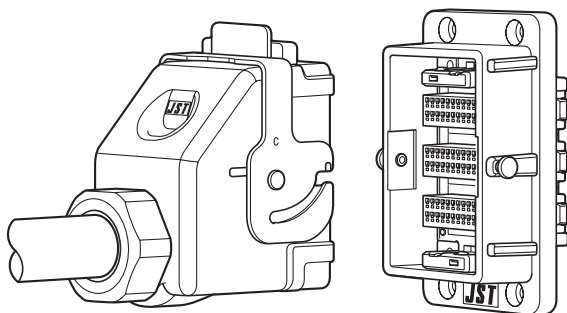
• Ground terminal



Model No.	Q'ty / bag
L3.5-R4	1,000



JFA CONNECTOR JFA-M SERIES



Metal shell type I/O connector which contacts are designed to be common use with JFA connector J2000 series and J300 series.

- ***Rigid metal shell***
- ***Lever (3 and 4 module type) provides easy mating and unmating connector***
- ***Combination of modular housing***

Specifications

- Current rating: Refer to the following matrix table.
- Voltage rating: 250 V AC, DC (J2000 series)
600 V AC, DC (J300 series)
- Temperature range: -55°C to +105°C
(including temperature rise in applying electrical current)
- Withstanding voltage: 1,500 VAC/minute (J2000 series)
2,200 VAC/minute (J300 series)

*Contact JST for details.

Current rating

Unit: A

	J2000 Series	J300 Series
	Wire size	
	AWG#20	AWG#16
2 Module	3(44P)	5(24P)
3 Module	3(66P)	5(36P)
4 Module	2.5(88P)	5(48P)

Standards

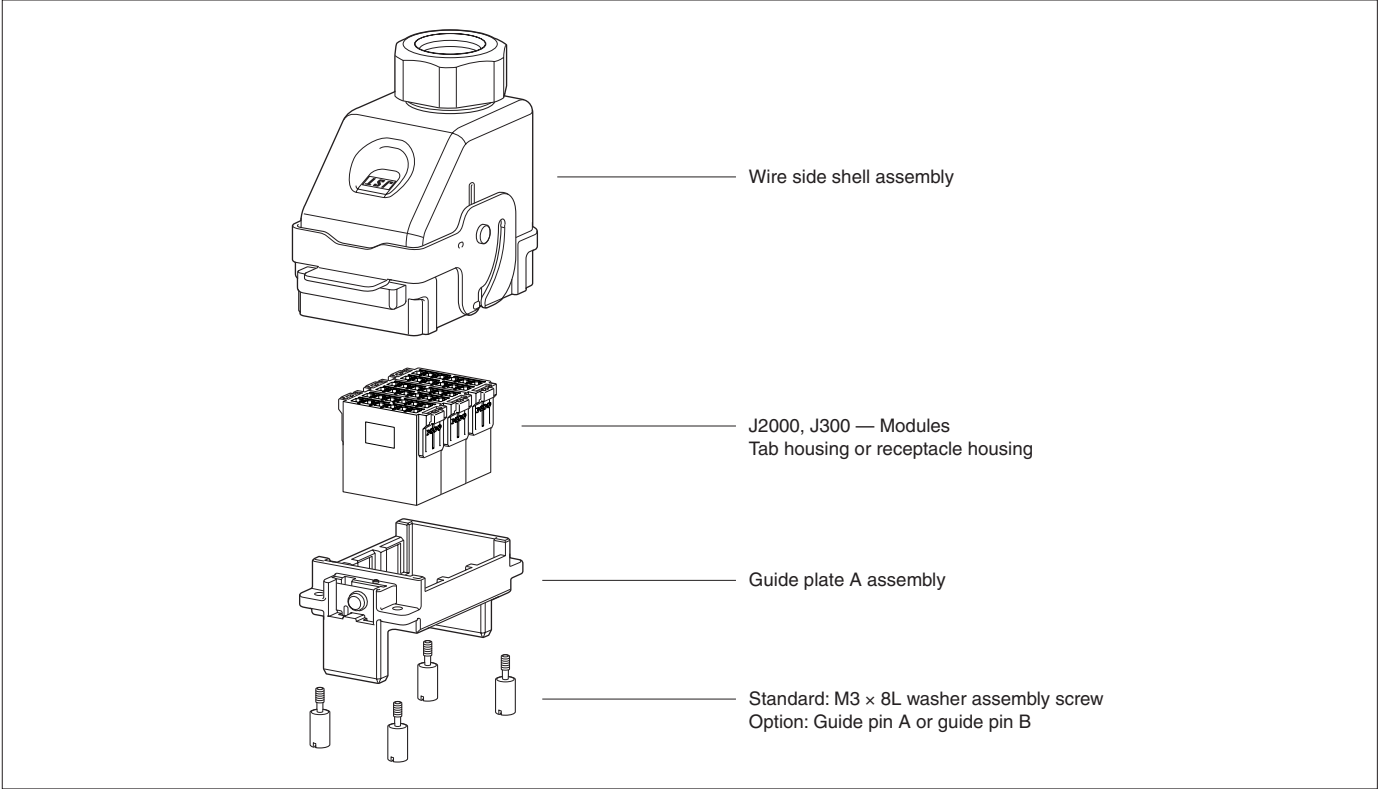
 Recognized E60389

METAL SHELL SERIES/JFA-M

Components

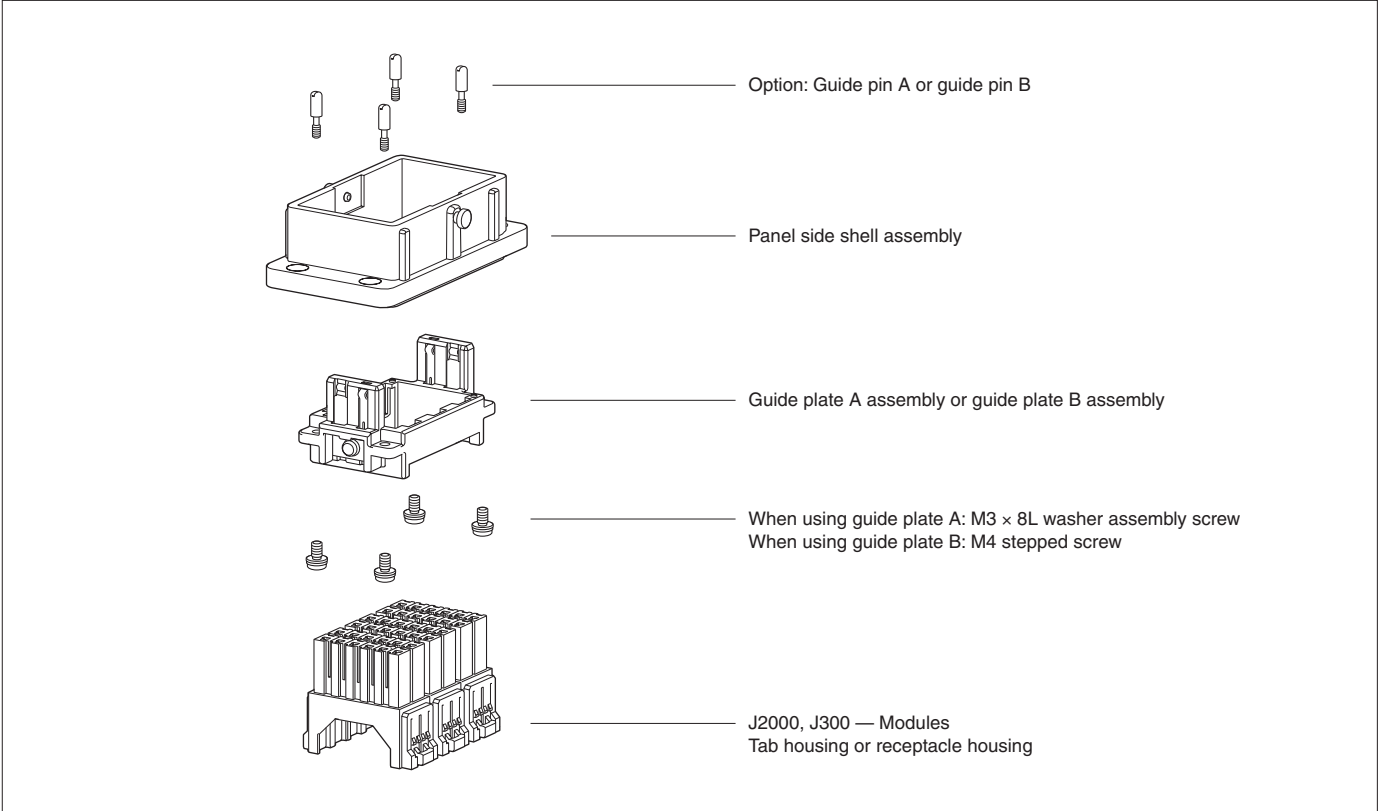
Wire side

Shell assembly



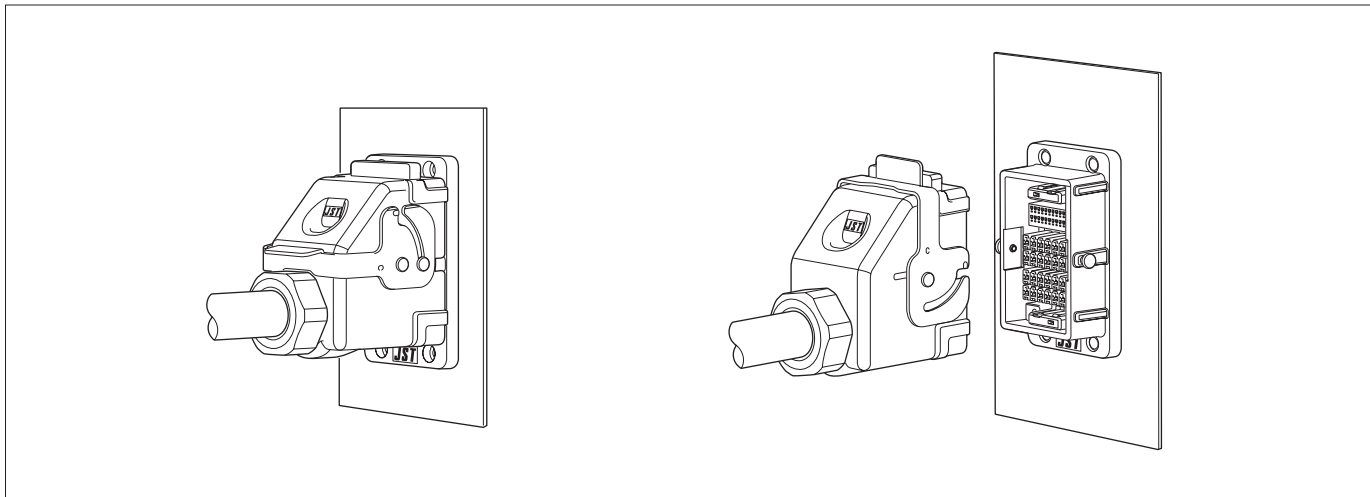
Panel side

Shell assembly

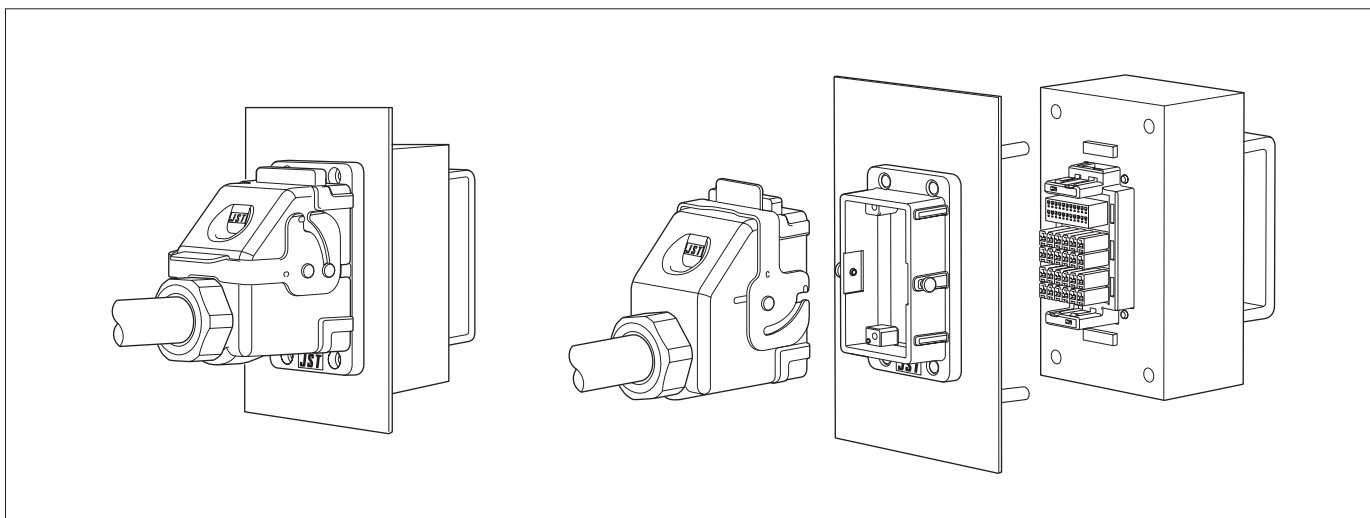


Examples of use

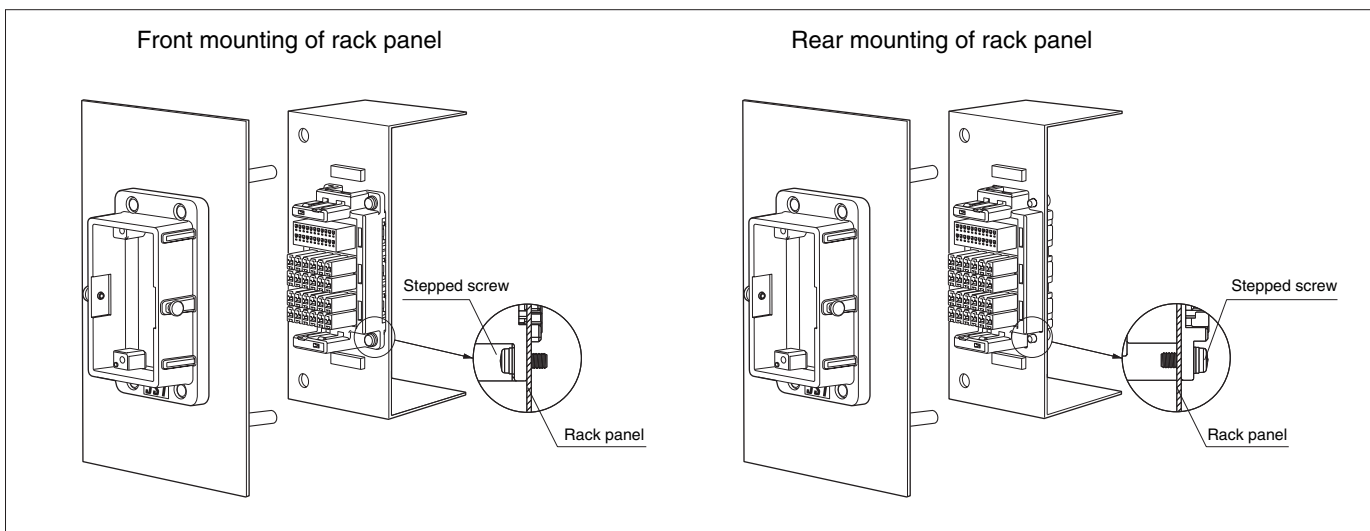
Waterproof I/O connector



Drawer type

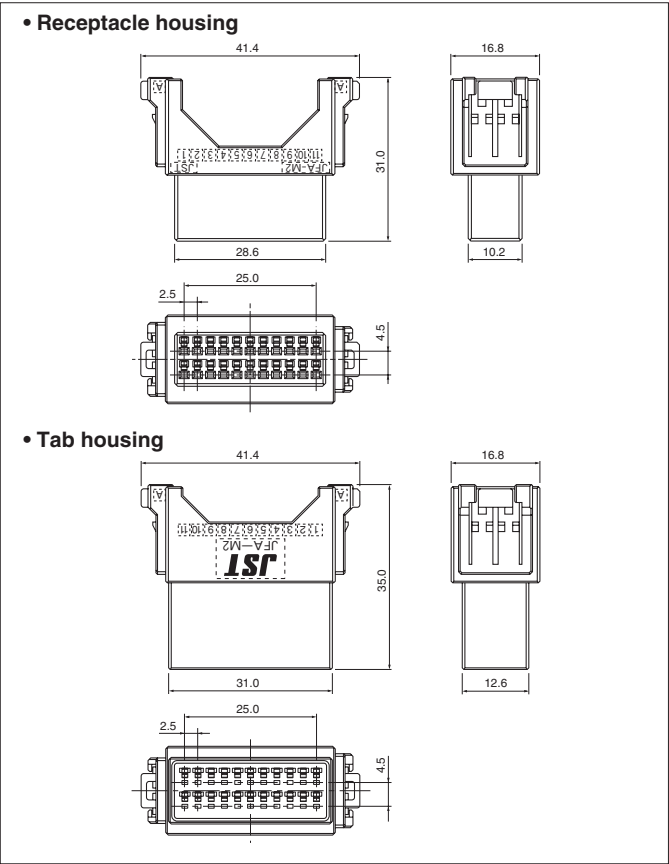


Drawer type (Rack mounting method)



METAL SHELL SERIES/JFA-M

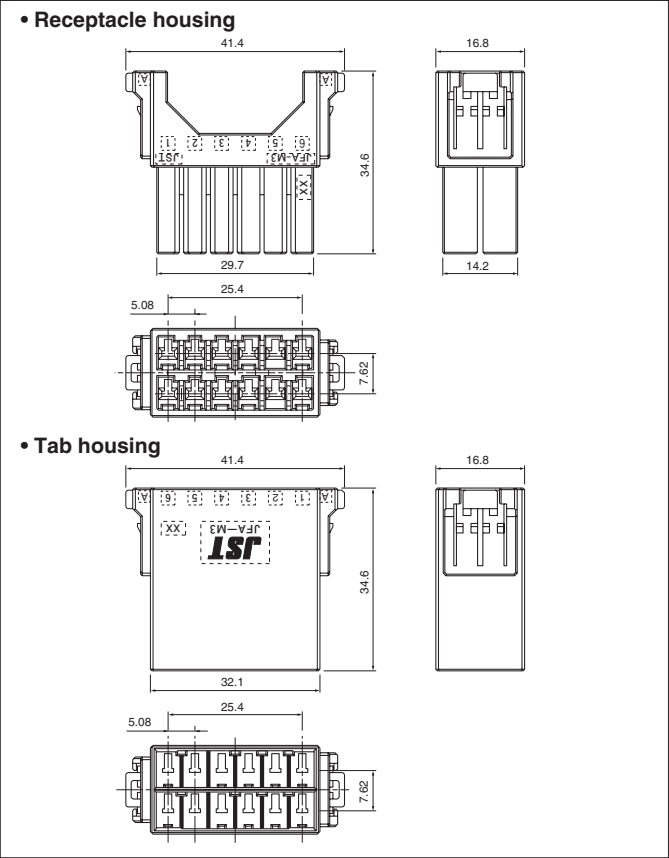
J2000 series housing (Used for both panel mounting and drawer type)



	Model No.	Q'ty / bag
Receptacle housing	JFM2FDN-22V-K	50
Tab housing	JFM2MDN-22V-K	50

RoHS compliance
Note: Refer to page 438 about J2000 series contact.

J300 series housing (Used for both panel mounting and drawer type)



	Model No.	Q'ty / bag
Receptacle housing	JFM3FMN-12V-K	50
Tab housing	JFM3MMN-12V-K	50

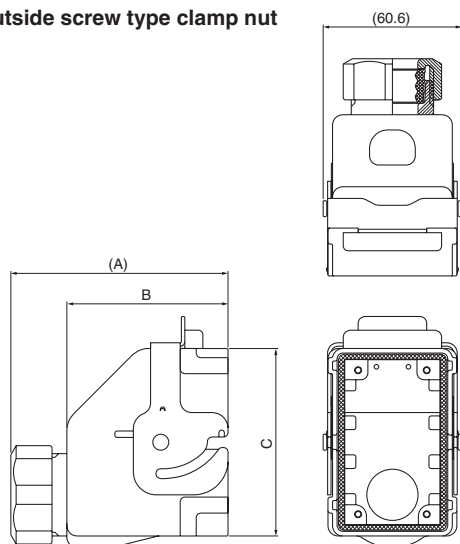
RoHS compliance
Note: Refer to page 4 about J300 series contact.

METAL SHELL SERIES/JFA-M

Wire side

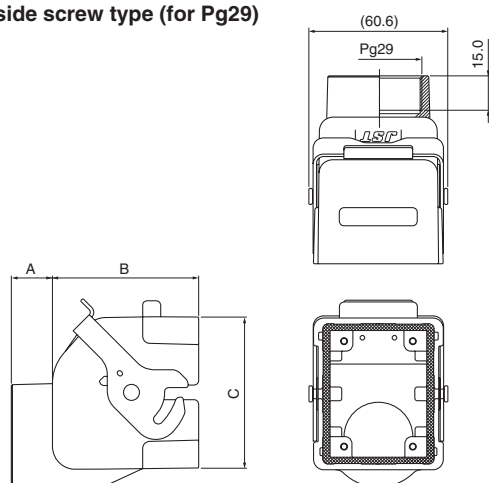
Shell assembly

• Outside screw type clamp nut



No. of combining housing	Model No.	Dimensions (mm)			Q'ty / bag
		A	B	C	
3 module	JFM-WSA-3-B	(95.0)	70.5	82.0	1
4 module	JFM-WSA-4-A	(103.5)	79.0	99.0	1

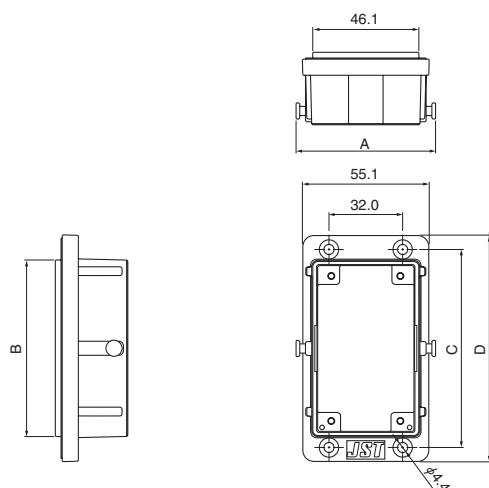
• Inside screw type (for Pg29)



No. of combining housing	Model No.	Dimensions (mm)			Q'ty / bag
		A	B	C	
2 module	JFM-WSA-2-1	18.0	64.0	66.2	1

Panel side

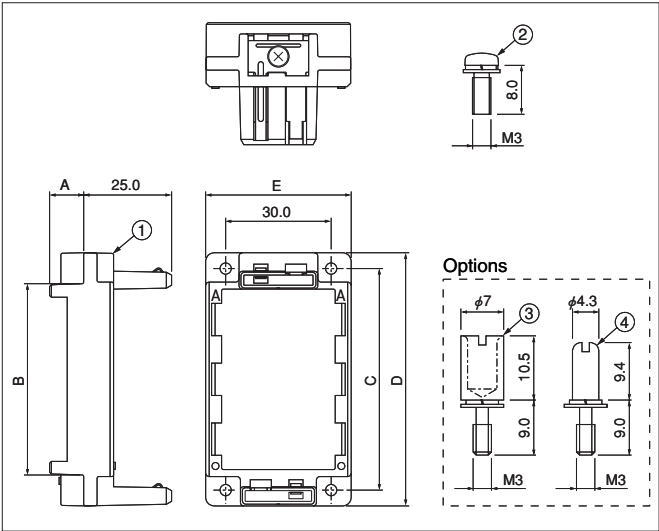
Shell assembly



No. of combining housing	Model No.	Dimensions (mm)				Q'ty
		A	B	C	D	
2 module	JFM-PSA-2	(60.5)	59.7	69.0	81.5	1 (bag)
3 module	JFM-PSA-3	(60.6)	76.7	86.0	98.5	12 (box)
4 module	JFM-PSA-4	(60.6)	93.7	103.0	115.5	10 (box)

METAL SHELL SERIES/JFA-M

Guide plate A (With the combination of wire side and panel side shell assembly)



No. of combining housing	Model No.	Dimensions (mm)					Q'ty
		A	B	C	D	E	
2 module	JFM-GPAK-2	9.6	37.4	46.0	54.8	41.9	1 (bag)
3 module	JFM-GPAK-3	9.7	54.4	63.0	72.0	41.4	24 (box)
4 module	JFM-GPAK-4	9.7	71.4	80.0	89.0	41.4	16 (box)

No.	Parts name	Model No.	Q'ty
①	Guide plate A	—	—
②	Washer assembly screw	—	—
③	Guide pin A	JFM-PIA3-N	1,000 (bag)
④	Guide pin B	JFM-PIB3-N	1,000 (bag)

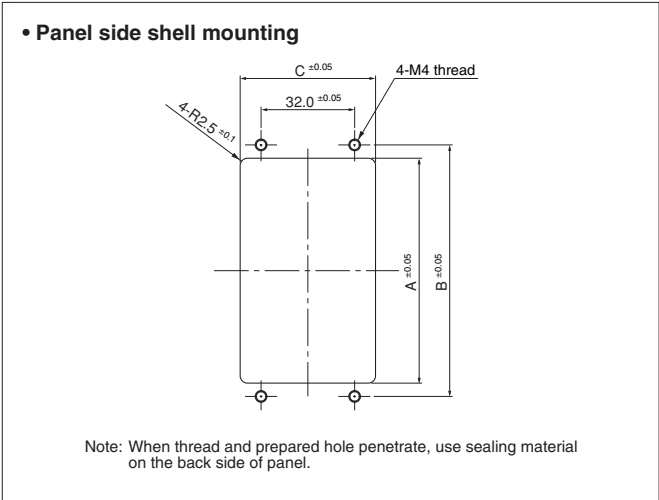
Note: Guide pin A and guide pin B are option.

List of combinations of guide pin A and guide pin B (Shell mounting pattern at panel side)

No. of guide pin	Pattern 1	Pattern 2	Pattern 3	Pattern 4	Pattern 5	Pattern 6
Guide pin A : 0 Guide pin B : 4						
Guide pin A : 1 Guide pin B : 3						
Guide pin A : 2 Guide pin B : 2						
Guide pin A : 3 Guide pin B : 1						
Guide pin A : 4 Guide pin B : 0						

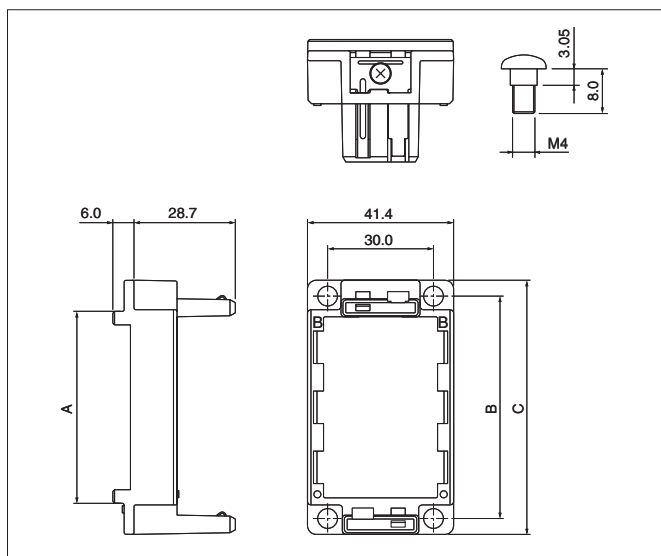
Note: Shell mounting pattern at wire side becomes opposite to the above pattern.

Panel cut dimension



No. of combining housing	Dimensions (mm)		
	A	B	C
2 module	60.0	69.0	46.4
3 module	76.9	86.0	46.3
4 module	93.9	103.0	46.3

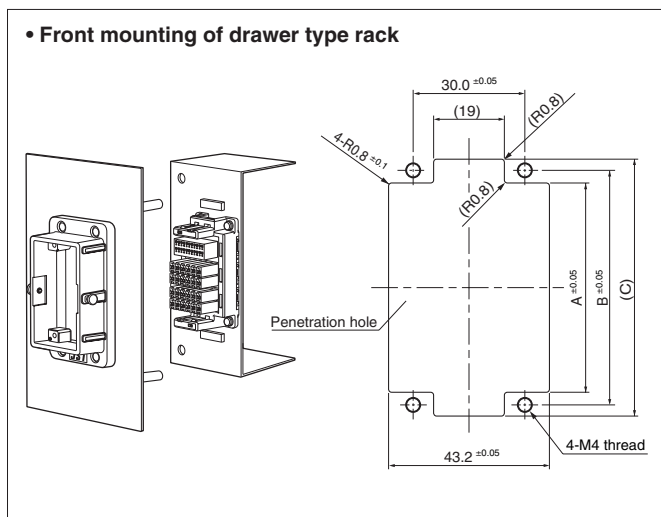
Guide plate B



No. of combining housing	Model No.	Dimensions (mm)			Q'ty / bag
		A	B	C	
3 module	JFM-GPBK-3	54.4	63.0	72.0	24
4 module	JFM-GPBK-4	71.4	80.0	89.0	16

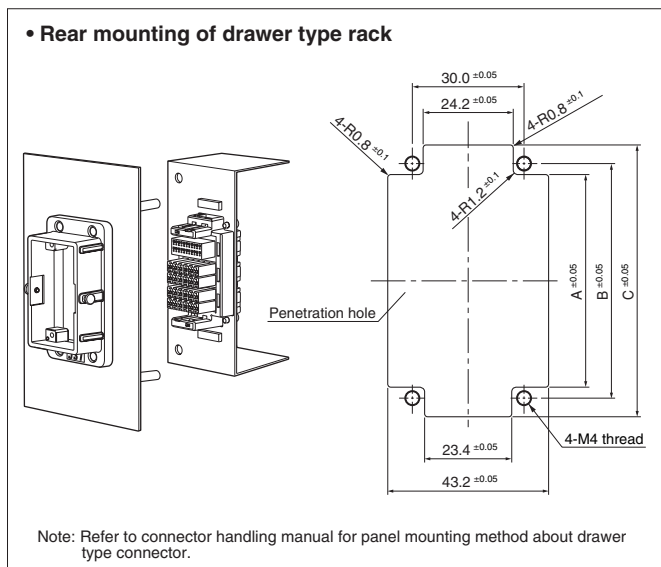
Panel cut dimension

• Front mounting of drawer type rack



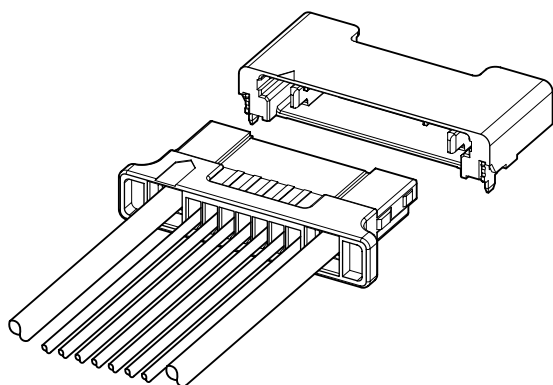
No. of combining housing	Dimensions (mm)		
	A	B	C
3 module	56.2	63.0	69.0
4 module	73.2	80.0	86.0

• Rear mounting of drawer type rack



No. of combining housing	Dimensions (mm)		
	A	B	C
3 module	57.1	63.0	73.0
4 module	74.1	80.0	90.0

Note: Refer to connector handling manual for panel mounting method about drawer type connector.



This connector is for connecting the lithium polymer battery or for connecting DC-IN, and has the sequence structure for connection to the power supply circuit in preference to connection to the signal circuit by dividing the signal circuit and power supply circuit clearly. Moreover, this is the low profile connector (space saving) for applying the high current by adopting the heat radiation structure.

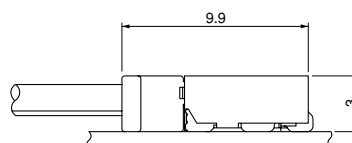
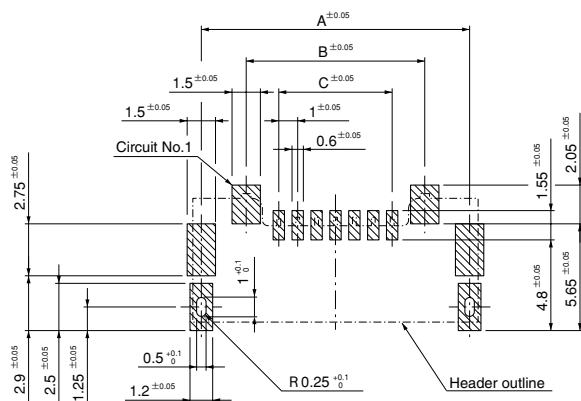
- **Connector for power supply (7A)**
- **Low profile (Space saving)**
- **Hybrid model of Signal circuit
+ Power supply circuit**
- **Heat radiation structure**
- **Sequence structure**
- **High-strength**
- **Check of incomplete mating**

Specifications

- Current rating: Signal circuit/ 0.5 A AC, DC (AWG #28)
Power supply circuit/ 7.0 A AC, DC (AWG #20)
 - Voltage rating: 50 V AC, DC
 - Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
 - Contact resistance: Signal circuit
Initial value/ 20 mΩ max.
After environmental tests/ 40 mΩ max.
Power supply circuit
Initial value/ 15 mΩ max.
After environmental tests/ 30 mΩ max.
 - Insulation resistance: 100 MΩ min.
 - Withstanding voltage: 500 VAC/minute
 - Applicable wire: Signal circuit
Conductor size/ AWG #28
Insulation O.D./ 0.6 to 0.8 mm
Power supply circuit
Conductor size/ AWG #28 to #20
Insulation O.D./ 1.11 to 1.44 mm
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Compliant with RoHS.

Standards

UL Recognized E60389



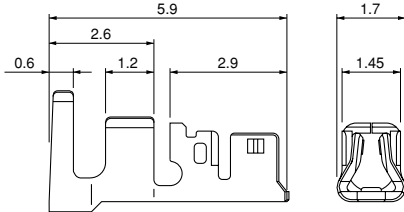
Note: 1. The above figure is the figure viewed from the connector mounting side.

2. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers. The dimensions above should serve as a guideline. Contact JST for details.

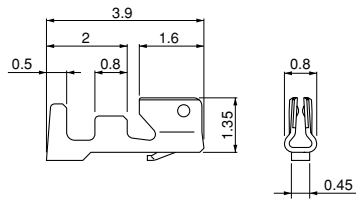
LBT CONNECTOR A Type

Contact

Power supply



Signal



	Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
		mm ²	AWG #		
Power supply	SLBTAD-01T-M0.5	0.22~0.5	24~20	1.11~1.44	7,000
Signal	SSH-003T-P0.2-H	0.08	28	0.6~0.8	23,000

Material and Finish

Power supply: Copper alloy, tin-plated (reflow treatment)
Signal: Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

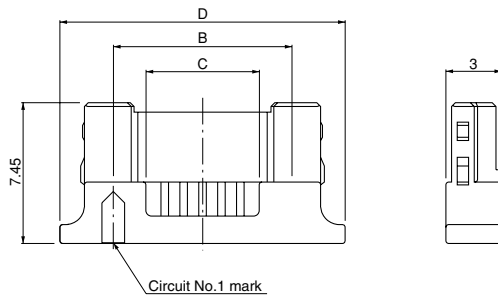
Contact	Crimping machine	Applicable wire		Insulation O.D. (mm)	Applicator		
		mm ²	AWG #		Crimp applicator	Dies	Crimp applicator with dies
SLBTAD-01T-M0.5	AP-K2N	0.22~0.5	24~20	1.11~1.44	MKS-L	MK/SLBTAD-01-05	APLMK SLBTAD01-05
					—	—	—
SSH-003T-P0.2-H	AP-K2N	0.08	28	0.6~0.8	MKS-L-10-3	MK/SSH/L-003-02	APLMK SSH/L003-02
					*MKS-SC	SC/SSH/L-003-02	APLSC SSH/L003-02

Note: 1. T*Strip-crimp applicator

Contact JST for applicable wires in case that it is not usable due to wire size.

2. Contact JST for fully automatic crimping applicator.

Housing



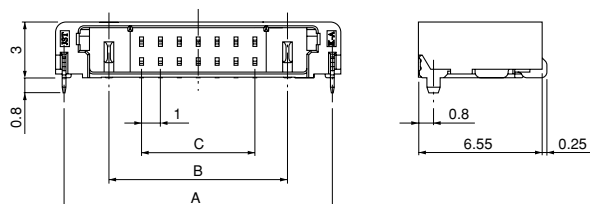
Circuits		Model No.	Dimensions (mm)			Q'ty / bag
Power supply	Signal		B	C	D	
2	7	LBTAR-09V-2K-K(HF)	9.45	6.0	15.1	2,000
	5	LBTAR-07V-2K-K(HF)	7.45	4.0	13.1	2,000
	3	LBTAR-05V-2K-K(HF)	5.45	2.0	11.1	3,000
	1	LBTAR-03V-2K-K(HF)	3.45	—	9.1	3,000

Material

PBT, UL94V-0

RoHS compliance

Header



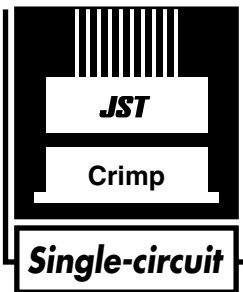
Circuits		Model No.	Dimensions (mm)				Q'ty / reel
Power supply	Signal		A	B	C	D	
2	7	SM09B-LBTAKS-TD-N2T-K(HF)	14.2	9.45	6.0	15.1	1,500
	5	SM07B-LBTAKS-TD-N2T-K(HF)	12.2	7.45	4.0	13.1	1,500
	3	SM05B-LBTAKS-TD-N2T-K(HF)	10.2	5.45	2.0	11.1	1,500
	1	SM03B-LBTAKS-TD-N2T-K(HF)	8.2	3.45	—	9.1	1,500

Material and Finish

Signal contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Power supply contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Housing: Heat resisting resin, UL94V-0
Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

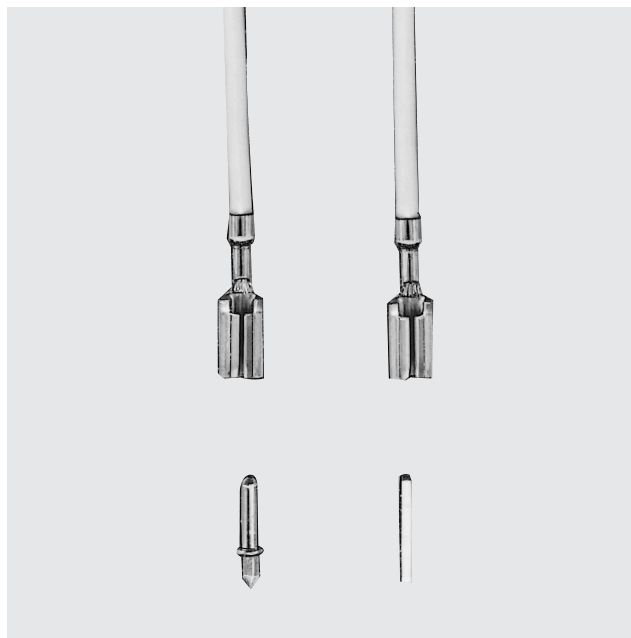
RoHS compliance

Note: The products listed above are supplied on embossed-tape.



SDF TERMINAL

Crimp style terminals for 1.3mm diameter and 1.0mm square contacts



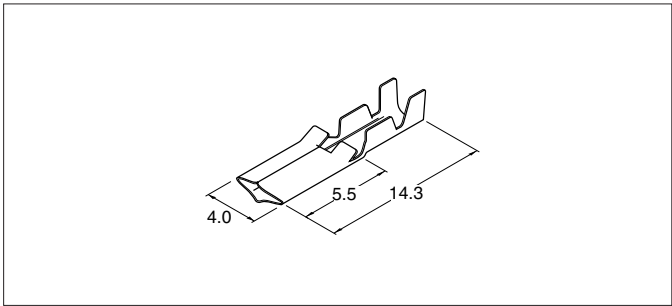
This terminal is used for 1.3mm diameter and 1.0mm square contacts. It can connect wires on high-density printed circuit boards in the same manner as JST's SMF connectors.

The terminal provides a high pressure connection to the post for exceptional reliability.

Specifications

- Current rating: 5A AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/15m Ω max.
- Applicable wire: AWG #24 to #20
- Applicable PC board thickness: 1.6mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Terminal



Model No.	Applicable wire			Applicable pin and post	Q'ty/ reel
	mm ²	AWG #	Insulation O.D.(mm)		
SDF-01T-1.0A	0.2 to 0.5	24 to 20	1.5 to 2.7	WR-1009	6,500
SDF-01T-1.3AS				RT-01T-1.3B	

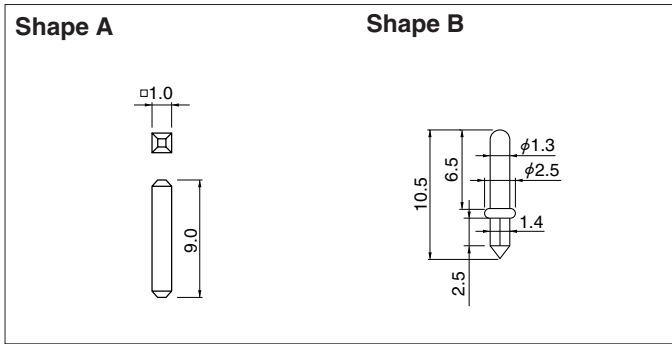
Material and Finish

Brass, tin-plated (reflow treatment)

RoHS compliance

Note:
Contact JST if you require shielded wires or other special wires, or if two leads must be crimped in one contact.

Pin and post



Model No.	Shape	Applicable PC board		Q'ty / box
		Thickness (mm)	Hole diameter (mm) [Reference]	
WR-1009 (1.0X9)	A	1.6	1.30 ± 0.05	20,000
RT-01T-1.3B	B	1.6	1.25 ± 0.05	15,000

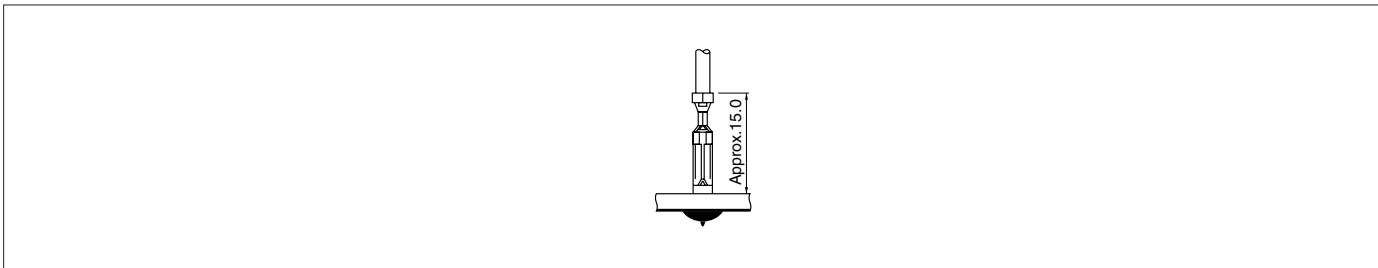
Material and Finish

WR-1009: Brass, copper-undercoated, tin-plated (reflow treatment)
RT-01T-1.3B: Brass, nickel-undercoated, tin/copper alloy-plated

RoHS compliance WR-1009(1.0X9) displays (LF)(SN) on a label.
RT-01T-1.3B displays (LF) on a label.

Note:
Hole dimensions may differ according to the kind of PC board and piercing method.

Assembly layout



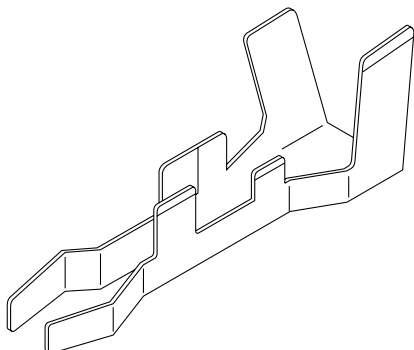
Crimping machine, Applicator

Contact	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies
SDF-01T-1.0A SDF-01T-1.3AS	AP-K2N	MKS-L	MK/SDF-01-13A	APLMK SDF01-13A
		—	—	—



SIN TERMINAL

Single-circuit/Board-in Crimp style terminals



It is time consuming to directly solder the many wires that are required on densely packed printed circuit boards. The SIN terminal is crimped to a wire, inserted into a hole in a printed circuit board, then soldered. Solderability is enhanced because solder does not enter the wire, thus ensuring a safe and secure connection. This terminal is ideal for permanent connection of jumper wires onto a printed circuit board or for connection to external circuits.

Specifications

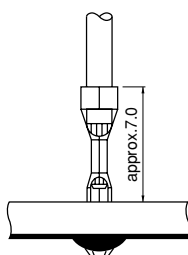
- Current rating: Depends on applicable wires
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Applicable wire: AWG #30 to #10
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Compliant with RoHS.

Standards

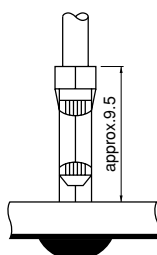
Ⓜ Recognized E60389

Ⓢ Certified LR20812

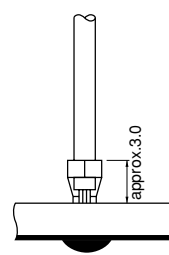
SIN-001T-1.2B



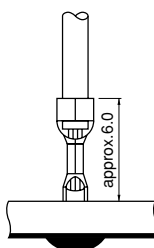
SIN-21T-1.8



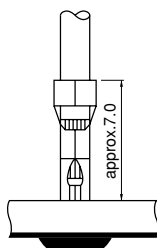
SIN-002T-1.0
SIN-002T-1.2N



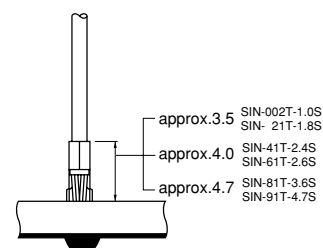
SIN-001T-1.2
SIN-01T-1.2



SIN-01T-1.8
SIN-01T-1.8N

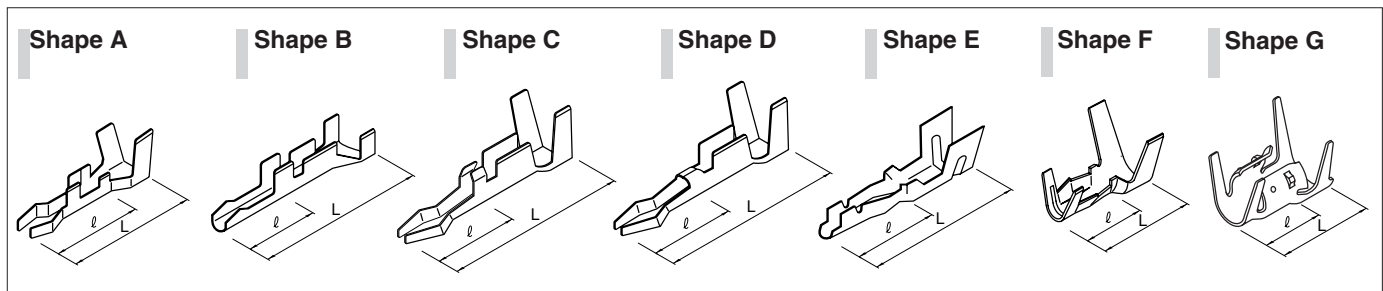


SIN-002T-1.0S SIN-41T-2.4S
SIN-21T-1.8S SIN-61T-2.6S
SIN-81T-3.6S SIN-91T-4.7S



SIN TERMINAL

Terminal



Model No.	Shape	Applicable wire		Insulation O.D. (mm)	L(mm)	ℓ (mm)	Applicable PCB		Q'ty / reel	Material and Finish
		mm ²	AWG #				Thickness(mm)	Hole diameter(mm)		
SIN-002T-1.0	A	0.08~0.13	28~26	0.8~1.3	5.8	3.1	1.6	1.0 ^{+0.05}	9,000	Brass, tin-plated (reflow treatment)
SIN-002T-1.2N		0.08~0.13	28~26	0.9~1.4	6.0	3.3		1.2 ^{+0.05}	9,000	
SIN-01T-1.8	C	0.13~0.5	26~20	1.2~2.5	10.0	3.55		1.8 ^{+0.1} ₀	7,000	
SIN-001T-1.2B	D	0.05~0.22	30~24	0.9~1.5	10.0	3.5		1.2 ^{+0.05}	11,000	
SIN-21T-1.8		0.30~0.83	22~18	1.7~3.8	12.6	3.6	1.2~1.6	1.8 ^{+0.1} ₀	3,000	
SIN-002T-1.0S	E	0.08~0.13	28~26	0.8~1.3	7.0	3.5		1.0 ^{+0.05}	13,000	
*SIN-21T-1.8S	F	0.30~0.83	22~18	1.5~3.0	7.6	4.1		1.8 ^{+0.1} ₀	4,500	
*SIN-41T-2.4S		0.83~1.31	18,16	2.8~3.4	8.3	4.3	1.6	2.4 ^{+0.05}	3,000	
*SIN-61T-2.6S		2.0	14	3.4~3.8	8.3	4.3		2.5 ^{+0.1} ₀	3,000	
*SIN-81T-3.6S		3.3	12	4.0~4.2	9.2	4.5		3.55 ^{+0.05}	2,000	
*SIN-91T-4.7S	G	3.3~5.5	12,10	4.0~4.9	9.4	4.7	1.6	4.7 ^{+0.05}	2,000	
SIN-001T-1.2	B	0.05~0.15	30~26	0.8~1.4	9.1	3.05	1.2	(1.20)	7,500	Brass, copper-undercoated, tin-plated
SIN-01T-1.2		0.2 ~0.5	24~20	1.5~2.3	9.1	3.05			5,000	
SIN-01T-1.8N	C	0.13~0.5	26~20	1.2~2.5	10.0	3.55	1.6	1.8 ^{+0.1} ₀	7,000	

RoHS compliance

Note: 1. The SIN-01T-1.8N terminal requires less force for insertion into a PC board.

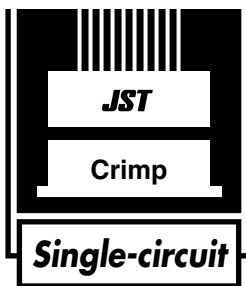
2. *marked terminals are for the use of larger wires (Wire conductors are to be soldered). Contact JST for the details of regarding specifications.

3. Hole dimensions may differ according to the kind of PC board and piercing method.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SIN-002T-1.0	AP-K2N	MKS-L	MK/SIN-002-10	APLMK SIN002-10
		*MKS-SC	SC/SIN-002-10	APLSC SIN002-10
SIN-001T-1.2		MKS-L	MK/SIN-001-12	APLMK SIN001-12
		*MKS-SC	SC/SIN-001-12	APLSC SIN001-12
SIN-01T-1.2		MKS-L	MK/SIN-01-12	APLMK SIN01-12
		*MKS-SC	SC/SIN-01-12	APLSC SIN01-12
SIN-01T-1.8(N)		MKS-L	MK/SIN-01-18	APLMK SIN01-18
		*MKS-SC	SC/SIN-01-18	APLSC SIN01-18
SIN-001T-1.2B		MKS-L	MK/SIN-001-12B	APLMK SIN001-12B
		*MKS-SC	SC/SIN-001-12B	APLSC SIN001-12B
SIN-002T-1.2N		MKS-L	MK/SIN-002-12N	APLMK SIN002-12N
		*MKS-SC	SC/SIN-002-12N	APLSC SIN002-12N

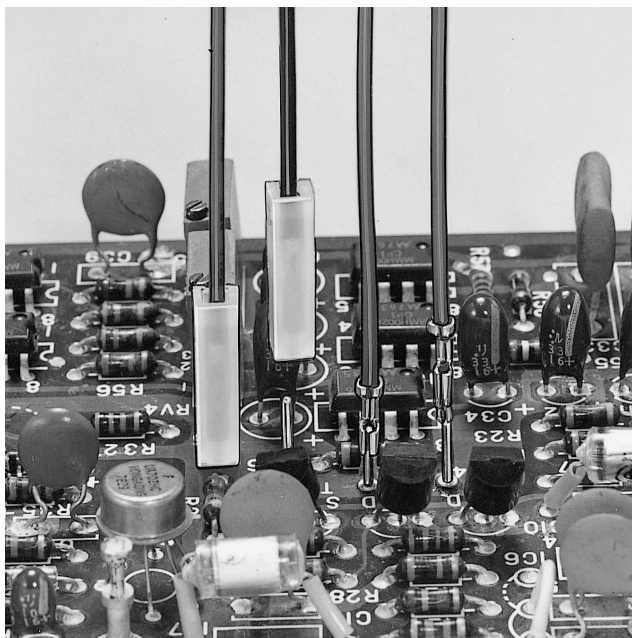
Note: *Strip-crimp applicator

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SIN-21T-1.8	AP-K2N	MKS-L	MK/SIN-21-18	APLMK SIN21-18
		—	—	—
SIN-002T-1.0S		MKS-L-IN	MK/SIN-002-10S	APLMK SIN002-10S
		—	—	—
SIN-21T-1.8S		MKS-L-SIN	MK/SIN-21-18S	APLMK SIN21-18S
		*MKS-SC	SC/SIN-21-18S	APLSC SIN21-18S
SIN-41T-2.4S		MKS-L-SIN	MK/SIN-41-24S	APLMK SIN41-24S
		—	—	—
SIN-61T-2.6S		MKS-L-SIN	MK/SIN-61-26S	APLMK SIN61-26S
		—	—	—
SIN-81T-3.6S		MKS-L-SIN3	MK/SIN-81-36S	APLMK SIN81-36S
		—	—	—
SIN-91T-4.7S		MKS-L-SIN3	MK/SIN-91-47S	APLMK SIN91-47S
		—	—	—



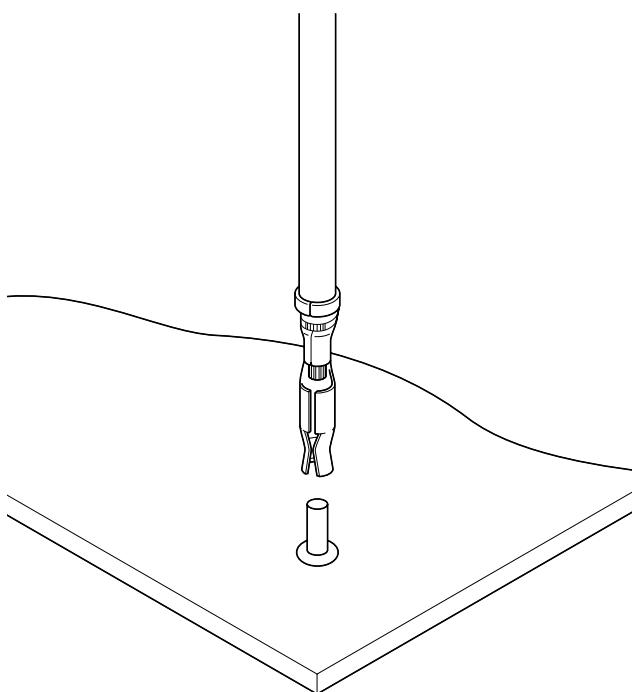
SMF CONNECTOR

Disconnectable Crimp style connector for 1.0mm and 1.3mm diameter pins



This small single-circuit connector connects to 1.0mm and 1.3mm diameter pins and requires only minimal space for connection of wires to high-density printed circuit boards.

The SMF connector has a funnel shaped lead-in to ease insertion and to ensure a balance with its high retaining force.



Specifications

- Current rating: 5A AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/15m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable wire: AWG #26 to #20
- Applicable PC board thickness: 1.6mm
- * Compliant with RoHS.
- * Temperature Range:
The aforementioned temperature range of this connector is described in JST Standard Product Specification.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

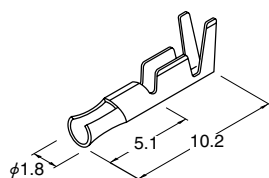
Recognized E60389

Certified LR20812

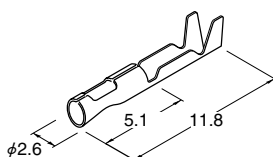
SMF CONNECTOR

Contact

Shape A



Shape B



Model No.	Applicable wire			Shape	Applicable pin	Q'ty / reel
	mm ²	AWG #	Insulation O.D.(mm)			
SMF-01T-1.0	0.13 to 0.5	26 to 20	1.3 to 2.7	A	RT-01T-1.0B	5,000
SMF-01T-1.3				B	RT-01T-1.3B	4,000

Material and Finish

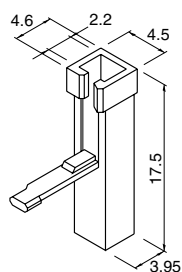
Brass, tin-plated (reflow treatment)

RoHS compliance

Note:

Contact JST if you require shielded wires or other special wires, or if two leads must be crimped in one contact.

Housing



Model No.	Circuit	Insulation O.D.(mm)	Applicable contact	Q'ty / bag
1P-SMF	1	1.3 to 1.7	SMF-01T-1.0	1,000

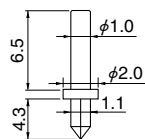
Material

PA 66, UL94V-2, natural (white)

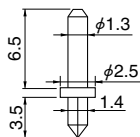
RoHS compliance

Pin

Shape A



Shape B



Model No.	Shape	Applicable PC board		Q'ty / box
		Thickness (mm)	Hole diameter (mm) [Reference]	
RT-01T-1.0B	A	1.6	1.0 ±0.05	20,000
RT-01T-1.3B	B	1.6	1.25 ±0.05	15,000

Material and Finish

Brass, nickel-undercoated, tin/copper alloy-plated

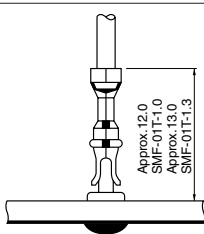
RoHS compliance

This product displays (LF) on a label.

Note:

Hole dimensions may differ according to the kind of PC board and piercing method.

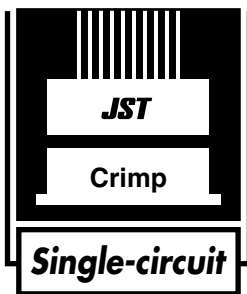
Assembly layout



Crimping machine, Applicator

Contact	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies
SMF-01T-1.0	AP-K2N	MKS-L	MK/SMF-01-10	APLMK SMF01-10
		—	—	—

Contact	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies
SMF-01T-1.3	AP-K2N	MKS-L	MK/SMF-01-13	APLMK SMF01-13
		—	—	—



SPF TERMINAL

Crimp style terminals for 2.36mm diameter pins

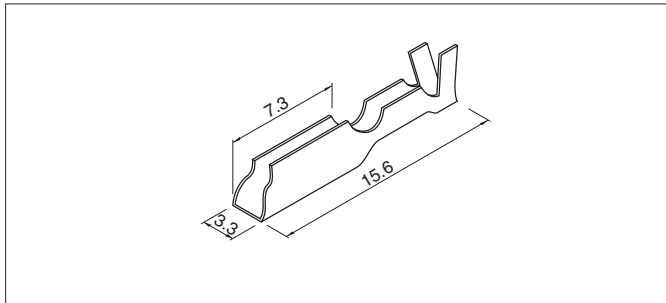


This terminal is used with 2.36mm diameter GT pins. The SPF terminal has a large contact area, withstands stress caused by repeated insertions and removals, and provides excellent retaining force. It is best suited for circuit connections that require a large current.

Specifications

- Current rating: 5A AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/3m Ω max.
After environmental testing/5m Ω max.
- Applicable wire: AWG #24 to #20
- Applicable PC board thickness: 1.6mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Terminal



Model No.	Applicable wire			Q'ty / reel
	mm ²	AWG#	Insulation O.D. (mm)	
SPF-01T-2.5C	0.2 to 0.5	24 to 20	1.6 to 2.7	10,000

Material and Finish

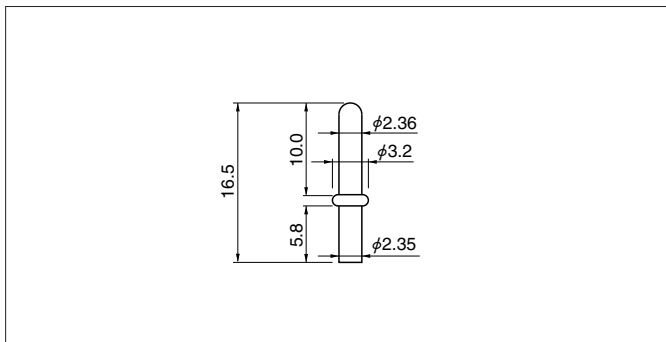
Brass, tin-plated (reflow treatment)

RoHS compliance

Note:

Contact JST for details if you require shielded wires or wires other than those listed above, or if two wires must be crimped.

Pin



Model No.	Applicable PC board		Q'ty / box
	Thickness (mm)	Hole diameter (mm) [Reference]	
RT-01N-2.3A	1.6	2.36 ±0.05	5,000

Material and Finish

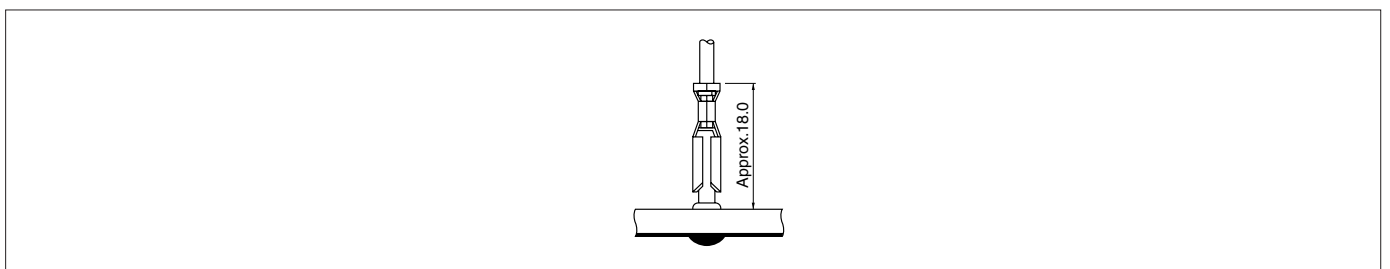
Brass, copper-undercoated, nickel-plated

RoHS compliance

Note:

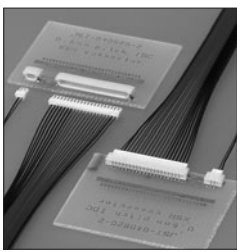
Hole dimensions may differ according to the kind of PC board and piercing method.

Assembly layout



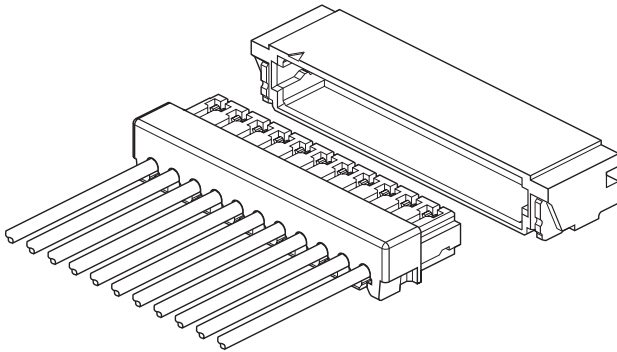
Crimping machine, Applicator

Contact	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies
SPF-01T-2.5C	AP-K2N	MK-L	MK/SPF-01-25C	APLMK SPF01-25C
		—	—	—



XSR CONNECTOR

0.6mm pitch/Disconnectable Insulation displacement connectors



This is the world's smallest 0.6mm pitch ID connector for discrete wires.
This Wire to Board miniaturized connector has a mounting height of 1.45mm and depth of 3.0mm.

- Space saving
- Twin U-slot insulation displacement section
- New strain relief structure
- Suitable for thin wires
- Applicable to automatic ID machines

Specifications

- Current rating: 0.2A AC, DC
- Voltage rating: 30V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 30m Ω max.
After environmental testing/ 50m Ω max.
- Insulation resistance: 100M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable wire: Conductor size/ AWG #36
Conductor/ 7 strands,
tin-coated copper alloy
Insulation O.D./ 0.29mm

* Compliant with RoHS.

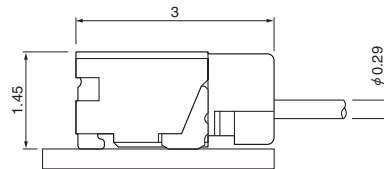
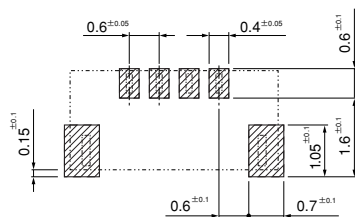
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

Standards

Recognized E60389

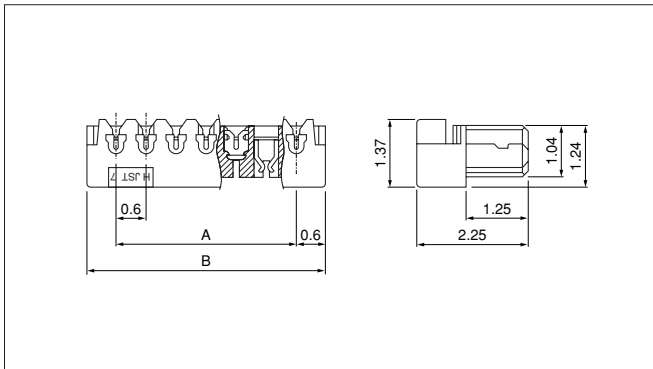
Certified LR20812



Note: 1. The above figure is the figure viewed from the connector mounting side.
 2. Tolerances are non-cumulative: ± 0.05 mm for all centers.
 3. The dimensions above should serve as a guideline. Contact JST for details.

XSR CONNECTOR

Socket



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	02XSR-36S	0.6	1.8	4,000
4	04XSR-36S	1.8	3.0	4,000
6	06XSR-36S	3.0	4.2	4,000
10	10XSR-36S	5.4	6.6	4,000
16	16XSR-36S	9.0	10.2	4,000
20	20XSR-36S	11.4	12.6	4,000
22	*22XSR-36S	12.6	13.8	4,000

Material and Finish

Contact: Copper alloy, tin-plated (reflow treatment)

Housing: PA, UL94V-0, natural

RoHS compliance

Note: *Marked products are not UL/CSA approved.

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

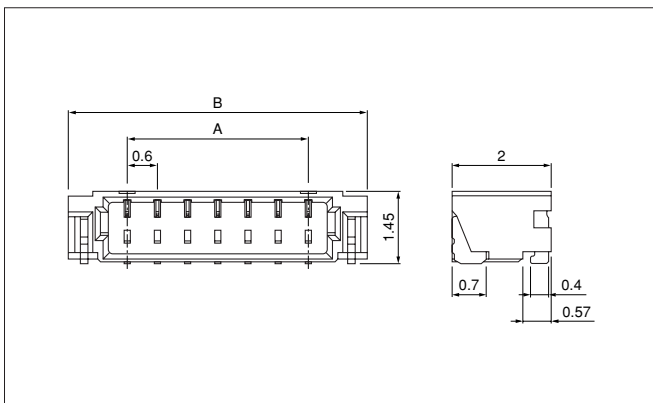
ex. **02XSR-36S**

S...natural (standard color)

LG...light green LP...light purple L...lemon yellow

PK...pink LE...light blue O...orange

Header



Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
2	SM02B-XSRS-ETB	0.6	3.0	3,500
4	SM04B-XSRS-ETB	1.8	4.2	3,500
6	SM06B-XSRS-ETB	3.0	5.4	3,500
10	SM10B-XSRS-ETB	5.4	7.8	3,500
16	SM16B-XSRS-ETB	9.0	11.4	3,500
20	SM20B-XSRS-ETB	11.4	13.8	3,500
22	*SM22B-XSRS-ETB	12.6	15.0	3,500

Material and Finish

Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Housing: PA, UL94V-0, natural

Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Note: 1. This products listed above are supplied on embossed-tape.

2. *Marked products are not UL/CSA approved.

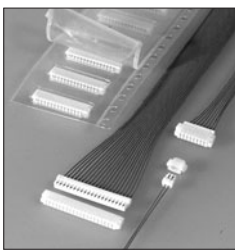
<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **SM02B-XSRS-ETB**

S...natural (standard color)

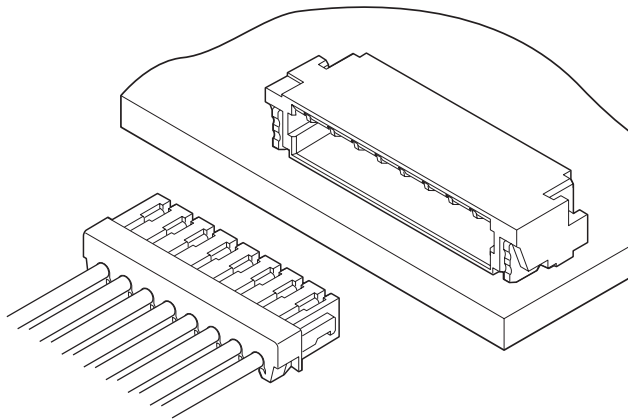
LG...light green LP...light purple L...lemon yellow

PK...pink LE...light blue O...orange



SUR CONNECTOR

0.8mm pitch/Disconnectable Insulation displacement connectors



The world's first 0.8mm pitch wire-to-board insulation displacement connector. Side entry type is only 3.9mm depth and 1.75mm height after mounting on the PC board, and top entry type is only 2.2mm depth and 3.9mm height. Compared to the conventional 1.0mm pitch SSR connector, occupation space on the board is reduced by 34% (side entry type).

- 3-point grip construction
- Super fine wires are applicable
- Shrouded header
- Twin U-slot insulation displacement section

Specifications

- Current rating: 0.5A AC, DC (AWG #32)
0.2A AC, DC (AWG #36)
- Voltage rating: 30V DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 20m Ω max.
After environmental testing/ 40m Ω max.
- Insulation resistance: 100M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable wire: Conductor size/ AWG #32, #36
Conductor/ 7 strands,
tin-coated copper alloy
Insulation O.D./ 0.39mm

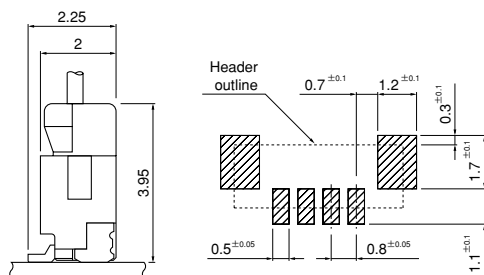
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

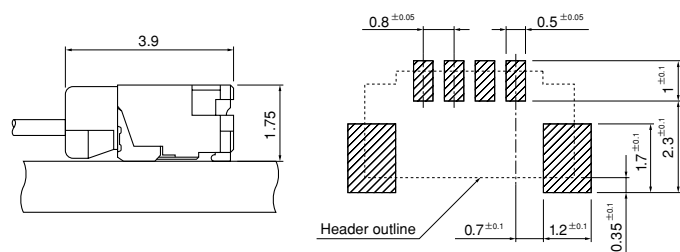
Recognized E60389

Certified LR20812

Top entry type



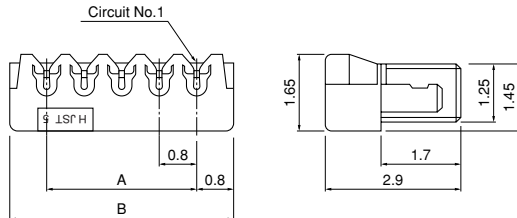
Side entry type



Note: 1. The above figure is the figure viewed from the connector mounting side.
2. Tolerances are non-cumulative: ± 0.05 mm for all centers.
3. Dimensions above should serve as a guideline. Contact JST for details.

SUR CONNECTOR

Socket



Circuits	Model No.		Dimensions (mm)		Q'ty / box
	#32(Natural)	#36(Lemon yellow)	A	B	
2	02SUR-32S	02SUR-36L	0.8	2.4	2,000
3	03SUR-32S	03SUR-36L	1.6	3.2	2,000
4	04SUR-32S	04SUR-36L	2.4	4.0	2,000
5	05SUR-32S	05SUR-36L	3.2	4.8	2,000
6	06SUR-32S	06SUR-36L	4.0	5.6	2,000
8	08SUR-32S	08SUR-36L	5.6	7.2	2,000
10	10SUR-32S	10SUR-36L	7.2	8.8	2,000
12	12SUR-32S	12SUR-36L	8.8	10.4	2,000
14	14SUR-32S	14SUR-36L	10.4	12.0	2,000
15	15SUR-32S	15SUR-36L	11.2	12.8	2,000
16	16SUR-32S	16SUR-36L	12.0	13.6	2,000
17	17SUR-32S	17SUR-36L	12.8	14.4	2,000
20	20SUR-32S	20SUR-36L	15.2	16.8	2,000
22	22SUR-32S	22SUR-36L	16.8	18.4	2,000

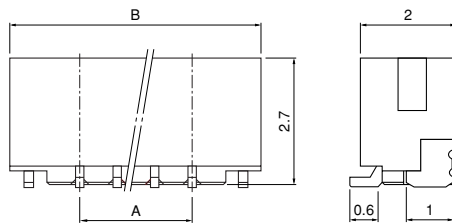
Material and Finish

Contact: Copper alloy, tin-plated (reflow treatment)
Housing: PA, UL94V-0

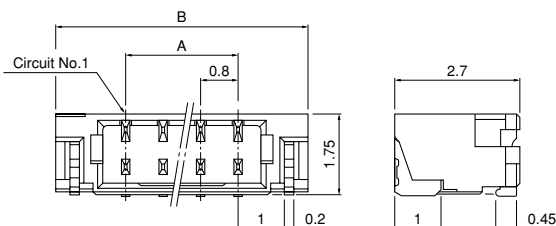
RoHS compliance

Shrouded header

Top entry type



Side entry type

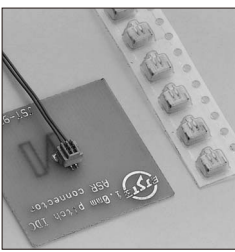


Circuits	Model No.		Dimensions (mm)		Q'ty / reel	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
2	BM02B-SURS-TF	SM02B-SURS-TF	0.8	3.8	2,500	3,500
3	BM03B-SURS-TF	SM03B-SURS-TF	1.6	4.6	2,500	3,500
4	BM04B-SURS-TF	SM04B-SURS-TF	2.4	5.4	2,500	3,500
5	—	SM05B-SURS-TF	3.2	6.2	—	3,500
6	—	SM06B-SURS-TF	4.0	7.0	—	3,500
8	BM08B-SURS-TF	SM08B-SURS-TF	5.6	8.6	2,500	3,500
10	BM10B-SURS-TF	SM10B-SURS-TF	7.2	10.2	2,500	3,500
12	BM12B-SURS-TF	SM12B-SURS-TF	8.8	11.8	2,500	3,500
14	—	SM14B-SURS-TF	10.4	13.4	—	3,500
15	BM15B-SURS-TF	SM15B-SURS-TF	11.2	14.2	2,500	3,500
16	—	SM16B-SURS-TF	12.0	15.0	—	3,500
17	—	SM17B-SURS-TF	12.8	15.8	—	3,500
20	BM20B-SURS-TF	SM20B-SURS-TF	15.2	18.2	2,500	3,500
22	—	SM22B-SURS-TF	16.8	19.8	—	3,500

Material and Finish

Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA, UL94V-0, natural
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

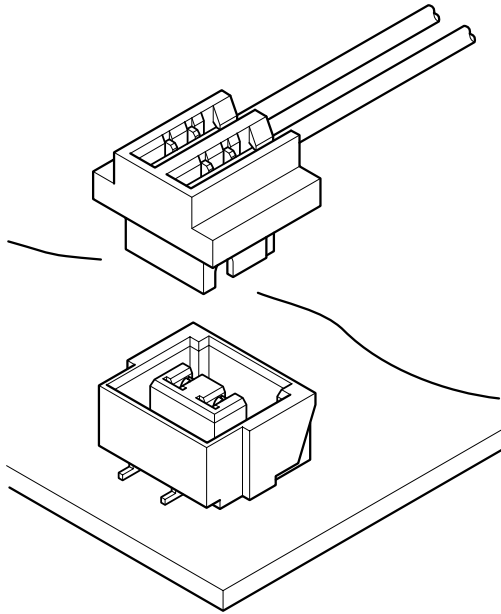
RoHS compliance This product displays (LF)(SN) on a label.
Note: The products listed above are supplied on embossed-tape.



ASR CONNECTOR



1.0mm pitch/Disconnectable Insulation displacement connectors



- **Compact**
- **Twin U-slot insulation displacement section**
- **3-point grip construction**
- **Header designed for vacuum pick and place robotics**

Specifications

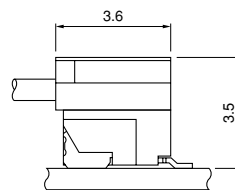
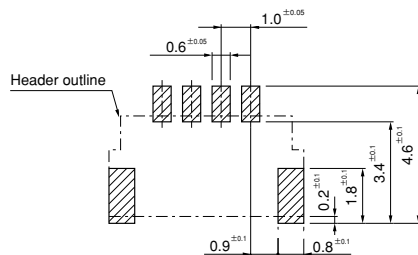
- Current rating: 0.7A DC
- Voltage rating: 50V DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/30m Ω max.
After environmental testing/40m Ω max.
- Insulation resistance: 100M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable wire: Conductor size/AWG #30
Conductor/7 strands,
tin-coated annealed copper
Insulation O.D./0.54 to 0.58mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

Recognized E60389

Certified LR20812

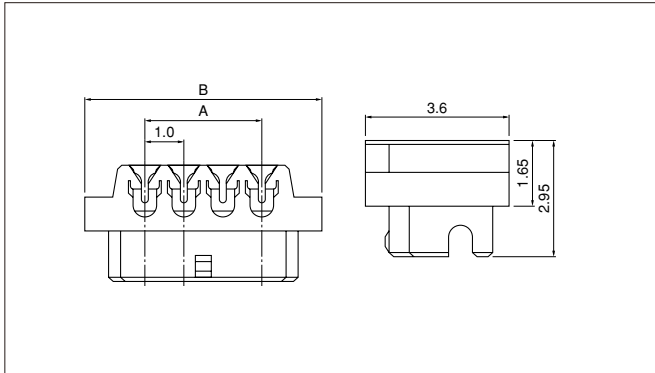
PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ± 0.05 mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

ASR CONNECTOR

Socket



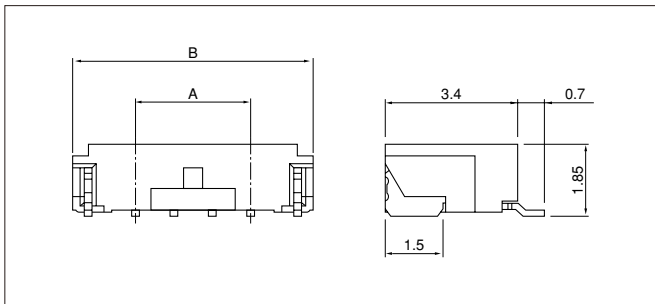
Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	02ASR-30S	1.0	4.0	3,000
3	03ASR-30S	2.0	5.0	3,000
4	04ASR-30S	3.0	6.0	3,000

Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: Glass-filled PA 66, UL94V-0, natural

RoHS compliance

Shrouded header

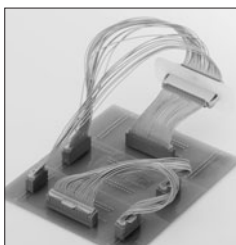


Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
2	BM02B-ASRS-TF	1.0	4.4	3,500
3	BM03B-ASRS-TF	2.0	5.4	3,500
4	BM04B-ASRS-TF	3.0	6.4	3,500

Material and Finish

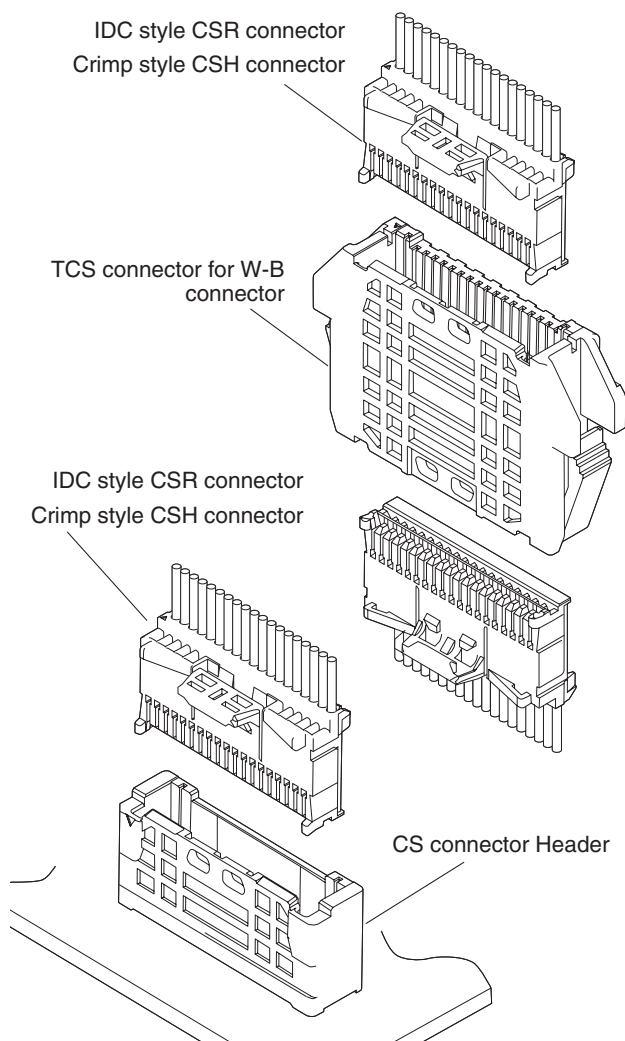
Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 6T, UL94V-0, natural
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.
Note: The products listed above are supplied on embossed-tape.



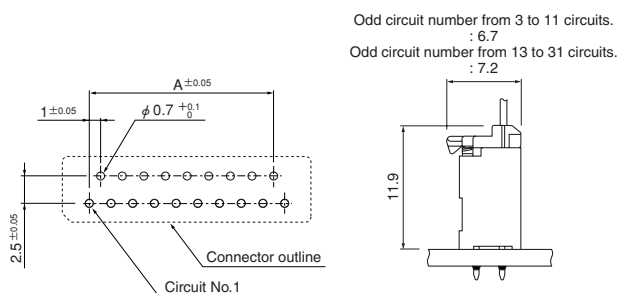
CS FAMILY SERIES / CSR·CSH·CS·TCS CONNECTOR

1.0mm pitch/Disconnectable Insulation displacement and Crimp style connectors



This is a 1.0mm pitch insulation displacement connector with the secure locking structure to prevent coming off the connector and incomplete mating. 1.8A in rated current was realized by using AWG#27. The various wide usage can be provided, since multi-IDC-harnesses by automatic IDC machine, crimping type, and header for wire to wire connection are available.

CS connector



Note: 1. The above figure is the figure viewed from the connector mounting side.
2. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
3. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

CS connector

- **Secure locking structure**
- **Realization of multi-circuits by low insertion force**
- **Countermeasure for unexpected prying insertion**

CSH connector

- **Housing lances**
- **Interchangeability**
- **Realized current rating of 2A with AWG#26**

TCS connector

- **Secure locking structure**
- **Countermeasure for unexpected prying insertion**

Standards

Recognized E60389

Certified LR20812

Specifications

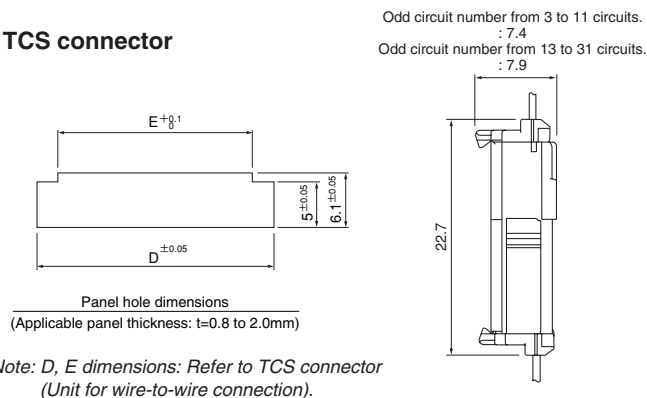
	CSR · CS connector	CSH · CS connector	TCS connector
Current rating	1.8A (AWG #27)	2A (AWG #26)	
Voltage rating	50V AC · DC		
Temperature rise	-25°C to +85°C (including temperature rise)		
Contact resistance	Initial value / 15mΩ max. After environmental testing / 30mΩ max.		Initial value / 25mΩ max. After environmental testing / 50mΩ max.
Insulation resistance	500MΩ min.		
Withstanding voltage	500V AC/minute		
Applicable wire	UL11079, UL3619, UL3855, UL11030 AWG#27·#28 Conductor / 7-strands, tincoated annealed copper Insulation O.D. / 0.65 to 0.73mm (Contact JST for details.)	AWG#30 to #26 Insulation O.D. / 0.6 to 0.8mm	
Applicable PC board thickness	1.6mm	1.6mm	—
Applicable panel thickness	—	—	0.8 to 2.0mm

* Compliant with RoHS.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

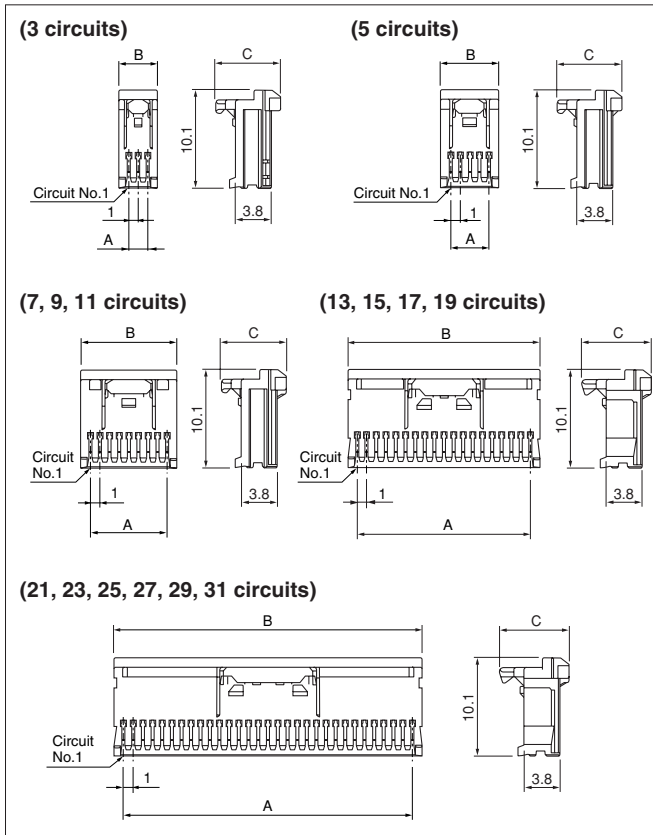
TCS connector



Note: D, E dimensions: Refer to TCS connector (Unit for wire-to-wire connection).

CS FAMILY SERIES / CSR·CSH·CS·TCS CONNECTOR

CSR connector socket



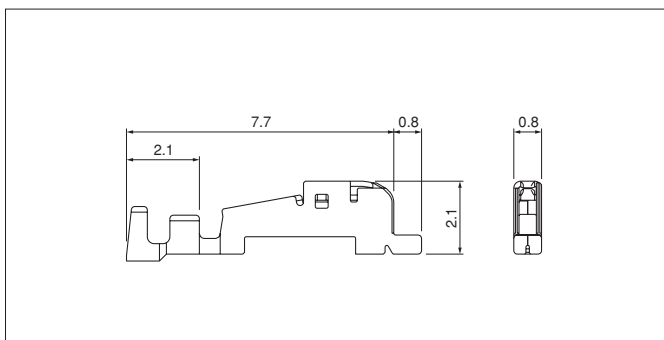
Circuits	Model No.	Dimensions (mm)			Q'ty / box
		A	B	C	
3	03CSR-8PK	2.0	4.0	6.7	13,500
5	05CSR-8PK	4.0	6.0		9,000
7	07CSR-8PK	6.0	8.0		6,660
9	09CSR-8PK	8.0	10.0		5,400
11	11CSR-8PK	10.0	12.0		4,500
13	13CSR-8PK	12.0	14.0	7.2	3,780
15	15CSR-8PK	14.0	16.0		3,240
17	17CSR-8PK	16.0	18.0		2,880
19	19CSR-8PK	18.0	20.0		2,700
21	21CSR-8PK	20.0	22.0		2,340
23	23CSR-8PK	22.0	24.0		2,160
25	25CSR-8PK	24.0	26.0		1,980
27	27CSR-8PK	26.0	28.0		1,800
29	29CSR-8PK	28.0	30.0		1,800
31	31CSR-8PK	30.0	32.0		1,620

Material and Finish

Contact: Copper alloy, tin-plated
Housing: PBT, UL94V-0, pink

RoHS compliance

CSH connector contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SCSH-002T-P0.2N	0.05 to 0.13	30 to 26	0.6 to 0.8	12,000

Material and Finish

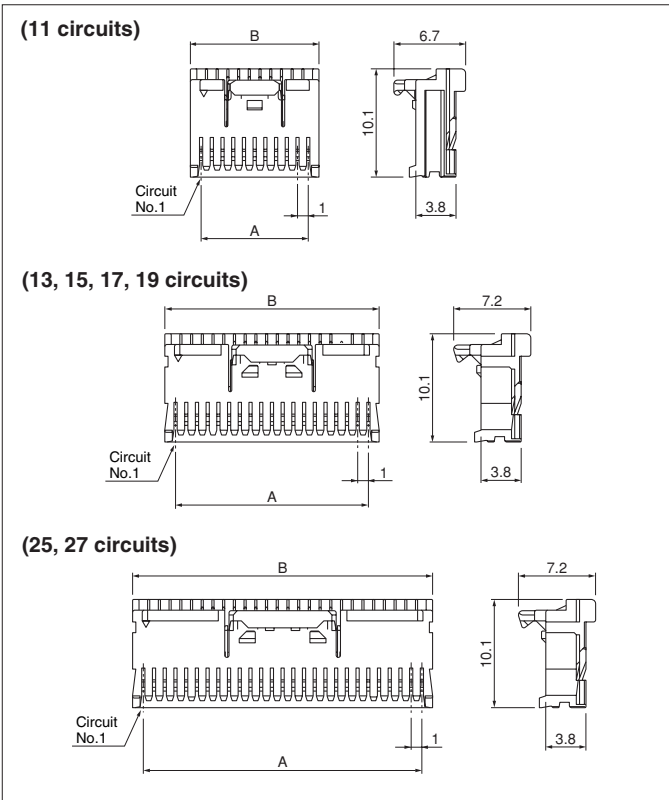
Copper alloy, tin-plated

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SCSH-002T-P0.2N	AP-K2N	MKS-L-10-3	MK/SCSH-002-02	APLMK SCSH002-02
		—	—	—

CS FAMILY SERIES / CSR·CSH·CS·TCS CONNECTOR

CSH connector housing



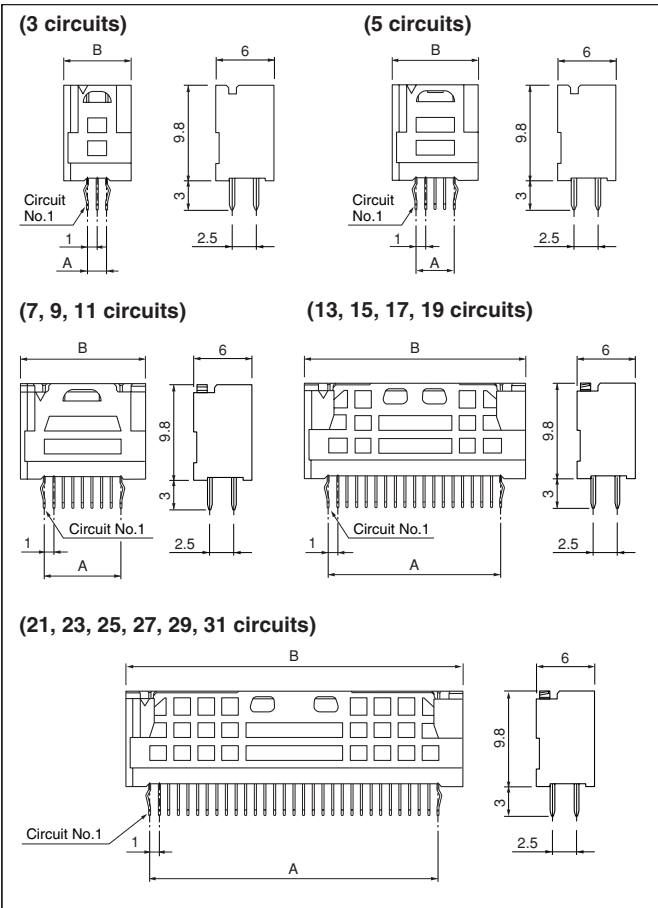
Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
11	CSH-11-PK-N	10.0	12.0	1,000
13	CSH-13-PK-N	12.0	14.0	1,000
15	CSH-15-PK-N	14.0	16.0	1,000
17	CSH-17-PK-N	16.0	18.0	500
19	CSH-19-PK-N	18.0	20.0	500
25	CSH-25-PK-N	24.0	26.0	500
27	CSH-27-PK-N	26.0	28.0	500

Material

Housing: PBT, UL94V-0, pink

RoHS compliance

CS connector through-hole type shrouded header



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
3	B03B-CSRK	2.0	7.0	10,800
5	B05B-CSRK	4.0	9.0	7,920
7	B07B-CSRK	6.0	11.0	6,480
9	B09B-CSRK	8.0	13.0	5,520
11	B11B-CSRK	10.0	15.0	4,800
13	B13B-CSRK	12.0	17.0	4,080
15	B15B-CSRK	14.0	19.0	3,600
17	B17B-CSRK	16.0	21.0	3,360
19	B19B-CSRK	18.0	23.0	3,120
21	B21B-CSRK	20.0	25.0	2,880
23	B23B-CSRK	22.0	27.0	2,640
25	B25B-CSRK	24.0	29.0	2,400
27	B27B-CSRK	26.0	31.0	2,160
29	B29B-CSRK	28.0	33.0	2,160
31	B31B-CSRK	30.0	35.0	1,920

Material and Finish

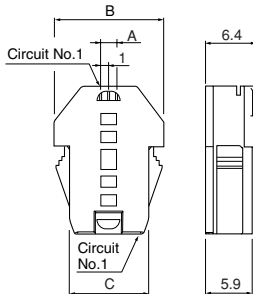
Housing: Glass-filled PA 66, UL94V-0, red
Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

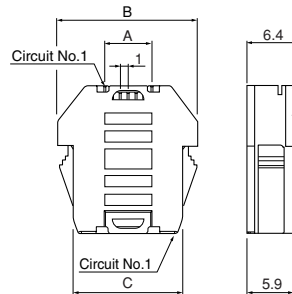
CS FAMILY SERIES / CSR·CSH·CS·TCS CONNECTOR

TCS connector (Unit for wire-to-wire connection)

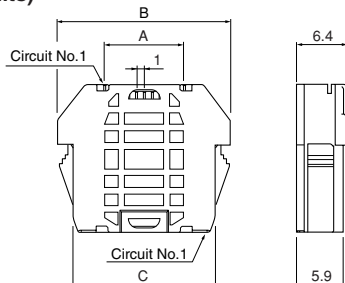
(3 circuits)



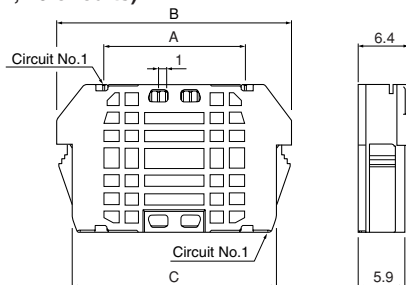
(5, 7 circuits)



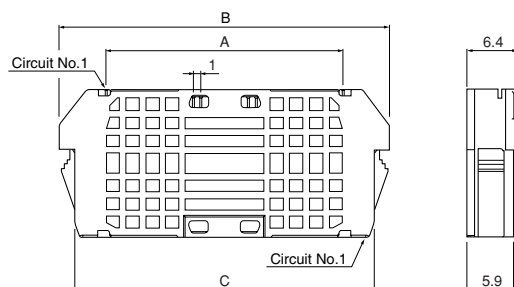
(9, 11 circuits)



(13, 15, 17, 19 circuits)



(21, 23, 25, 27, 29, 31 circuits)



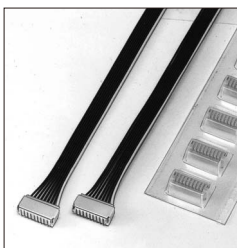
Circuits	Model No.	Dimensions (mm)						Q'ty / box
		A	B	C	D		E	
3	BU03P-TCS-LE	2.0	13.8	10.0	10.7	11.0	6.2	300
5	BU05P-TCS-LE	4.0	15.8	12.0	12.7	13.0	8.2	250
7	BU07P-TCS-LE	6.0	17.8	14.0	14.7	15.0	10.2	250
9	BU09P-TCS-LE	8.0	19.8	16.0	16.7	17.0	12.2	250
11	BU11P-TCS-LE	10.0	21.8	18.0	18.7	19.0	14.2	200
13	BU13P-TCS-LE	12.0	23.8	20.0	20.7	21.0	16.2	200
15	BU15P-TCS-LE	14.0	25.8	22.0	22.7	23.0	18.2	150
17	BU17P-TCS-LE	16.0	27.8	24.0	24.7	25.0	20.2	150
19	BU19P-TCS-LE	18.0	29.8	26.0	26.7	27.0	22.2	150
21	BU21P-TCS-LE	20.0	31.8	28.0	28.7	29.0	24.2	100
23	BU23P-TCS-LE	22.0	33.8	30.0	30.7	31.0	26.2	100
25	BU25P-TCS-LE	24.0	35.8	32.0	32.7	33.0	28.2	100
27	BU27P-TCS-LE	26.0	37.8	34.0	34.7	35.0	30.2	100
29	BU29P-TCS-LE	28.0	39.8	36.0	36.7	37.0	32.2	100
31	BU31P-TCS-LE	30.0	41.8	38.0	38.7	39.0	34.2	100

Material and Finish

Housing: PBT, UL94V-0, light blue

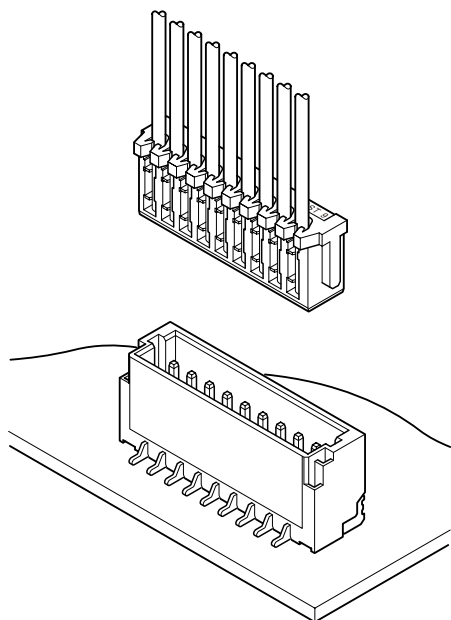
Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.



SR/SZ CONNECTOR

1.0mm pitch/Disconnectable Insulation displacement connectors



- Compact insulation displacement connector
- Header designed for vacuum pick and place robotics
- Twin U-slot insulation displacement section
- 3-point grip construction
- Through-hole type (SZ)

Specifications

- Current rating: 0.7A DC
- Voltage rating: 50V DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/20m Ω max.
After environmental testing/40m Ω max.
- Insulation resistance: 100M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable wire: Conductor size/AWG #30
Conductor/7 strands,
tin-coated annealed copper
Insulation O.D./0.54 to 0.58mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

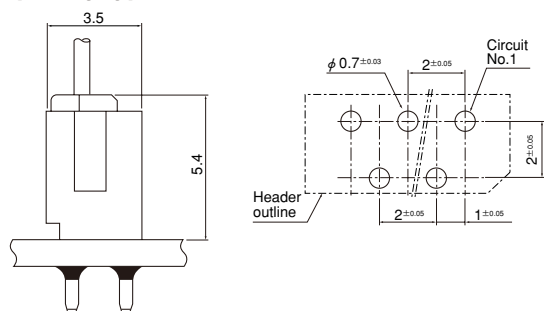
Recognized E60389

Certified LR20812

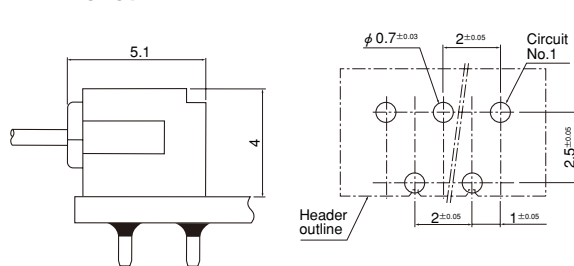
PC board layout (viewed from component side) and Assembly layout

<Through-hole type>

Top entry type

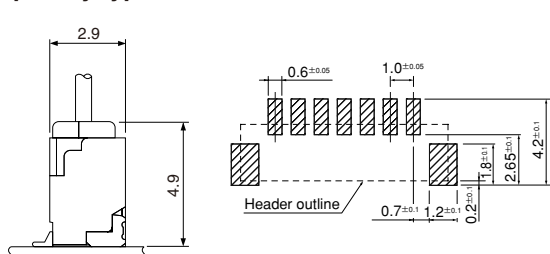


Side entry type

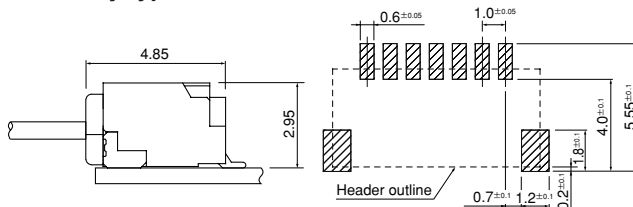


<SMT type>

Top entry type



Side entry type



Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.

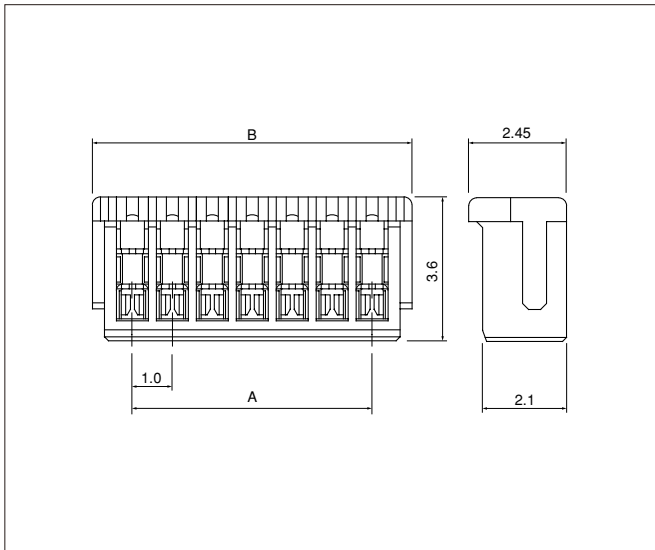
2. Dimensions above should serve as a guideline. Contact JST for details.

3. Hole dimensions differ according to the kind of PC board and piercing method.

4. If using double-sided through-hole PC board, it is necessary to confirm the resistance to the soldering heat on the PC board to be used and the soldering condition. Single sided paper based phenolic resin copper-clad PC board (t1.6) is recommended for a PCB used.

SR/SZ CONNECTOR

Socket



Cir- cuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	02SR-3S	1.0	3.0	2,000
3	03SR-3S	2.0	4.0	2,000
4	04SR-3S	3.0	5.0	2,000
5	05SR-3S	4.0	6.0	2,000
6	06SR-3S	5.0	7.0	2,000
7	07SR-3S	6.0	8.0	2,000
8	08SR-3S	7.0	9.0	2,000
9	09SR-3S	8.0	10.0	2,000
10	10SR-3S	9.0	11.0	2,000
11	11SR-3S	10.0	12.0	2,000
12	12SR-3S	11.0	13.0	2,000
13	13SR-3S	12.0	14.0	2,000
14	14SR-3S	13.0	15.0	2,000

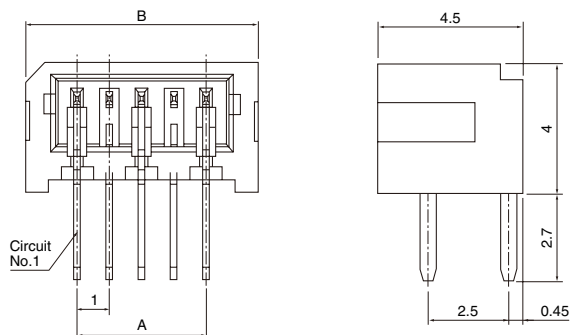
Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: PA, UL94V-0, natural

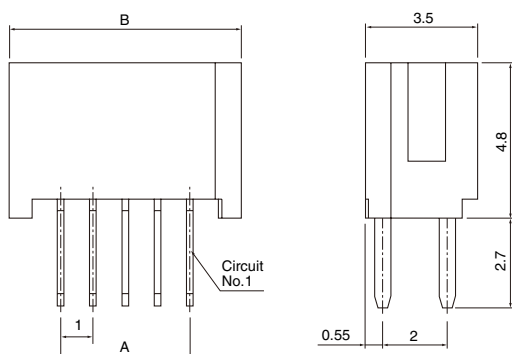
RoHS compliance

Shrouded header (Through-hole type)

Side entry type



Top entry type



Cir- cuits	Model No.		Dimensions (mm)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
3	B03B-SZ	S03B-SZ	2.0	5.2	12,825	9,405
4	B04B-SZ	S04B-SZ	3.0	6.2	10,800	7,920
5	B05B-SZ	S05B-SZ	4.0	7.2	9,225	6,765
6	B06B-SZ	S06B-SZ	5.0	8.2	8,100	5,940
7	B07B-SZ	S07B-SZ	6.0	9.2	7,200	5,280
8	B08B-SZ	—	7.0	10.2	6,525	—
9	B09B-SZ	—	8.0	11.2	5,850	—
11	B11B-SZ	—	10.0	13.2	4,950	—
14	*B14B-SZ	—	13.0	16.2	4,050	—

Material and Finish

Contact: Brass, tin-plated (reflow treatment)
Housing: Glass-filled PBT, UL94V-0, natural (white)

RoHS compliance

Note: *Marked product is not UL approved.

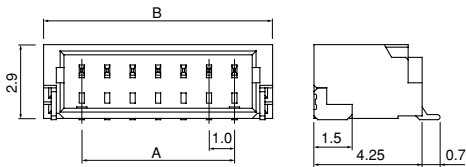
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **S03B-SZLE**
(blank)...natural (white) LE...light blue

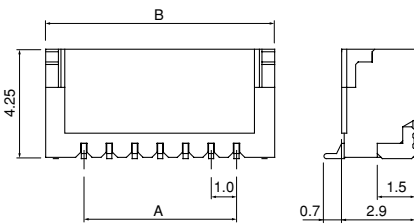
SR/SZ CONNECTOR

Shrouded header (SMT type)

Side entry type



Top entry type



Cir- cuits	Model No.		Dimensions (mm)		Q'ty / reel	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
2	BM02B-SRSS-TB	SM02B-SRSS-TB	1.0	4.0	1,500	3,000
3	BM03B-SRSS-TB	SM03B-SRSS-TB	2.0	5.0	1,500	3,000
4	BM04B-SRSS-TB	SM04B-SRSS-TB	3.0	6.0	1,500	3,000
5	BM05B-SRSS-TB	SM05B-SRSS-TB	4.0	7.0	1,500	3,000
6	BM06B-SRSS-TB	SM06B-SRSS-TB	5.0	8.0	1,500	3,000
7	BM07B-SRSS-TB	SM07B-SRSS-TB	6.0	9.0	1,500	3,000
8	BM08B-SRSS-TB	SM08B-SRSS-TB	7.0	10.0	1,500	3,000
9	BM09B-SRSS-TB	SM09B-SRSS-TB	8.0	11.0	1,500	3,000
10	BM10B-SRSS-TB	SM10B-SRSS-TB	9.0	12.0	1,500	3,000
11	BM11B-SRSS-TB	SM11B-SRSS-TB	10.0	13.0	1,500	3,000
12	BM12B-SRSS-TB	SM12B-SRSS-TB	11.0	14.0	1,500	3,000
13	BM13B-SRSS-TB	SM13B-SRSS-TB	12.0	15.0	1,500	3,000
14	BM14B-SRSS-TB	SM14B-SRSS-TB	13.0	16.0	1,500	3,000

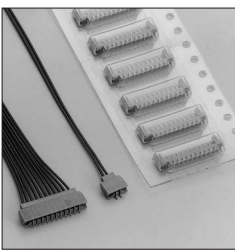
Material and Finish

Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
 Wafer: PA, UL94V-0, natural
 Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

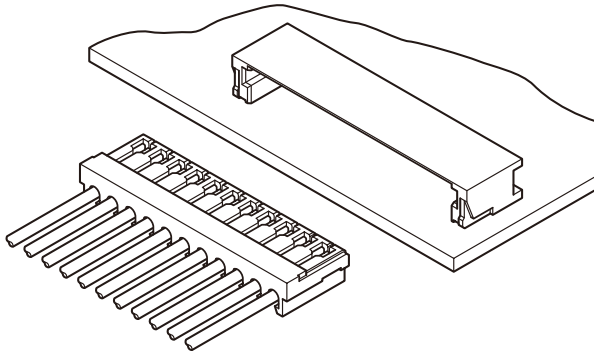
Note: 1. The products listed above are supplied on embossed-tape.

2. Contact JST for the top entry type headers with suction cap.



SSR CONNECTOR

1.0mm pitch/Disconnectable Insulation displacement connectors



- **Compact**
- **Twin U-slot insulation displacement section**
- **3-point grip construction**
- **Header designed for vacuum pick and place robotics**

Specifications

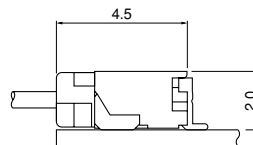
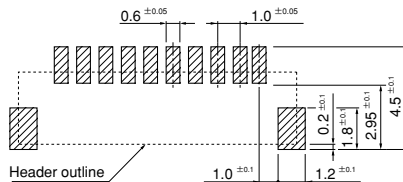
- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/20m Ω max.
After environmental testing/40m Ω max.
- Insulation resistance: 100M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable wire: Conductor size/AWG #32
Conductor/7 strands,
tin-coated annealed copper
Insulation O.D./0.52 to 0.56mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

Recognized E60389

Certified LR20812

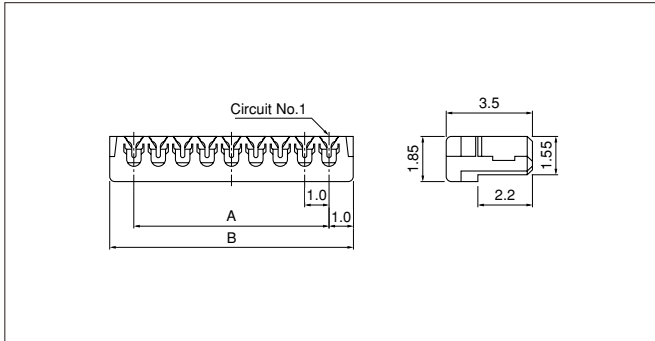
PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ± 0.05 mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

SSR CONNECTOR

Socket



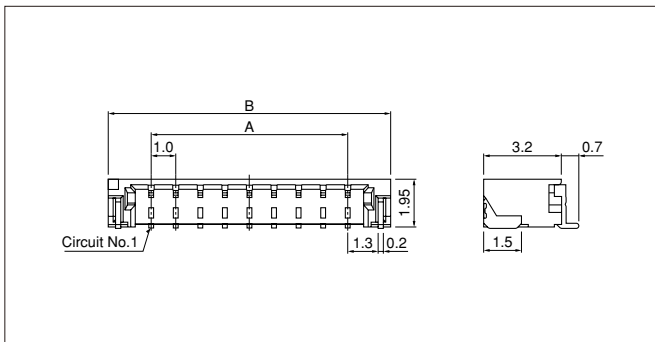
Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	02SSR-32H	1.0	3.0	2,000
3	03SSR-32H	2.0	4.0	2,000
4	04SSR-32H	3.0	5.0	2,000
5	05SSR-32H	4.0	6.0	2,000
6	06SSR-32H	5.0	7.0	2,000
8	08SSR-32H	7.0	9.0	2,000
9	09SSR-32H	8.0	10.0	2,000
10	10SSR-32H	9.0	11.0	2,000
11	11SSR-32H	10.0	12.0	2,000
12	12SSR-32H	11.0	13.0	2,000
13	13SSR-32H	12.0	14.0	2,000
14	14SSR-32H	13.0	15.0	2,000

Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: PA 46, UL94V-0, gray

RoHS compliance

Shrouded header

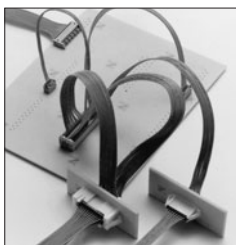


Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
2	SM02B-SSR-H-TB	1.0	4.6	4,500
3	SM03B-SSR-H-TB	2.0	5.6	4,500
4	SM04B-SSR-H-TB	3.0	6.6	4,500
5	SM05B-SSR-H-TB	4.0	7.6	4,500
6	SM06B-SSR-H-TB	5.0	8.6	4,500
8	SM08B-SSR-H-TB	7.0	10.6	4,500
9	SM09B-SSR-H-TB	8.0	11.6	4,500
10	SM10B-SSR-H-TB	9.0	12.6	4,500
11	SM11B-SSR-H-TB	10.0	13.6	4,500
12	SM12B-SSR-H-TB	11.0	14.6	4,500
13	SM13B-SSR-H-TB	12.0	15.6	4,500
14	SM14B-SSR-H-TB	13.0	16.6	4,500

Material and Finish

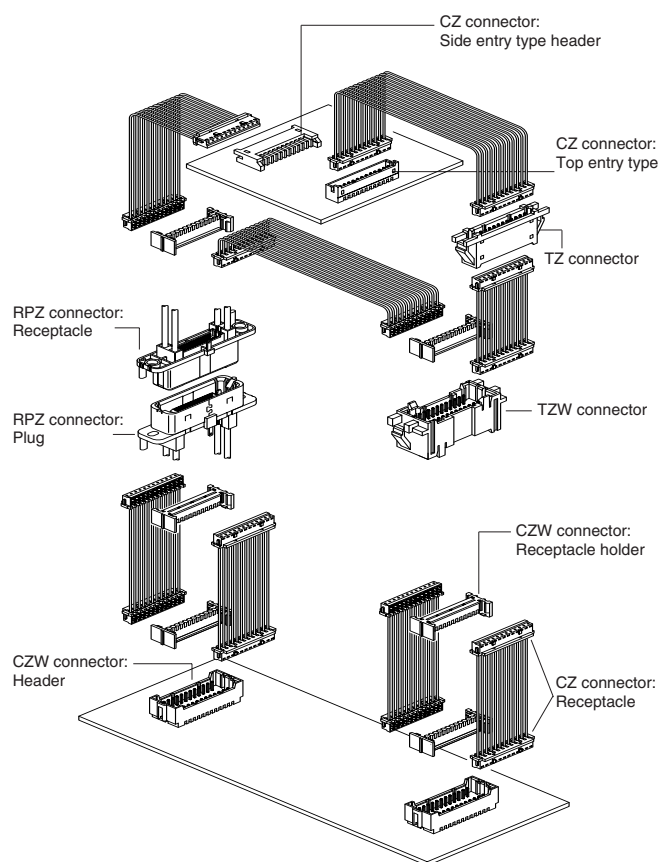
Contact: Copper-alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA, UL94V-0, gray
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.
Note: The products listed above are supplied on embossed-tape.



CZ FAMILY SERIES/CZ·CZW·CZH·CZHW·TZ·TZW

1.5mm pitch/Disconnectable Insulation displacement connectors



※ CZ connector used for the harness shown in the above-mentioned figure can be replaced to CZH connector.

Based upon the 1.5mm pitch CZ connectors, the CZ family connectors have been expanded to meet the requirements of high density packaging. The CZW connector holder allows dual-row wire-to-board connection using the CZ receptacles, while the TZ (single-row) or TZW (dual-row) allows wire-to-wire connection, also using the CZ receptacles.

CZ connector

- Distortion resistant construction
- Compact and low profile

CZW connector

- Low insertion force
- Locking construction

CZH connector

- Housing lance
- Interchangeability

TZ/TZW connector

- The TZ connector is applicable to single-row connection, while the TZW connector is for dual-row connection.
- Applicable to wide range of panel thickness
- The design of the panel lock part does not allow the wires to be caught there before mounting on the panel.

Standards

Recognized E60389

Certified LR20812

Specifications

Item	Series	CZ·CZW connector	CZH·CZHW connector	TZ·TZW connector
Current rating		2A	AC, DC (AWG #26)	
Voltage rating		100V	AC, DC	
Temperature rise		-25°C to +85°C (including temperature rise)		
Contact resistance		Initial value / 10m Ω max. After environmental testing / 20m Ω max.		Initial value / 20m Ω max. After environmental testing / 40m Ω max.
Insulation resistance		500M Ω min		
Withstanding voltage		500V AC/minute		
Applicable wire		UL10272 (Contact JST for other UL style wires.) AWG#28, #26 Conductor / 7-strands, tinned annealed copper Insulation O.D. / 0.7 to 0.83mm	AWG#28 to #26	—
Applicable PC board thickness		1.6mm		—
Applicable panel thickness		—		0.5 to 2mm

* Compliant with RoHS.

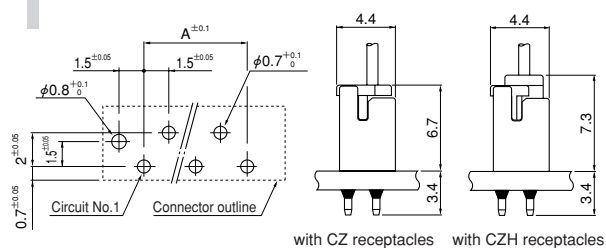
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

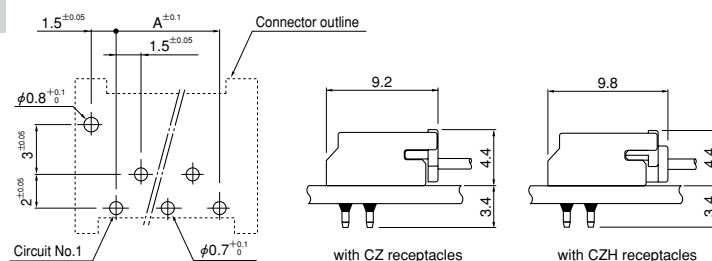
PC board layout (viewed from component side) and Assembly layout

<CZ connector through-hole type>

Top entry type



Side entry type

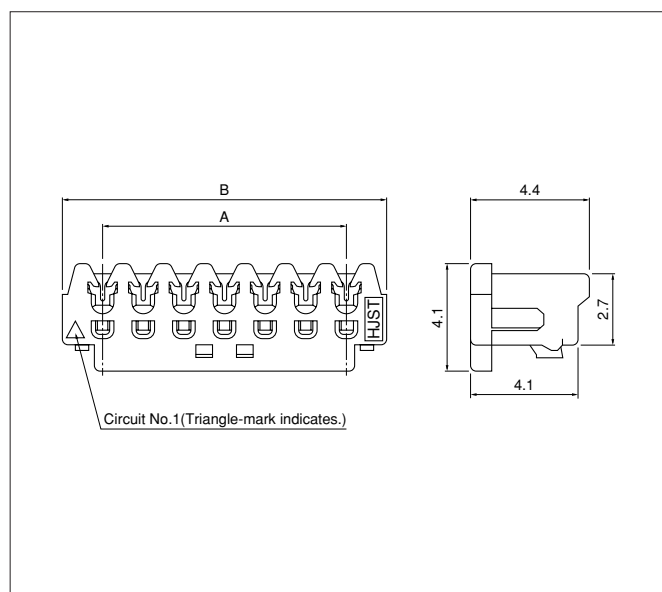


Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

CZ FAMILY SERIES / CZ · CZW · CZH · CZHW · TZ · TZW

CZ connector receptacle



Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Gray	Yellow	A	B	
2	02CZ-6H	02CZ-6Y	1.5	4.5	2,000
3	03CZ-6H	03CZ-6Y	3.0	6.0	2,000
4	04CZ-6H	04CZ-6Y	4.5	7.5	2,000
5	05CZ-6H	05CZ-6Y	6.0	9.0	2,000
6	06CZ-6H	06CZ-6Y	7.5	10.5	2,000
7	07CZ-6H	07CZ-6Y	9.0	12.0	2,000
8	08CZ-6H	08CZ-6Y	10.5	13.5	2,000
9	09CZ-6H	09CZ-6Y	12.0	15.0	1,000
10	10CZ-6H	10CZ-6Y	13.5	16.5	1,000
11	11CZ-6H	11CZ-6Y	15.0	18.0	1,000
12	12CZ-6H	12CZ-6Y	16.5	19.5	1,000
13	13CZ-6H	13CZ-6Y	18.0	21.0	1,000
14	14CZ-6H	14CZ-6Y	19.5	22.5	1,000
15	15CZ-6H	15CZ-6Y	21.0	24.0	1,000
16	16CZ-6H	16CZ-6Y	22.5	25.5	1,000
17	17CZ-6H	17CZ-6Y	24.0	27.0	1,000
18	18CZ-6H	18CZ-6Y	25.5	28.5	1,000
19	19CZ-6H	19CZ-6Y	27.0	30.0	1,000
20	20CZ-6H	20CZ-6Y	28.5	31.5	1,000

Material and Finish

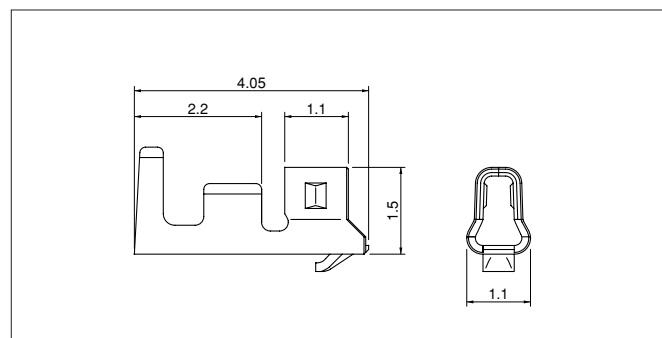
Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: Glass-filled PA 66, UL94V-0

RoHS compliance

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **02CZ-6H**
Y...yellow H...natural (grayish color)

CZH connector contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm²	AWG #		
SCZH-002T-P0.5	0.08~0.13	28~26	0.8~1.1	13,000

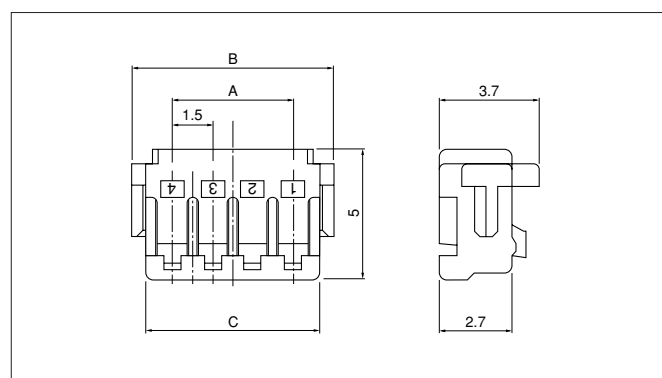
Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SCZH-002T-P0.5	AP-K2N	MKS-L	MK/SCZH-002-05	APLMK SCZH002-05
		—	—	—

CZH connector housing



RoHS compliance

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **CZHR-02V-S**
S...natural (white)
K...black H...gray Y...yellow

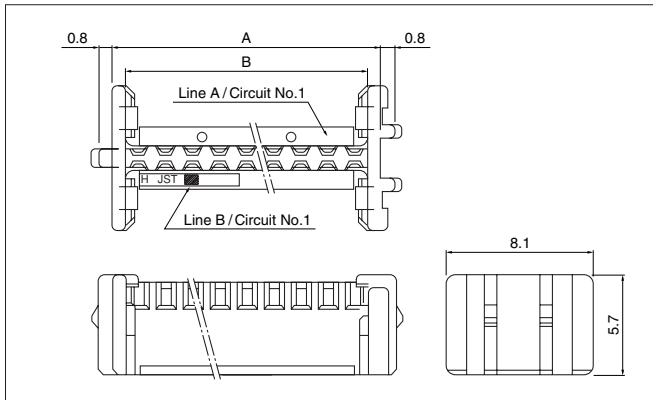
Circuits	Model No.	Dimensions (mm)			Q'ty / box
		A	B	C	
2	CZHR-02V-S	1.5	4.5	3.5	1,000
3	CZHR-03V-S	3.0	6.0	5.0	1,000
4	CZHR-04V-S	4.5	7.5	6.5	1,000
5	CZHR-05V-S	6.0	9.0	8.0	1,000
6	CZHR-06V-S	7.5	10.5	9.5	1,000
7	CZHR-07V-S	9.0	12.0	11.0	1,000
8	CZHR-08V-S	10.5	13.5	12.5	1,000
9	CZHR-09V-S	12.0	15.0	14.0	1,000
10	CZHR-10V-S	13.5	16.5	15.5	1,000
11	CZHR-11V-S	15.0	18.0	17.0	1,000
12	CZHR-12V-S	16.5	19.5	18.5	1,000
13	CZHR-13V-S	18.0	21.0	20.0	1,000
14	CZHR-14V-S	19.5	22.5	21.5	1,000
15	CZHR-15V-S	21.0	24.0	23.0	1,000
16	CZHR-16V-S	22.5	25.5	24.5	1,000
17	CZHR-17V-S	24.0	27.0	26.0	1,000
19	CZHR-19V-S	27.0	30.0	29.0	1,000
20	CZHR-20V-S	28.5	31.5	30.5	1,000

Material

PBT, UL94V-0, natural (white)

CZ FAMILY SERIES / CZ · CZW · CZH · CZHW · TZ · TZW

CZW connector holder



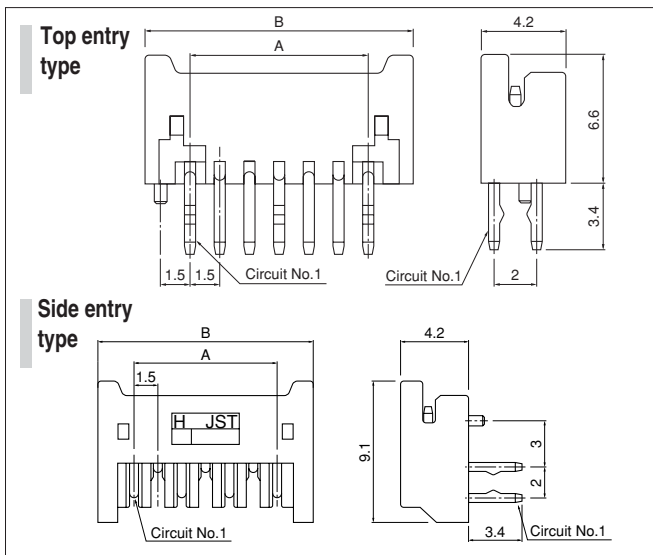
Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
16	CZWH-16-S	14.9	13.5	1,000
18	CZWH-18-S	16.4	15.0	1,000
20	CZWH-20-S	17.9	16.5	1,000
22	CZWH-22-S	19.4	18.0	1,000
24	CZWH-24-S	20.9	19.5	1,000
26	CZWH-26-S	22.4	21.0	1,000
28	CZWH-28-S	23.9	22.5	1,000
30	CZWH-30-S	25.4	24.0	1,000
32	CZWH-32-S	26.9	25.5	1,000
34	CZWH-34-S	28.4	27.0	1,000
36	CZWH-36-S	29.9	28.5	1,000
38	CZWH-38-S	31.4	30.0	1,000
40	CZWH-40-S	32.9	31.5	1,000

Material

PBT, UL94V-0, natural (white)

RoHS compliance

CZ connector through-hole type shrouded header



<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **B02B-CZHK-B-1** H...natural (grayish color) Y...yellow K...black

Circuits	Model No.		Dimensions (mm)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
2	B02B-CZHK-B-1	S02B-CZHK-B-1	1.5	6.0	2,072	1,480
3	B03B-CZHK-B-1	S03B-CZHK-B-1	3.0	7.5	1,624	1,160
4	B04B-CZHK-B-1	S04B-CZHK-B-1	4.5	9.0	1,344	960
5	B05B-CZHK-B-1	S05B-CZHK-B-1	6.0	10.5	1,176	840
6	B06B-CZHK-B-1	S06B-CZHK-B-1	7.5	12.0	1,008	720
7	B07B-CZHK-B-1	S07B-CZHK-B-1	9.0	13.5	896	640
8	B08B-CZHK-B-1	S08B-CZHK-B-1	10.5	15.0	784	560
9	B09B-CZHK-B-1	S09B-CZHK-B-1	12.0	16.5	728	520
10	B10B-CZHK-B-1	S10B-CZHK-B-1	13.5	18.0	672	480
11	B11B-CZHK-B-1	S11B-CZHK-B-1	15.0	19.5	616	440
12	B12B-CZHK-B-1	S12B-CZHK-B-1	16.5	21.0	560	400
13	B13B-CZHK-B-1	S13B-CZHK-B-1	18.0	22.5	504	360
14	B14B-CZHK-B-1	S14B-CZHK-B-1	19.5	24.0	504	360
15	B15B-CZHK-B-1	S15B-CZHK-B-1	21.0	25.5	448	320
16	B16B-CZHK-B-1	S16B-CZHK-B-1	22.5	27.0	448	320
17	B17B-CZHK-B-1	S17B-CZHK-B-1	24.0	28.5	392	280
18	B18B-CZHK-B-1	S18B-CZHK-B-1	25.5	30.0	392	280
19	B19B-CZHK-B-1	S19B-CZHK-B-1	27.0	31.5	392	280
20	B20B-CZHK-B-1	S20B-CZHK-B-1	28.5	33.0	336	240

Material and Finish

Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

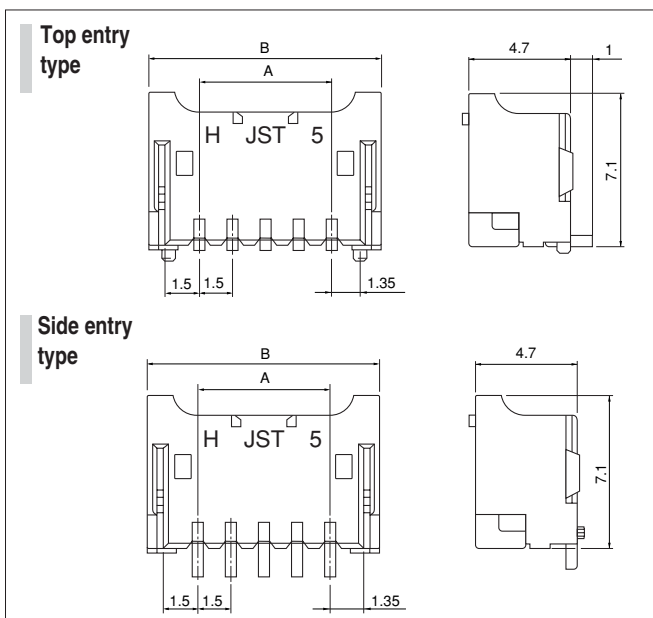
Wafer: Glass-filled PA 66, UL94V-0, natural (grayish color)

Note: Models B()B-CZHK-B are the headers without the boss.

Note: Models S()B-CZHK-B are the headers without the boss.

RoHS compliance This product displays (LF)(SN) on a label.

CZ connector SMT type shrouded header



Circuits	Model No.		Dimensions (mm)		Q'ty / reel	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
2	BM02B-CZSS-1-TF	SM02B-CZSS-1-TB	1.5	6.0	800	1,250
4	BM04B-CZSS-1-TF	SM04B-CZSS-1-TB	4.5	9.0	800	1,250
5	BM05B-CZSS-1-TF	SM05B-CZSS-1-TB	6.0	10.5	800	1,250
6	BM06B-CZSS-1-TF	—	7.5	12.0	800	—
8	BM08B-CZSS-1-TF	—	10.5	15.0	800	—
10	BM10B-CZSS-1-TF	SM10B-CZSS-1-TB	13.5	18.0	800	1,250
13	BM13B-CZSS-1-TF	SM13B-CZSS-1-TB	18.0	22.5	800	1,250
14	BM14B-CZSS-1-TF	—	19.5	24.0	800	—
15	BM15B-CZSS-1-TF	—	21.0	25.5	800	—
16	BM16B-CZSS-1-TF	SM16B-CZSS-1-TB	22.5	27.0	800	1,250
17	BM17B-CZSS-1-TF	—	24.0	28.5	800	—
20	BM20B-CZSS-1-TF	—	28.5	33.0	800	—

Material and Finish

Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Wafer: PA, UL94V-0, natural (ivory)

Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Note: Models BM()B-CZSS-TF are the headers without the boss.

Note: Models SM()B-CZSS-TB are the headers without the boss.

RoHS compliance This product displays (LF)(SN) on a label.

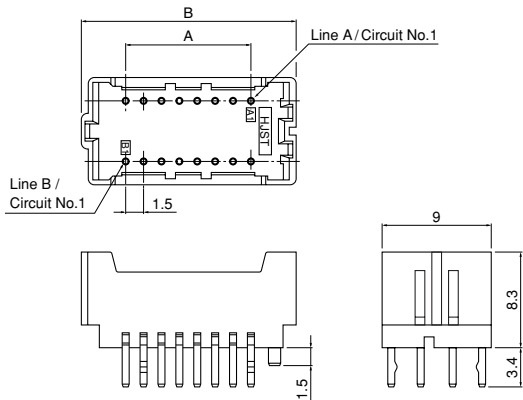
<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **B02B-CZSS-1-TF** S...natural (ivory) H...gray

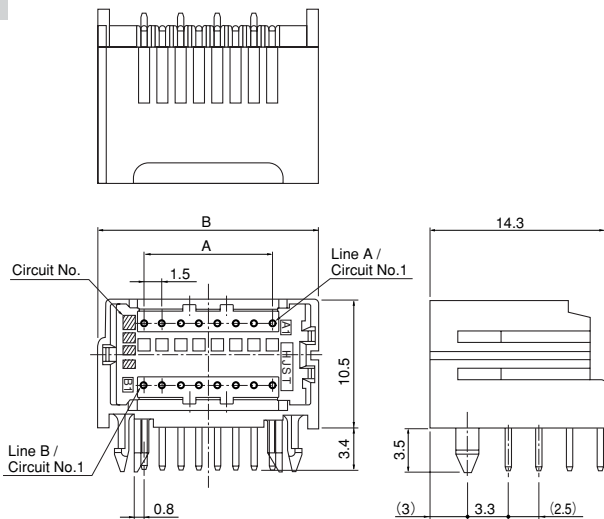
CZ FAMILY SERIES / CZ・CZW・CZH・CZHW・TZ・TZW

CZW connector through-hole type shrouded header

Top entry type



Side entry type



Circuits	Model No.		Dimensions (mm)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
16	B16B-CZWHK-B-1	—	10.5	18.0	420	—
18	B18B-CZWHK-B-1	—	12.0	19.5	385	—
20	B20B-CZWHK-B-1	S20B-CZWHS-B-1	13.5	21.0	350	280
22	B22B-CZWHK-B-1	—	15.0	22.5	315	—
24	B24B-CZWHK-B-1	—	16.5	24.0	315	—
26	B26B-CZWHK-B-1	S26B-CZWHS-B-1	18.0	25.5	280	224
28	B28B-CZWHK-B-1	—	19.5	27.0	280	—
30	B30B-CZWHK-B-1	—	21.0	28.5	245	—
32	B32B-CZWHK-B-1	—	22.5	30.0	245	—
34	B34B-CZWHK-B-1	—	24.0	31.5	245	—
36	B36B-CZWHK-B-1	—	25.5	33.0	210	—
38	B38B-CZWHK-B-1	—	27.0	34.5	210	—
40	B40B-CZWHK-B-1	S40B-CZWHS-B-1	28.5	36.0	210	168

Material and Finish

Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PA 66, UL94V-0, natural (grayish color)
Note: Models B()B-CZW~~H~~K-B are the headers without the boss.

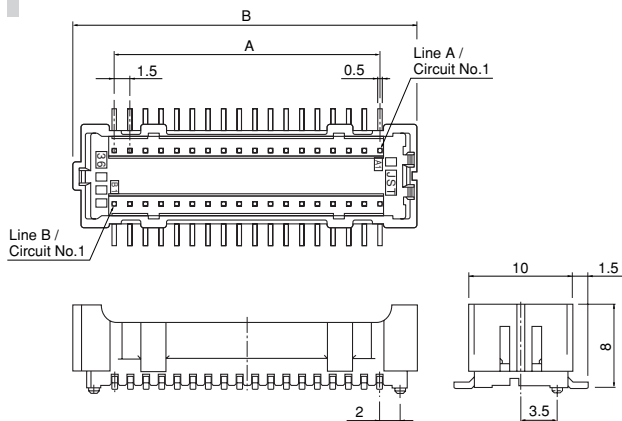
RoHS compliance This product displays (LF)(SN) on a label.

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **B16B-CZW~~H~~K-B-1**
H...natural (grayish color)
Y...yellow

CZW connector SMT type shrouded header

Top entry type



Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
36	BM36B-CZWSS-1-TF	25.5	33.0	300
40	BM40B-CZWSS-1-TF	28.5	36.0	300

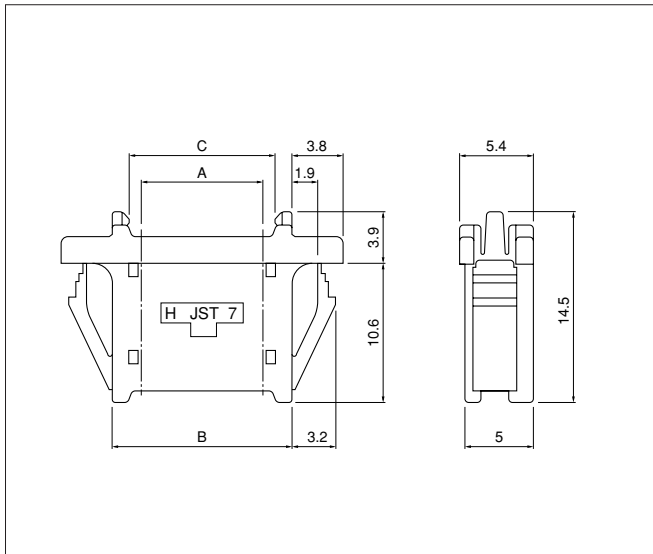
Material and Finish

Press pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA, UL94V-0, natural (ivory)
Note: Models BM()B-CZW~~S~~S-TF are the headers without the boss.

RoHS compliance This product displays (LF)(SN) on a label.

CZ FAMILY SERIES / CZ • CZW • CZH • CZHW • TZ • TZW

TZ connector (Unit for wire-to-wire connection)



Circuits	Model No.	Dimensions (mm)					Qty / box
		A	B	C	D	E	
2	BU02P-TZ-S	1.5	5.9	3.5	6.3	9.9	500
3	BU03P-TZ-S	3.0	7.4	5.0	7.8	11.4	500
4	BU04P-TZ-S	4.5	8.9	6.5	9.3	12.9	500
5	BU05P-TZ-S	6.0	10.4	8.0	10.8	14.4	500
6	BU06P-TZ-S	7.5	11.9	9.5	12.3	15.9	250
7	BU07P-TZ-S	9.0	13.4	11.0	13.8	17.4	250
8	BU08P-TZ-S	10.5	14.9	12.5	15.3	18.9	250
9	BU09P-TZ-S	12.0	16.4	14.0	16.8	20.4	250
10	BU10P-TZ-S	13.5	17.9	15.5	18.3	21.9	250
11	BU11P-TZ-S	15.0	19.4	17.0	19.8	23.4	250
12	BU12P-TZ-S	16.5	20.9	18.5	21.3	24.9	250
13	BU13P-TZ-S	18.0	22.4	20.0	22.8	26.4	250
14	BU14P-TZ-S	19.5	23.9	21.5	24.3	27.9	250
15	BU15P-TZ-S	21.0	25.4	23.0	25.8	29.4	250
16	BU16P-TZ-S	22.5	26.9	24.5	27.3	30.9	250
17	BU17P-TZ-S	24.0	28.4	26.0	28.8	32.4	250
18	BU18P-TZ-S	25.5	29.9	27.5	30.3	33.9	150
19	BU19P-TZ-S	27.0	31.4	29.0	31.8	35.4	150
20	BU20P-TZ-S	28.5	32.9	30.5	33.3	36.9	100

Material and Finish

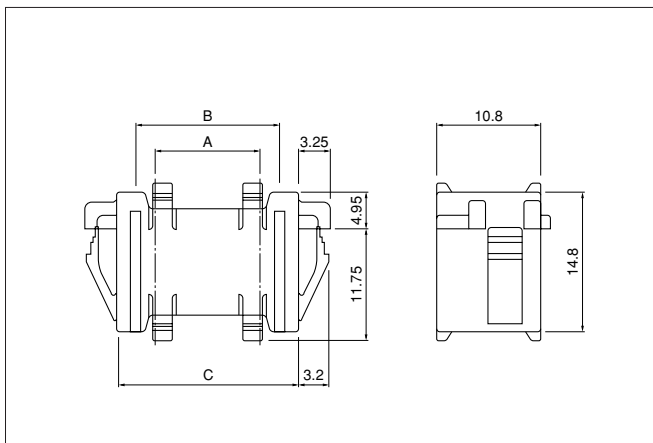
Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Housing: PA 66, UL94V-0, natural (white)

RoHS compliance This product displays (LF)(SN) on a label.

Note: D and E dimensions; Refer to the panel layout of TZ connector (P2).

TZW connector (Dual-row unit for wire-to-wire connection)



Circuits	Model No.	Dimensions (mm)					Qty / box
		A	B	C	D	E	
16	BU16P-TZW-S	10.5	15.0	19.0	19.4	23.0	160
18	BU18P-TZW-S	12.0	16.5	20.5	20.9	24.5	140
20	BU20P-TZW-S	13.5	18.0	22.0	22.4	26.0	140
22	BU22P-TZW-S	15.0	19.5	23.5	23.9	27.5	140
24	BU24P-TZW-S	16.5	21.0	25.0	25.4	29.0	120
26	BU26P-TZW-S	18.0	22.5	26.5	26.9	30.5	120
28	BU28P-TZW-S	19.5	24.0	28.0	28.4	32.0	120
30	BU30P-TZW-S	21.0	25.5	29.5	29.9	33.5	100
32	BU32P-TZW-S	22.5	27.0	31.0	31.4	35.0	100
34	BU34P-TZW-S	24.0	28.5	32.5	32.9	36.5	100
36	BU36P-TZW-S	25.5	30.0	34.0	34.4	38.0	100
38	BU38P-TZW-S	27.0	31.5	35.5	35.9	39.5	100
40	BU40P-TZW-S	28.5	33.0	37.0	37.4	41.0	80

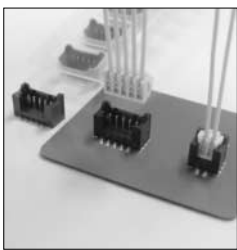
Material and Finish

Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Housing: PA 66, UL94V-0, natural (white)

RoHS compliance This product displays (LF)(SN) on a label.

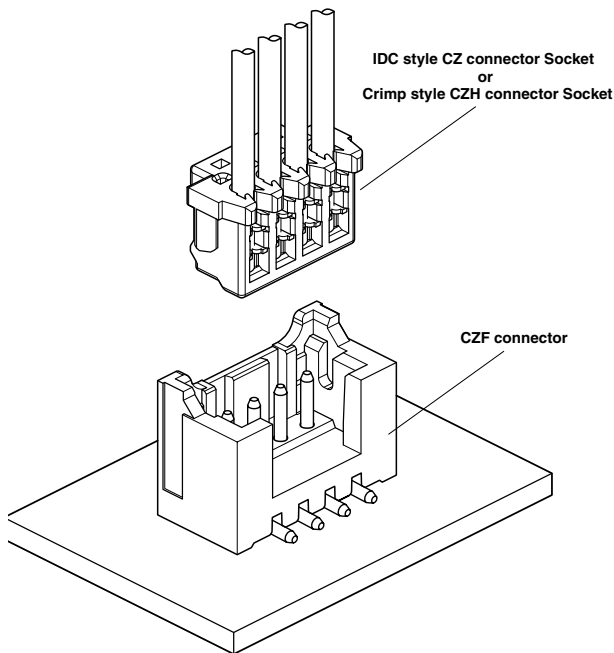
Note: D and E dimensions; Refer to the panel layout of TZW connector (P2).



CZF CONNECTOR



1.5mm pitch/Disconnectable Insulation displacement and Crimp style connectors



The SMT top entry type headers that can be mated with the 1.5mm pitch CZ connector socket are on the lineup.

- Suction tape is not required because the flat area for picking up is provided to the connector.
- This header can be accommodated to both the crimp style and the insulation displacement (ID) style sockets.

Specifications

	CZF / CZ connectors	CZF / CZH connectors
Current rating	2 A AC, DC (AWG #26)	
Voltage rating	100V AC, DC	
Temperature rise	-25°C to +85°C (including temperature rise in applying electrical current)	
Contact resistance	Initial value / 10 mΩ max. After environmental tests / 20 mΩ max.	
Insulation resistance	500 MΩ min.	
Withstanding voltage	500 VAC/minute	
Applicable wire	UL10272 (Contact JST for other UL style wires.) AWG #28, # 26 Conductor / 7-strands, tincoated annealed copper Insulation O.D. / 0.7 to 0.83 mm	AWG #28 to # 26

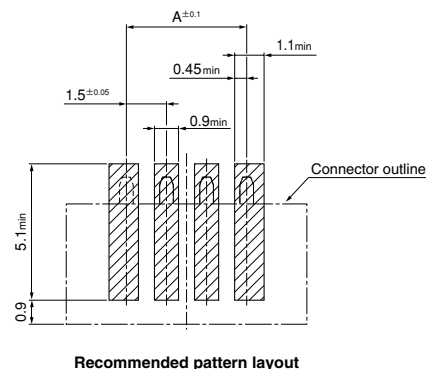
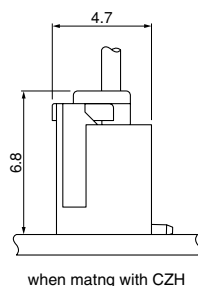
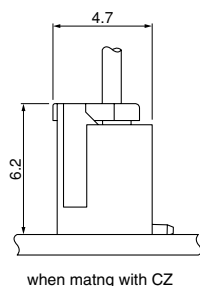
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

* Compliant with RoHS.

Standards

Recognized E60389

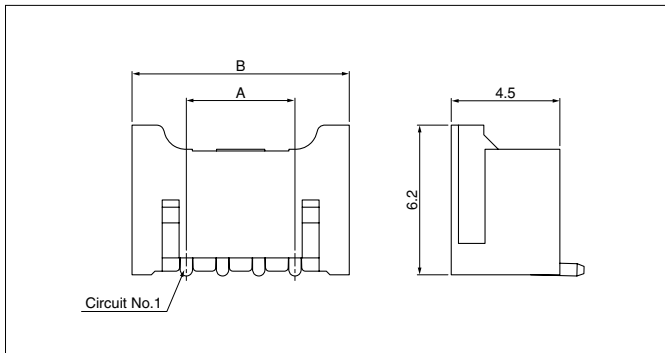


Note: 1. The above figure is the figure viewed from the connector mounting side.

2. Tolerances are non-cumulative: ± 0.05 mm for all centers. The dimensions above should serve as a guideline. Contact JST for details.

CZF CONNECTOR

CZF connector SMT type header



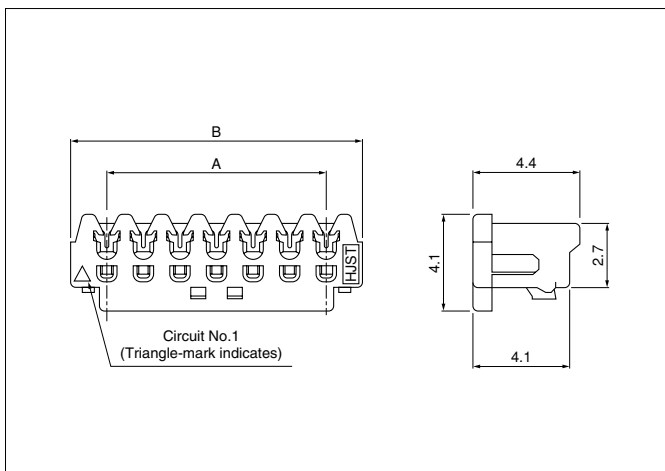
Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
2	BM02B-CZFKS-TF	1.5	6.0	1,150
3	BM03B-CZFKS-TF	3.0	7.5	1,150
4	BM04B-CZFKS-TF	4.5	9.0	1,150
5	BM05B-CZFKS-TF	6.0	10.5	1,150
6	BM06B-CZFKS-TF	7.5	12.0	1,150
8	BM08B-CZFKS-TF	10.5	15.0	1,150

Material and Finish

Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Polyamide, UL94V-0, black

RoHS compliance This product displays (LF)(SN) on a label.

CZ connector socket



Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Gray	Yellow	A	B	
2	02CZ-6H	02CZ-6Y	1.5	4.5	2,000
3	03CZ-6H	03CZ-6Y	3.0	6.0	2,000
4	04CZ-6H	04CZ-6Y	4.5	7.5	2,000
5	05CZ-6H	05CZ-6Y	6.0	9.0	2,000
6	06CZ-6H	06CZ-6Y	7.5	10.5	2,000
8	08CZ-6H	08CZ-6Y	10.5	13.5	2,000

Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: Glass-filled PA 66, UL94V-0

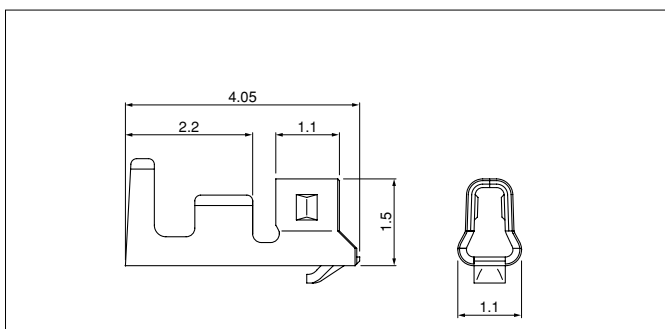
RoHS compliance

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **02CZ-6H**

Y...yellow H...natural (grayish color)

CZH connector contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SCZH-002T-P0.5	0.08~0.13	28~26	0.8~1.1	13,000

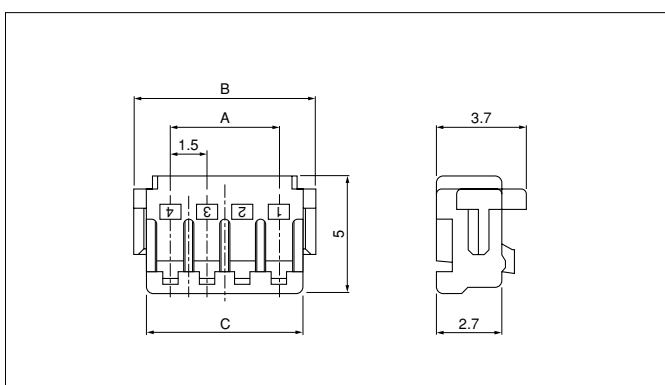
Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SCZH-002T-P0.5	AP-K2N	MKS-L	MK/SCZH-002-05	APLMK SCZH002-05

CZH connector housing



Circuits	Model No.	Dimensions (mm)			Q'ty / box
		A	B	C	
2	CZHR-02V-S	1.5	4.5	3.5	1,000
3	CZHR-03V-S	3.0	6.0	5.0	1,000
4	CZHR-04V-S	4.5	7.5	6.5	1,000
5	CZHR-05V-S	6.0	9.0	8.0	1,000
6	CZHR-06V-S	7.5	10.5	9.5	1,000
8	CZHR-08V-S	10.5	13.5	12.5	1,000

Material

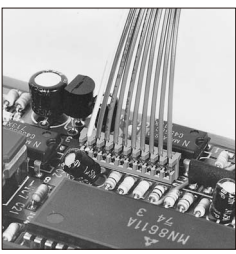
PBT, UL94V-0, natural (white)

RoHS compliance

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

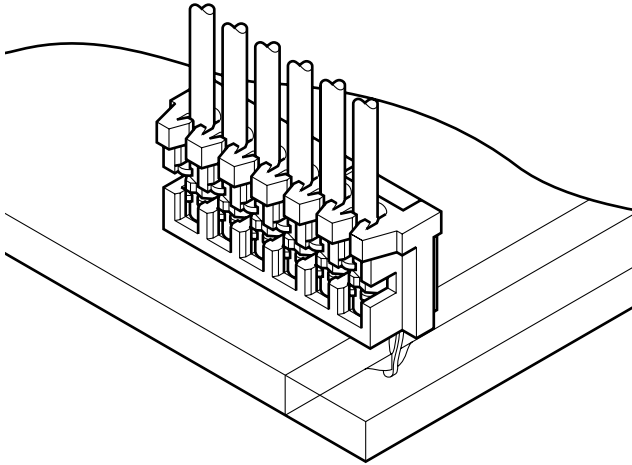
ex. **CZHR-02V-S**

S...natural (white) K...black H...gray Y...yellow



ZA CONNECTOR

1.5mm pitch/Board-in Insulation displacement connectors



This newly designed insulation displacement board-in connector features twin slots provided at the insulation displacement section. This is the most important section of the insulation displacement connector contact, and has an insulation barrel located between the twin slots. The insulation barrel firmly grips and secures the wire during insulation displacement connection to protect the insulation displacement section from possible damage. Due to significant increases in connection reliability, insulation displacement connection has become possible with this 1.5mm pitch board-in connector.

- Compact, direct mounting 1.5mm pitch insulation displacement board-in connector
- Twin-slot insulation displacement section
- Insulation barrel construction
- 3-point grip construction

Specifications

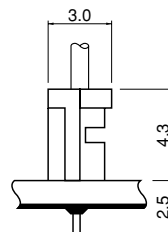
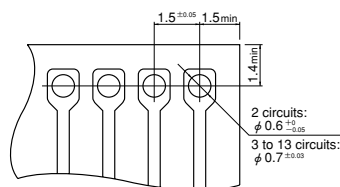
- Current rating: 0.7A AC, DC (AWG #28)
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable wire: UL1571(Contact JST for details regarding other UL styles.)
AWG #30, #28
(Contact JST if AWG #30 wire is to be used.)
Conductor/7 strands, tin-coated
Insulation O.D./0.7 to 0.8mm
(Contact JST for diameters greater than 0.8mm)
- Applicable PC board thickness: 0.6 to 1.2mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

Recognized E60389

Certified LR20812

PC board layout (viewed from soldering side) and Assembly layout

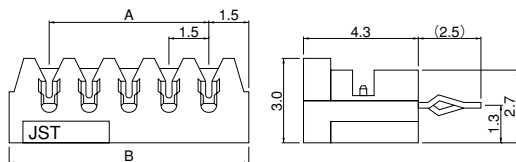


Note: 1. Tolerances are non-cumulative: ± 0.05 mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline.
Contact JST for details.

3. Pulling or otherwise putting a strain on the harness attached to the connector before the solder has completely cooled can dislodge the connector or cause its misalignment.
4. Do not reuse connectors that were previously soldered and then removed from a PC board.

ZA CONNECTOR

Connector



Circuits	Model No.		Dimensions (mm)		Q'ty / box
	AWG #30(natural/gray)	AWG #28(green)	A	B	
2	02ZA-3H	02ZA-8M	1.5	4.5	2,000
3	03ZA-3H	03ZA-8M	3.0	6.0	2,000
4	04ZA-3H	04ZA-8M	4.5	7.5	2,000
5	05ZA-3H	05ZA-8M	6.0	9.0	2,000
6	06ZA-3H	06ZA-8M	7.5	10.5	2,000
7	07ZA-3H	07ZA-8M	9.0	12.0	1,000
8	08ZA-3H	08ZA-8M	10.5	13.5	1,000
9	09ZA-3H	09ZA-8M	12.0	15.0	1,000
10	10ZA-3H	10ZA-8M	13.5	16.5	1,000
11	11ZA-3H	11ZA-8M	15.0	18.0	1,000
12	12ZA-3H	12ZA-8M	16.5	19.5	1,000
13	13ZA-3H	13ZA-8M	18.0	21.0	500

Material and Finish

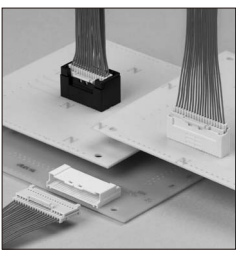
Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Housing: Glass-filled PA 66, UL94V-0

RoHS compliance This product displays (LF)(SN) on a label.

Note: Contact JST if AWG #30 wire is to be used.

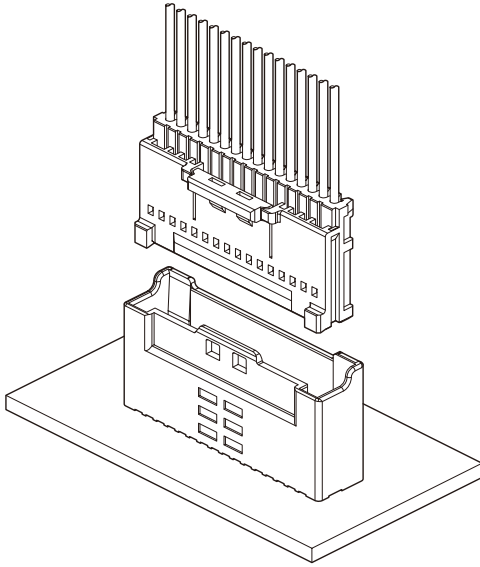
<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **02ZA-3H**
H...gray [standard color for AWG#30]
M...green [standard color for AWG#28]



ZF/ZFW CONNECTOR

1.5mm pitch/Disconnectable Insulation displacement connectors



This is a 1.5mm pitch secure lock type board-to-wire/insulation displacement connector for the first time in the industry, having the bearing force to unusual external force.

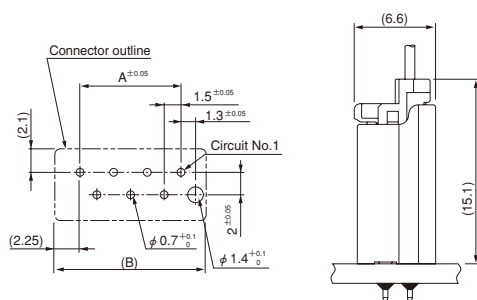
- Twin U-slot insulation displacement section
- Superior operability (Low insertion force)
- Strain relief
- Secure locking structure

Specifications

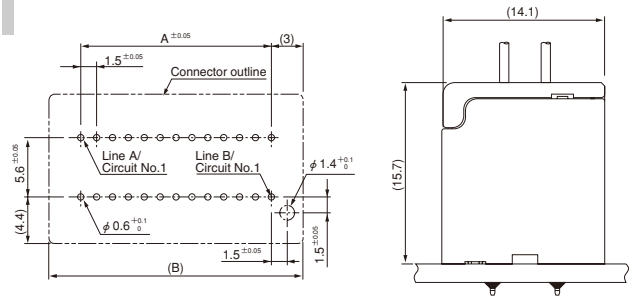
- Current rating: 0.7A AC, DC (AWG#28)
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/20m Ω max.
After environmental testing/40m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable wire: Conductor size/UL10272 AWG#28
Insulation O.D./0.78mm
- Applicable PC board thickness: 1.6mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

PC board layout (viewed from component side) and Assembly layout

Top entry type

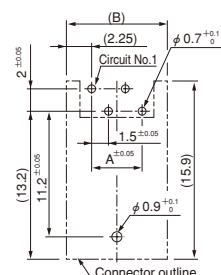


Double-row type

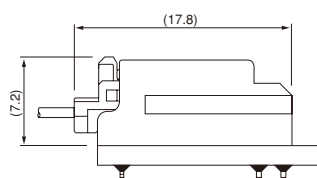
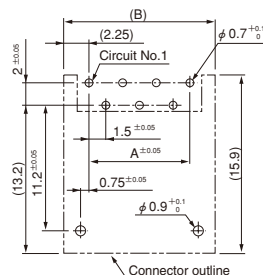


Side entry type

〈2 to 5 circuits〉



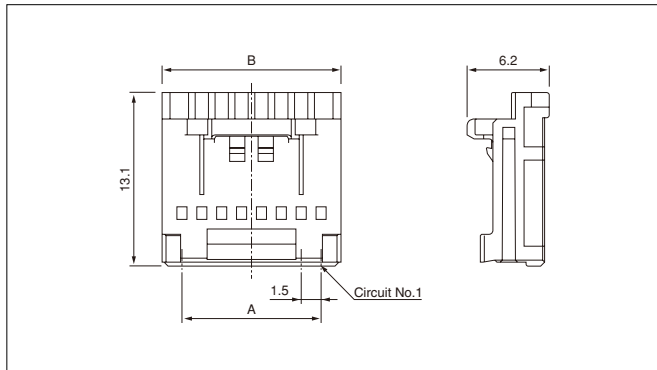
〈6 to 20 circuits〉



Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method.
The dimensions above should serve as a guideline. Contact JST for details.

ZF/ZFW CONNECTOR

Socket



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	02ZF-6S-P	—	4.5	1,000
3	03ZF-6S-P	3.0	6.0	1,000
4	04ZF-6S-P	4.5	7.5	500
5	05ZF-6S-P	6.0	9.0	500
6	06ZF-6S-P	7.5	10.5	500
7	07ZF-6S-P	9.0	12.0	500
8	08ZF-6S-P	10.5	13.5	500
9	09ZF-6S-P	12.0	15.0	500
10	10ZF-6S-P	13.5	16.5	500
11	11ZF-6S-P	15.0	18.0	250
12	12ZF-6S-P	16.5	19.5	250
13	13ZF-6S-P	18.0	21.0	250
14	14ZF-6S-P	19.5	22.5	250
15	15ZF-6S-P	21.0	24.0	250
16	16ZF-6S-P	22.5	25.5	250
17	17ZF-6S-P	24.0	27.0	250
18	18ZF-6S-P	25.5	28.5	250
19	19ZF-6S-P	27.0	30.0	200
20	20ZF-6S-P	28.5	31.5	200

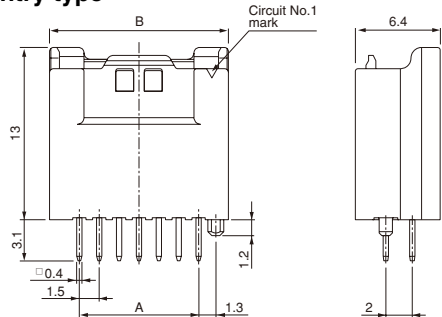
Material and Finish

Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Housing: Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance

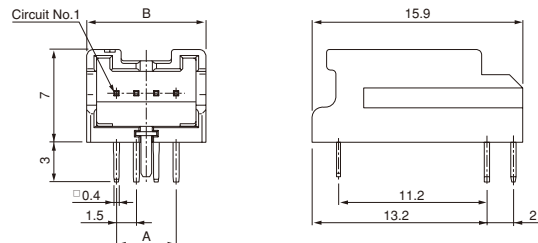
ZF connector shrouded header

Top entry type

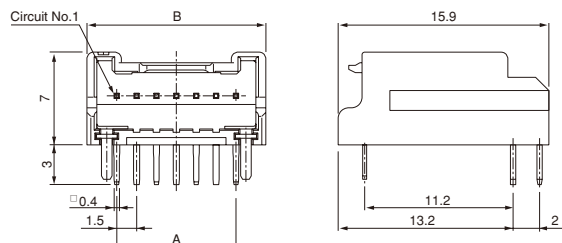


Side entry type

<2 to 5 circuits>



<6 to 20 circuits>



Circuits	Model No.		Dimensions (mm)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
2	B02B-ZFSS-1	S02B-ZFSS-2	—	6.0	8,400	4,800
3	B03B-ZFSS-1	S03B-ZFSS-2	3.0	7.5	6,720	3,840
4	B04B-ZFSS-1	S04B-ZFSS-2	4.5	9.0	5,544	3,168
5	B05B-ZFSS-1	S05B-ZFSS-2	6.0	10.5	4,704	2,688
6	B06B-ZFSS-1	S06B-ZFSS-2	7.5	12.0	4,200	2,400
7	B07B-ZFSS-1	S07B-ZFSS-2	9.0	13.5	3,696	2,112
8	B08B-ZFSS-1	S08B-ZFSS-2	10.5	15.0	3,360	1,920
9	B09B-ZFSS-1	S09B-ZFSS-2	12.0	16.5	3,024	1,728
10	B10B-ZFSS-1	S10B-ZFSS-2	13.5	18.0	2,688	1,536
11	B11B-ZFSS-1	S11B-ZFSS-2	15.0	19.5	2,520	1,440
12	B12B-ZFSS-1	S12B-ZFSS-2	16.5	21.0	2,352	1,344
13	B13B-ZFSS-1	S13B-ZFSS-2	18.0	22.5	2,184	1,248
14	B14B-ZFSS-1	S14B-ZFSS-2	19.5	24.0	2,016	1,152
15	B15B-ZFSS-1	S15B-ZFSS-2	21.0	25.5	1,848	1,056
16	B16B-ZFSS-1	S16B-ZFSS-2	22.5	27.0	1,848	1,056
17	B17B-ZFSS-1	S17B-ZFSS-2	24.0	28.5	1,680	960
18	B18B-ZFSS-1	S18B-ZFSS-2	25.5	30.0	1,680	960
19	B19B-ZFSS-1	S19B-ZFSS-2	27.0	31.5	1,512	864
20	B20B-ZFSS-1	S20B-ZFSS-2	28.5	33.0	1,512	864

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PA 66, UL94V-0, natural (ivory)
Reinforcement: Copper alloy, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

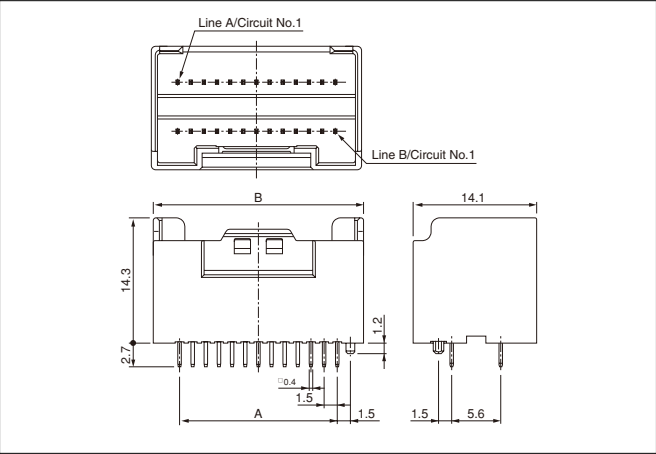
<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **B02B-ZFSS-1**

S...natural (ivory) K...black R...red E...blue MG...moss green

ZF/ZFW CONNECTOR

ZFW connector Double-row shrouded header

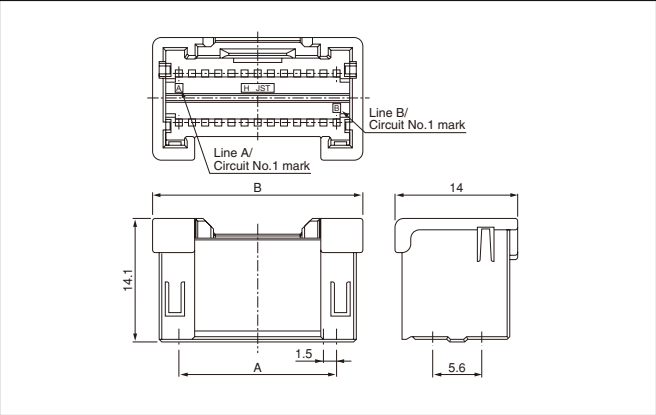


Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
18	B18B-ZFWKS-1	12.0	18.0	1,008
22	B22B-ZFWKS-1	15.0	21.0	882
26	B26B-ZFWKS-1	18.0	24.0	756
30	B30B-ZFWKS-1	21.0	27.0	693
34	B34B-ZFWKS-1	24.0	30.0	630
38	B38B-ZFWKS-1	27.0	33.0	567
40	B40B-ZFWKS-1	28.5	34.5	504

Material and Finish	
Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)	
Wafer: Glass-filled PA 66, UL94V-0, black	

RoHS compliance This product displays (LF)(SN) on a label.

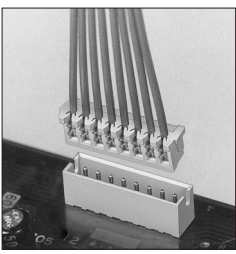
ZFW connector holder



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
18	ZFWH-18-K	12.0	18.0	300
22	ZFWH-22-K	15.0	21.0	300
26	ZFWH-26-K	18.0	24.0	250
30	ZFWH-30-K	21.0	27.0	150
34	ZFWH-34-K	24.0	30.0	150
38	ZFWH-38-K	27.0	33.0	100
40	ZFWH-40-K	28.5	34.5	100

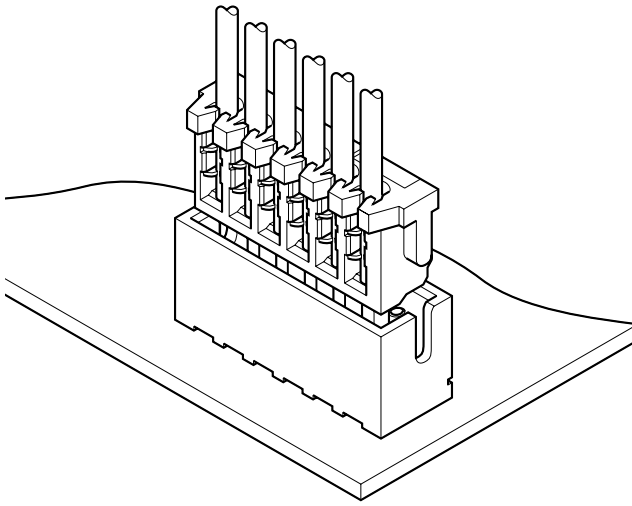
Material	
PBT, UL94V-0, black	

RoHS compliance



ZR CONNECTOR

1.5mm pitch/Disconnectable Insulation displacement connectors



The twin U-slots (IDC slots), the 3-point insulation grip, and the distortion resistant disconnectable construction ensure a reliable connection even during severe environmental conditions.

- Compact
- Twin U-slot insulation displacement section
- 3-point grip construction
- Distortion resistant construction
- Compatible with the ZH crimp style connector

Specifications

- Current rating: 0.7A AC, DC (AWG #28)
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/20m Ω max.
After environmental testing/30m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable wire: UL1571(Contact JST for details regarding other UL styles.)
AWG #30, #28
Conductor/7 strands, tin-coated
Insulation O.D./0.7 to 0.8mm
(Contact JST for diameters greater than 0.8mm.)
- Applicable PC board thickness: 0.6 to 1.2mm, 1.6mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

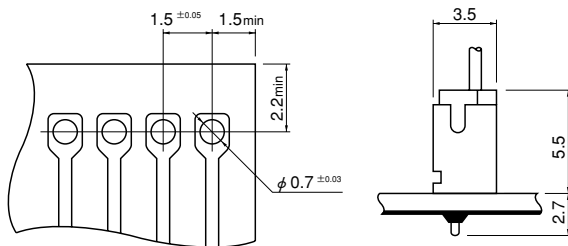
Standards

Recognized E60389

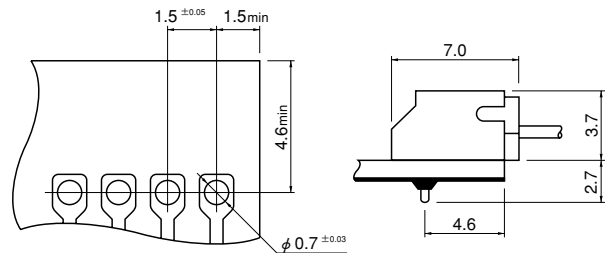
Certified LR20812

Through-hole type PC board layout (viewed from soldering side) and Assembly layout

Top entry type



Side entry type

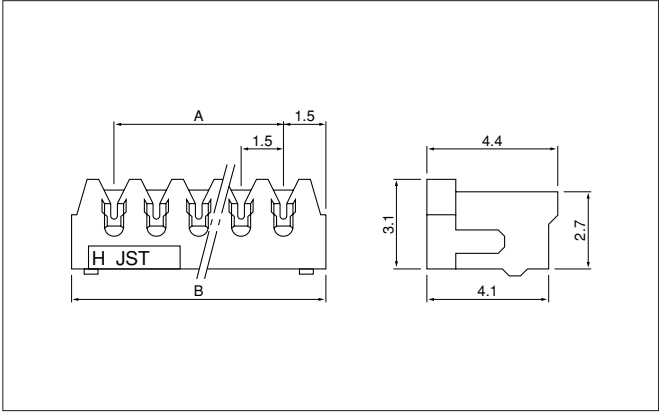


Note: 1. Tolerances are non-cumulative: ± 0.05 mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

3. As for the PC board layout for the SMT type shrouded headers, refer to that of the ZH connector.

Socket



Circuits	Model No.		Dimensions (mm)		Q'ty / box
	AWG #30(natural/gray)	AWG #28(green)	A	B	
2	02ZR-3H-P	02ZR-8M-P	1.5	4.5	2,000
3	03ZR-3H-P	03ZR-8M-P	3.0	6.0	2,000
4	04ZR-3H-P	04ZR-8M-P	4.5	7.5	2,000
5	05ZR-3H-P	05ZR-8M-P	6.0	9.0	2,000
6	06ZR-3H-P	06ZR-8M-P	7.5	10.5	2,000
7	07ZR-3H-P	07ZR-8M-P	9.0	12.0	2,000
8	08ZR-3H-P	08ZR-8M-P	10.5	13.5	2,000
9	09ZR-3H-P	09ZR-8M-P	12.0	15.0	2,000
10	10ZR-3H-P	10ZR-8M-P	13.5	16.5	2,000
11	11ZR-3H-P	11ZR-8M-P	15.0	18.0	2,000
12	12ZR-3H-P	12ZR-8M-P	16.5	19.5	2,000
13	13ZR-3H-P	13ZR-8M-P	18.0	21.0	2,000

Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: Glass-filled PA 66, UL94V-0

RoHS compliance

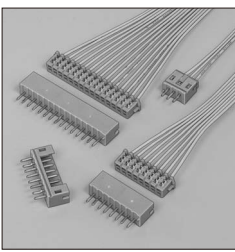
Note: Not TÜV approved.

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **02ZR-3H-P**
standard color AWG#30: H...gray
AWG#28: M...green
K...black R...red E...blue

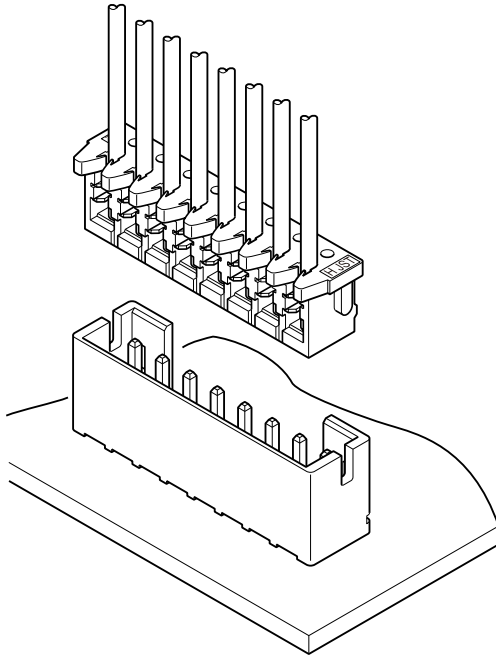
Shrouded header

The shrouded headers are interchangeable with those of the ZH crimp style connectors.



CK CONNECTOR

2.0mm pitch/Disconnectable Insulation displacement connectors



Multi-harness of CK connector (2.0mm) and CZ connector (1.5mm) combination has been realized. The in-line type IDC features low profile design with 6.9mm mounting height and 4.8mm thickness (top entry type).

- UL10272 wire is applicable
- Folded beam double-leaf contact construction
- Twin U-slot insulation displacement section
- Strain relief

Specifications

- Current rating: 2A AC, DC (AWG #26)
- Voltage rating: 100V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: UL1061, UL10272(Contact JST for details regarding other UL styles.)
AWG #28, #26
Conductor/tin-plated annealed copper strands
Insulation O.D./0.75 to 1.05mm
- Applicable PC board thickness: 0.8 to 1.6mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

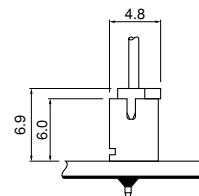
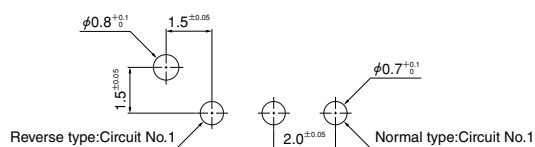
Standards

Recognized E60389

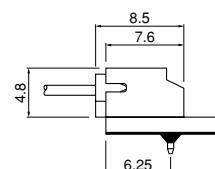
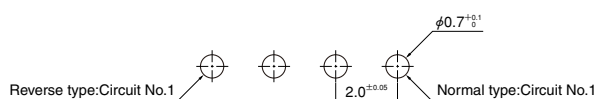
Certified LR20812

PC board layout (viewed from component side) and Assembly layout

Top entry type



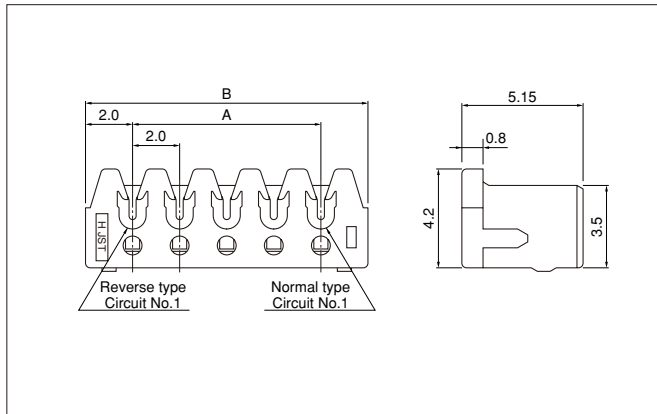
Side entry type



Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Socket



Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Normal type	Reverse type	A	B	
2	02CK-6H-P	02CK-6H-PC	2.0	6.0	2,000
3	03CK-6H-P	03CK-6H-PC	4.0	8.0	2,000
4	04CK-6H-P	04CK-6H-PC	6.0	10.0	2,000
5	05CK-6H-P	05CK-6H-PC	8.0	12.0	2,000
6	06CK-6H-P	06CK-6H-PC	10.0	14.0	2,000
7	07CK-6H-P	07CK-6H-PC	12.0	16.0	1,000
8	08CK-6H-P	08CK-6H-PC	14.0	18.0	1,000
9	09CK-6H-P	09CK-6H-PC	16.0	20.0	1,000
10	10CK-6H-P	10CK-6H-PC	18.0	22.0	1,000
11	11CK-6H-P	11CK-6H-PC	20.0	24.0	1,000
12	12CK-6H-P	12CK-6H-PC	22.0	26.0	1,000
13	13CK-6H-P	13CK-6H-PC	24.0	28.0	500
14	14CK-6H-P	14CK-6H-PC	26.0	30.0	500
15	15CK-6H-P	15CK-6H-PC	28.0	32.0	500

Material and Finish

Contact: Copper alloy, tin-plated (reflow treatment)
Housing: Glass-filled PA 66

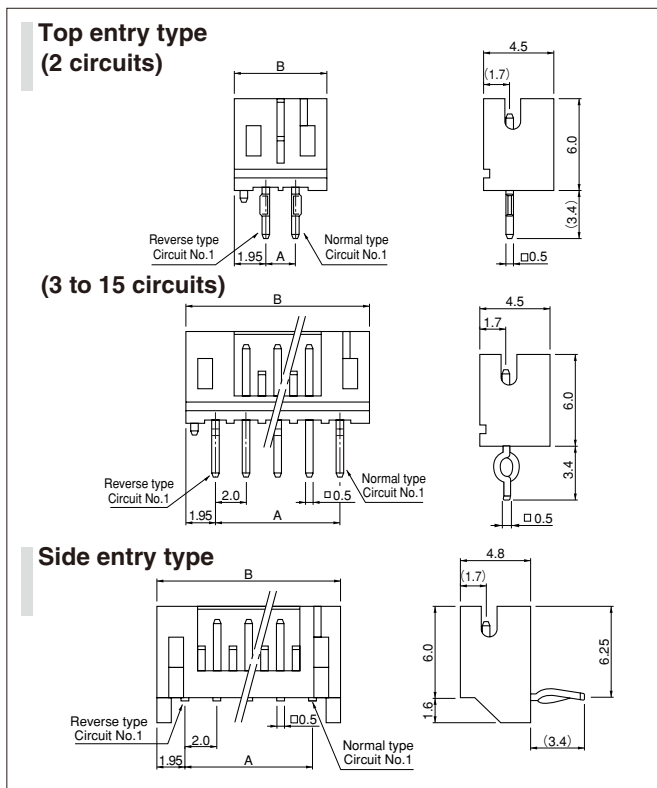
RoHS compliance

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **02CK-6H-P**

H...gray Y...yellow R...red N...brown

Single-row shrouded header (Through-hole type)



Circuits	Model No.				Dimensions (mm)		Q'ty / box	
	Normal type		Reverse type		A	B	Top entry type	Side entry type
	Top entry type (with a boss)	Side entry type	Top entry type (with a boss)	Side entry type				
2	B2B-PH-KBL-H	S2B-PH-KL	B2B-PH-KBLC-H	S2B-PH-KLC-H	2.0	5.9	1,000	1,000
3	B3B-PH-KBL-H	S3B-PH-KL	B3B-PH-KBLC-H	S3B-PH-KLC-H	4.0	7.9	1,000	1,000
4	B4B-PH-KBL-H	S4B-PH-KL	B4B-PH-KBLC-H	S4B-PH-KLC-H	6.0	9.9	1,000	500
5	B5B-PH-KBL-H	S5B-PH-KL	B5B-PH-KBLC-H	S5B-PH-KLC-H	8.0	11.9	1,000	500
6	B6B-PH-KBL-H	S6B-PH-KL	B6B-PH-KBLC-H	S6B-PH-KLC-H	10.0	13.9	1,000	500
7	B7B-PH-KBL-H	S7B-PH-KL	B7B-PH-KBLC-H	S7B-PH-KLC-H	12.0	15.9	500	500
8	B8B-PH-KBL-H	S8B-PH-KL	B8B-PH-KBLC-H	S8B-PH-KLC-H	14.0	17.9	500	250
9	B9B-PH-KBL-H	S9B-PH-KL	B9B-PH-KBLC-H	S9B-PH-KLC-H	16.0	19.9	500	250
10	B10B-PH-KBL-H	S10B-PH-KL	B10B-PH-KBLC-H	S10B-PH-KLC-H	18.0	21.9	500	250
11	B11B-PH-KBL-H	S11B-PH-KL	B11B-PH-KBLC-H	S11B-PH-KLC-H	20.0	23.9	500	250
12	B12B-PH-KBL-H	S12B-PH-KL	B12B-PH-KBLC-H	S12B-PH-KLC-H	22.0	25.9	500	250
13	B13B-PH-KBL-H	S13B-PH-KL	B13B-PH-KBLC-H	S13B-PH-KLC-H	24.0	27.9	250	250
14	B14B-PH-KBL-H	S14B-PH-KL	B14B-PH-KBLC-H	S14B-PH-KLC-H	26.0	29.9	250	200
15	B15B-PH-KBL-H	S15B-PH-KL	B15B-PH-KBLC-H	S15B-PH-KLC-H	28.0	31.9	250	200

Material and Finish

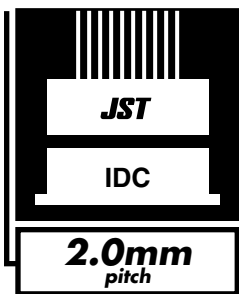
Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0, gray

RoHS compliance This product displays (LF)(SN) on a label.
Note: Top entry type headers without bosses are also available.

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

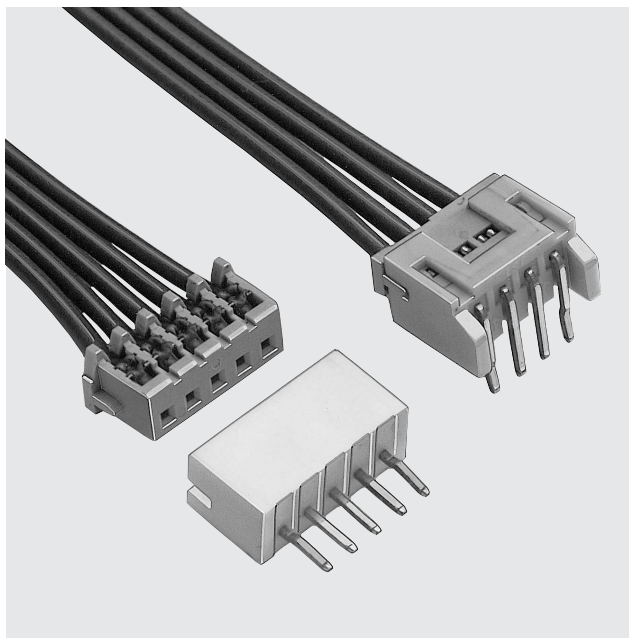
ex. **B2B-PH-KBLC-H**

H...gray Y...yellow R...red N...brown
(blank)...gray (normal side entry type only)

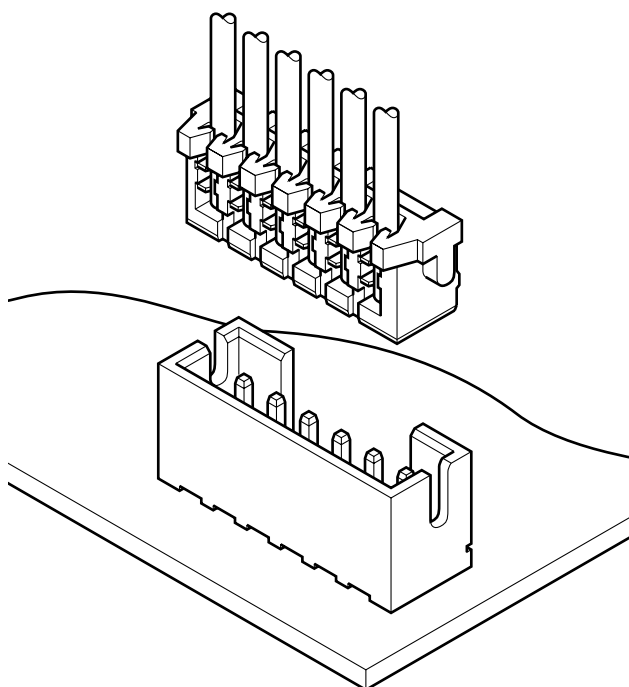


CR CONNECTOR

Disconnectable Insulation displacement connectors



The CR 2.0mm insulation displacement connector features a mounting height as low as 6.9mm and a thickness as thin as 4.8mm (for top entry type). It's suitable for interconnection of UL1007 electric wires in a wide range of electrical and electronic equipment such as VCRs and video cameras.



Features

• **Designed for connection of UL1007 wires**

The 2.0mm pitch insulation displacement connector allows automatic harness production for connection of UL1007 wires.

• **Folded beam double-leaf contact construction**

The contact springs are folded to increase their effective strength. This design provides a safety margin that allows the contacts to endure the distortion of misinsertion without being permanently distorted.

• **Twin U-slot insulation displacement section**

The insulation displacement section connected to the wire consists of twin U-slot for high reliability.

• **Strain relief**

The strain relief feature prevents stress caused by vibration, impact or bending from effecting the insulation displacement connection. This is accomplished by holding the outside of the wire with the insulation gripping device on the housing. To protect circuit integrity from vibration and undue tension, ample clearance is provided between the insulation displacement connection and the strain relief.

• **Interchangeability**

The shrouded headers of the top and side entry type CR connectors are interchangeable with the KR and KRD insulation displacement and PH crimp style connectors.

Specifications

- Current rating: 1.0A AC, DC
- Voltage rating: 100V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: UL1007 (Contact JST for details regarding other UL wires.)
AWG #26
Conductor/7 strands, tin-coated
Insulation O.D./1.3mm max.
- Applicable PC board thickness: 0.8 to 1.6mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

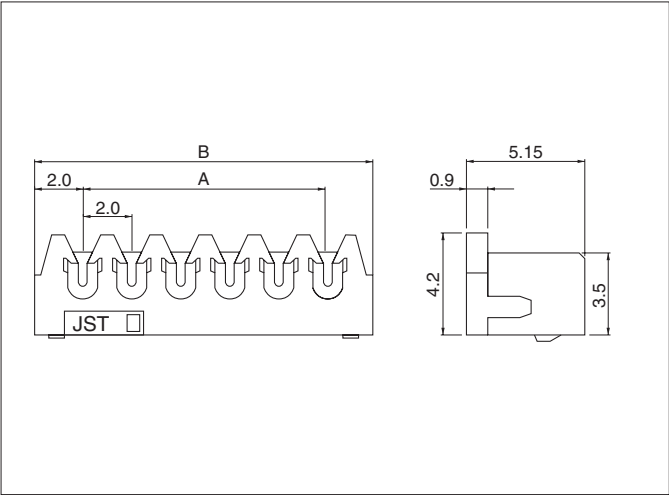
Standards

Recognized E60389

Certified LR20812

CR CONNECTOR

Receptacle



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	02CR-6H-P	2.0	6.0	2,000
3	03CR-6H-P	4.0	8.0	2,000
4	04CR-6H-P	6.0	10.0	2,000
5	05CR-6H-P	8.0	12.0	2,000
6	06CR-6H-P	10.0	14.0	2,000
7	07CR-6H-P	12.0	16.0	2,000
8	08CR-6H-P	14.0	18.0	1,000
9	09CR-6H-P	16.0	20.0	1,000
10	10CR-6H-P	18.0	22.0	1,000
11	11CR-6H-P	20.0	24.0	1,000
12	12CR-6H-P	22.0	26.0	1,000

Material and Finish

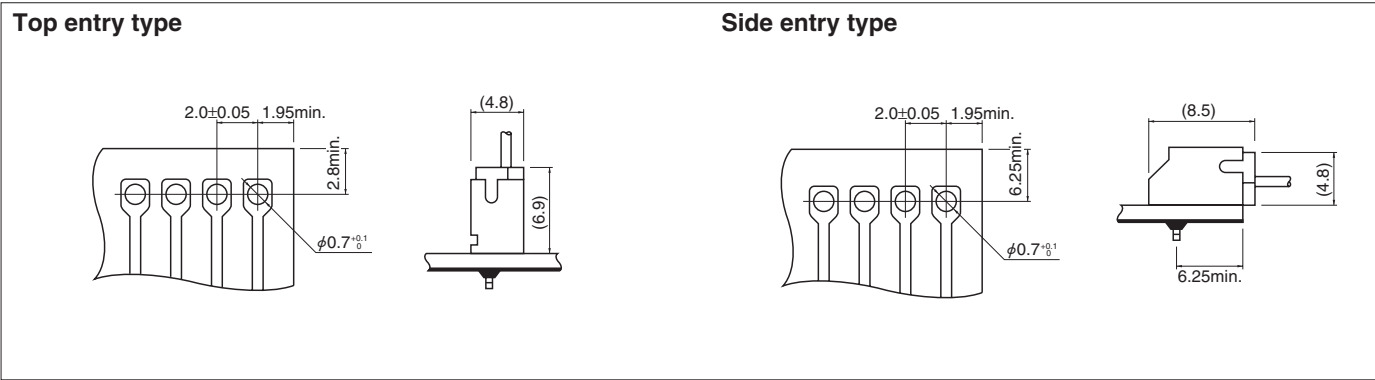
Post: Phosphor bronze, tin-plated (reflow treatment)
Housing: Glass-filled PA 66, UL94V-0, gray

RoHS compliance

Through-hole type shrouded header

The shrouded headers are interchangeable with the PH crimp style connectors and, KR and KRD insulation displacement connectors.

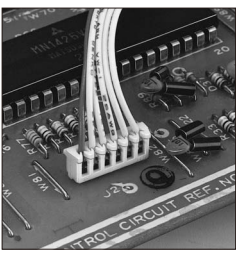
Through-hole type PC board layout (viewed from soldering side) and Assembly layout



Note:
1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. If PC boards made of hard materials are used, the hole dimensions should be larger. The hole dimensions shown above are reference values.
Contact JST for details.

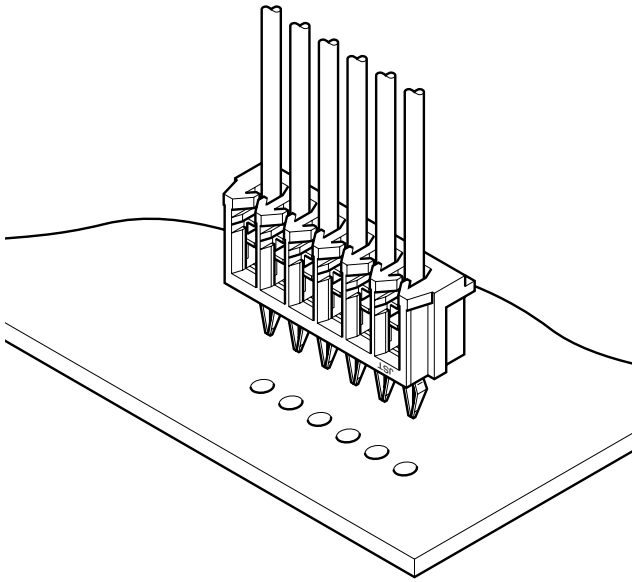
SMT type shrouded header

The shrouded headers are interchangeable with those of the PH crimp style connectors and KR and KRD insulation displacement connectors.



DA CONNECTOR

2.0mm pitch/Board-in Insulation displacement connectors



Measuring 2.0mm in pitch, 5.0mm in mounting height, and 4.0mm in thickness, this board-in connector is useful in miniaturizing the connections of small electronic products, such as VCRs, cameras, stereo systems, and car radios. This connector can be used by itself or in combination with the DR connector.

- **Compact and low profile**
- **Twin U-slot insulation displacement section**
- **Easy mounting onto printed circuit boards**
- **Strain relief**
- **Interchangeability**

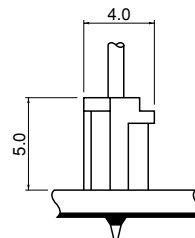
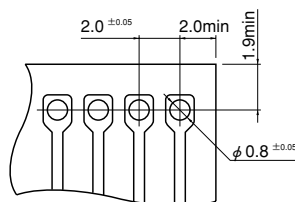
Specifications

- Current rating: 1.0A AC, DC (AWG #26)
- Voltage rating: 100V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: UL1571, 1061(Contact JST for details regarding other UL styles.)
AWG #28, #26
Conductor/7 strands, tin-coated
Insulation O.D./ 0.9 to 1.0mm
- Applicable PC board thickness: 1.2, 1.6mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

- Recognized E60389
- Certified LR20812

PC board layout (viewed from soldering side) and Assembly layout

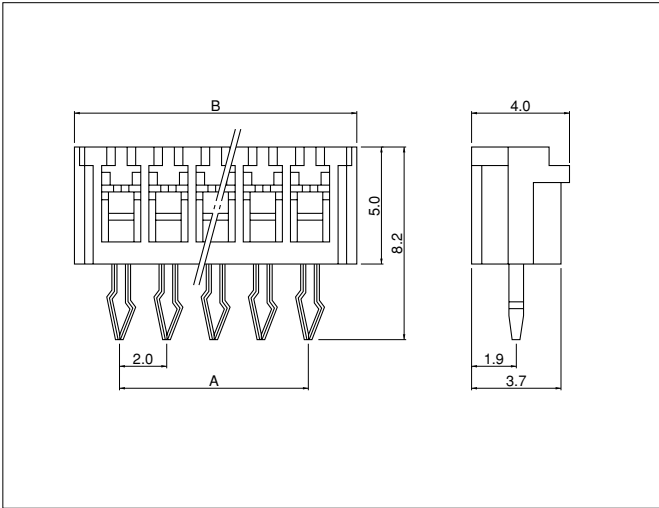


Note: 1. Tolerances are non-cumulative: ± 0.05 mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline.
Contact JST for details.

3. Pulling or otherwise putting a strain on the harness attached to the connector before the solder has completely cooled can dislodge the connector or cause its misalignment.
4. Do not reuse any connectors that were previously soldered and then removed from a PC board.

DA CONNECTOR

Connector



Circuits	Model No.		Dimensions (mm)		Q'ty / box
	AWG #28(green)	AWG #26(natural/white)	A	B	
2	02DA-8M	02DA-6S	2.0	5.9	2,000
3	03DA-8M	03DA-6S	4.0	7.9	2,000
4	04DA-8M	04DA-6S	6.0	9.9	1,000
5	05DA-8M	05DA-6S	8.0	11.9	1,000
6	06DA-8M	06DA-6S	10.0	13.9	1,000
7	07DA-8M	07DA-6S	12.0	15.9	1,000
8	08DA-8M	08DA-6S	14.0	17.9	1,000
9	09DA-8M	09DA-6S	16.0	19.9	500
10	10DA-8M	10DA-6S	18.0	21.9	500
11	11DA-8M	11DA-6S	20.0	23.9	500
12	12DA-8M	12DA-6S	22.0	25.9	500
13	13DA-8M	13DA-6S	24.0	27.9	500
14	14DA-8M	14DA-6S	26.0	29.9	500
15	15DA-8M	15DA-6S	28.0	31.9	250

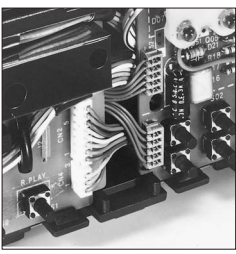
Material and Finish

Contact: Phosphor bronze, nickel-undercoated, tin-plated
Housing: PA 66, UL94V-0

RoHS compliance This product displays (LF) on a label.

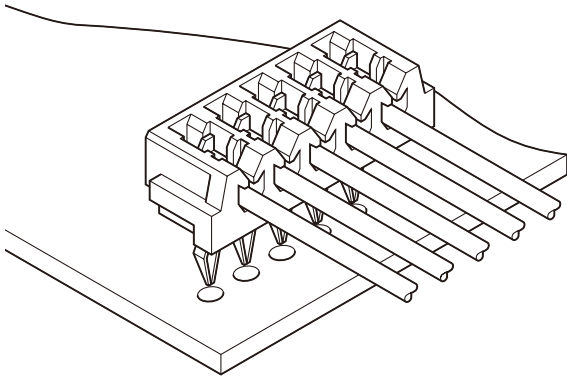
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **02DA-8M**
S...natural (white) [standerd color for AWG#26]
M...green [standerd color for AWG#28]



DD/DS CONNECTOR

2.0mm pitch/Board-in Insulation displacement connectors



The DD and DS right angle board-in insulation displacement connectors measure just 3.5mm in mounting height and 4.3mm in width.

Since these right angle connectors are connected to wires running parallel to the printed circuit board, electronic equipment can have a lower profile. These connectors are suited for the high density wiring of electronic products.

- Compact and low profile
- Twin U-slot insulation displacement section
- Compliant locking solder tails
- Strain relief

Specifications

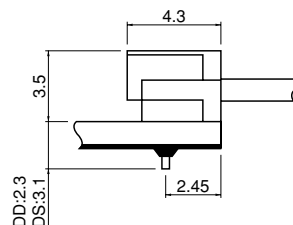
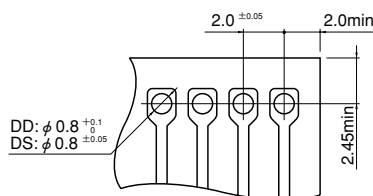
- Current rating: 0.7A AC, DC
- Voltage rating: 100V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: UL1571, 1061 (Contact JST for diameters regarding other UL styles.)
AWG #28
Conductor/7 strands, tin-coated
Insulation O.D./0.9mm
- Applicable PC board thickness:
DD connector: 0.8, 1.0mm
DS connector: 1.2, 1.6mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

Recognized E60389

Certified LR20812

PC board layout (viewed from soldering side) and Assembly layout

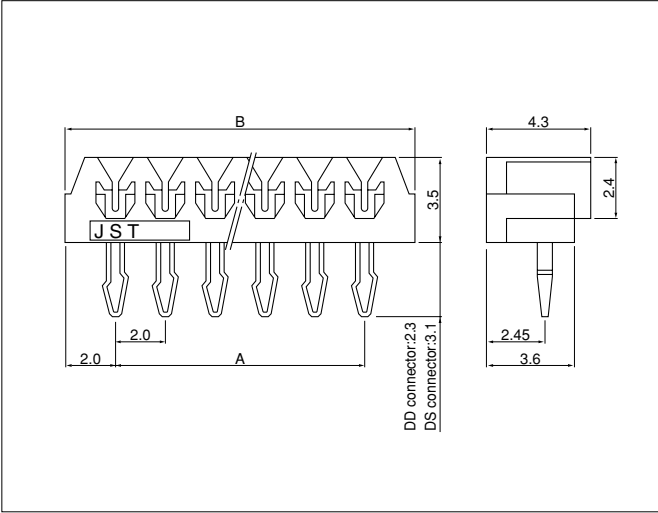


Note: 1. Tolerances are non-cumulative: ± 0.05 mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline.
Contact JST for details.

3. Pulling or otherwise putting a strain on the harness attached to the connector before the solder has completely cooled can dislodge the connector or cause its misalignment.
4. Do not reuse any connectors that were previously soldered to and then removed from a PC board.

DD/DS CONNECTOR

Connector



Circuits	Model No.		Dimensions (mm)		Q'ty / box
	DD connector AWG #28(green)	DS connector AWG #28(blue)	A	B	
2	02DD-8M	02DS-8E	2.0	6.0	2,000
3	03DD-8M	03DS-8E	4.0	8.0	2,000
4	04DD-8M	04DS-8E	6.0	10.0	1,000
5	05DD-8M	05DS-8E	8.0	12.0	1,000
6	06DD-8M	06DS-8E	10.0	14.0	1,000
7	07DD-8M	07DS-8E	12.0	16.0	1,000
8	08DD-8M	08DS-8E	14.0	18.0	500
9	09DD-8M	09DS-8E	16.0	20.0	500
10	10DD-8M	10DS-8E	18.0	22.0	500
11	11DD-8M	11DS-8E	20.0	24.0	500
12	12DD-8M	12DS-8E	22.0	26.0	500
13	13DD-8M	13DS-8E	24.0	28.0	500
14	14DD-8M	14DS-8E	26.0	30.0	500
15	15DD-8M	15DS-8E	28.0	32.0	500

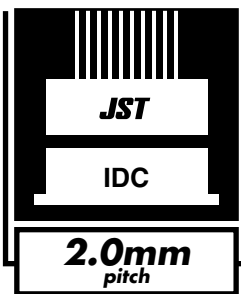
Material and Finish

Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Housing: 2 to 11 circuits/PA 66, UL94V-0
12 to 15 circuits/Glass-filled PA 66, UL94V-0

RoHS compliance This product displays (LF)(SN) on a label.

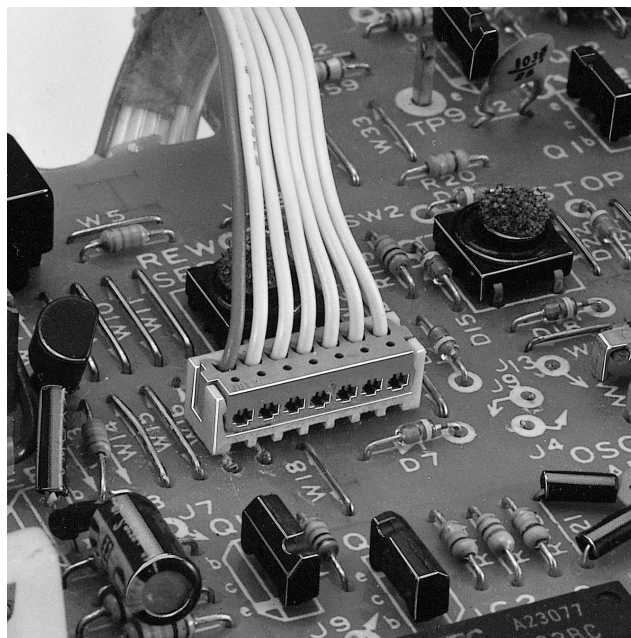
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **02DD-8M**
M...(DD connector) green
E...(DS connector) blue

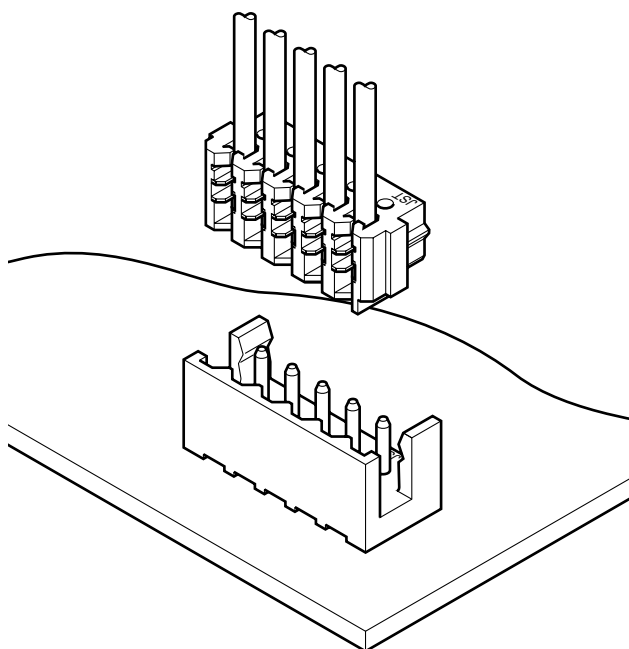


DR CONNECTOR

Disconnectable Insulation displacement connectors



Measuring 2.0mm in pitch, only 5.0mm in mounting height, and 4.8mm in thickness, the DR connector is a compact insulation displacement connector developed to meet the needs for miniaturization of electronic equipment, including VCRs, cameras and car stereo systems.



Features

• Compact

This connector measures 2.0mm in pitch, 5.0mm in mounting height, and 4.8mm in thickness.

• Twin U-slot insulation displacement section

The insulation displacement section connected to each wire consists of twin U-slot, which ensures reliable connection.

• Folded beam double-leaf contact construction

As contact become smaller, their spring strength is reduced. To solve this problem, a folded beam construction is employed to increase contact spring strength.

• Strain relief

A strain relief secures the wire insulation to protect the insulation displacement connection against vibration, impact and other external forces. A triangular projection on the shrouded header functions to prevent connector distortion during connection and disconnection, to reinforce the strain relief and to prevent the conductor of the insulation displacement section from being exposed.

Specifications

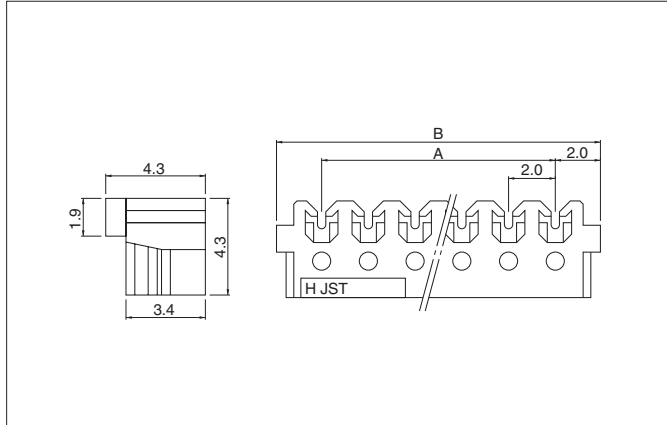
- Current rating: 1.0A AC, DC (AWG #26)
- Voltage rating: 100V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: UL1571, 1061(Contact JST for details regarding other UL wires.)
AWG #28, #26
Conductor/7 strands, tin-coated
Insulation O.D./0.9 to 1.0mm
- Applicable PC board thickness: 1.2 to 1.6mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

Recognized E60389

Certified LR20812

Receptacle



Cir- cuits	Model No.		Dimensions (mm)		Q'ty / box
	AWG #28 (blue)	AWG #26 (natural/white)	A	B	
2	02DR-N-E8E-P	02DR-N-E6S-P	2.0	6.0	2,000
3	03DR-N-E8E-P	03DR-N-E6S-P	4.0	8.0	2,000
4	04DR-N-E8E-P	04DR-N-E6S-P	6.0	10.0	1,000
5	05DR-N-E8E-P	05DR-N-E6S-P	8.0	12.0	1,000
6	06DR-N-E8E-P	06DR-N-E6S-P	10.0	14.0	1,000
7	07DR-N-E8E-P	07DR-N-E6S-P	12.0	16.0	1,000
8	08DR-N-E8E-P	08DR-N-E6S-P	14.0	18.0	1,000
9	09DR-N-E8E-P	09DR-N-E6S-P	16.0	20.0	500
10	10DR-N-E8E-P	10DR-N-E6S-P	18.0	22.0	500

Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0

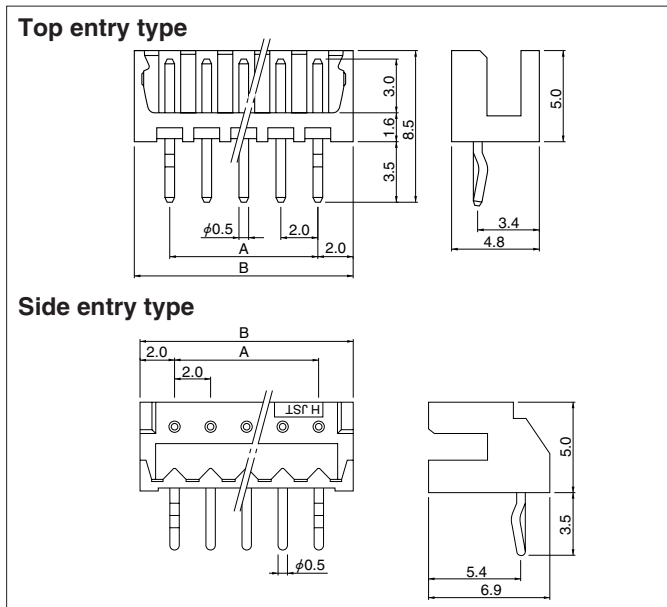
RoHS compliance

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **02DR- N- E8E-P**

standard color AWG#28: E...blue AWG#26: S...natural (white)
K...black R...red

Shrouded header



Cir- cuits	Model No.		Dimensions (mm)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
2	B02-DR	S02B-DR	2.0	6.0	2,000	1,000
3	B03-DR	S03B-DR	4.0	8.0	1,000	1,000
4	B04-DR	S04B-DR	6.0	10.0	1,000	1,000
5	B05-DR	S05B-DR	8.0	12.0	1,000	1,000
6	B06-DR	S06B-DR	10.0	14.0	500	500
7	B07-DR	S07B-DR	12.0	16.0	500	500
8	B08-DR	S08B-DR	14.0	18.0	500	500
9	B09-DR	S09B-DR	16.0	20.0	500	500
10	B10-DR	S10B-DR	18.0	22.0	500	500

Material and Finish

Pin: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, ivory

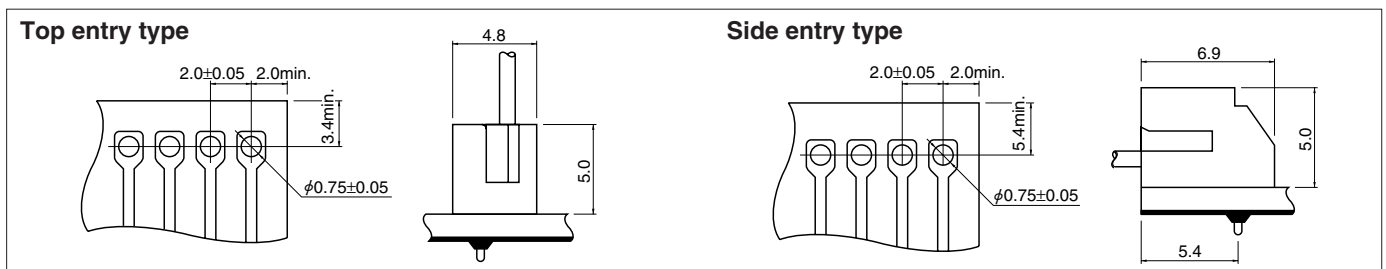
RoHS compliance

This product displays (LF)(SN) on a label.
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **B02-DR- OO**

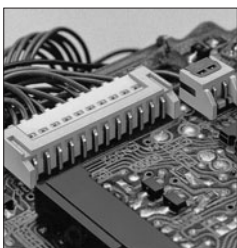
(blank)... ivory K...black R...red E...blue S...white

PC board layout (viewed from soldering side) and Assembly layout



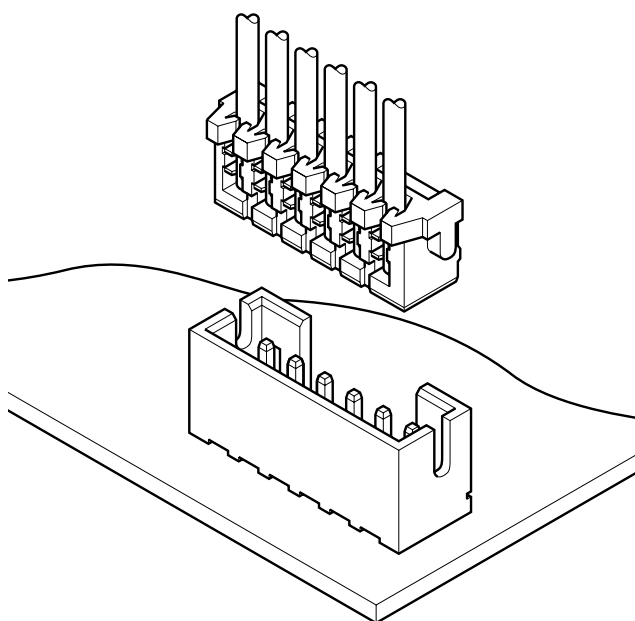
Note:

1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline.
Contact JST for details.



KR CONNECTOR

2.0mm pitch/Disconnectable Insulation displacement connectors



The KR connector features a mounting height as low as 6.9mm and a thickness as thin as 4.8mm (for top entry type). It is suitable for interconnection of a wide range of electronic equipment such as VCRs, video cameras, car stereo systems and communication equipment.

- **Folded beam double-leaf contact construction**
- **Twin U-slot insulation displacement section**
- **Strain relief**
- **Compatible with the PH crimp style connector**
- **Surface mount model (SMT)**

Specifications

- Current rating: 1.0A AC, DC (AWG #26)
- Voltage rating: 100V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: UL1571, 1061 (Contact JST for details regarding other UL styles.)
AWG #28 to #26
Conductor/7 strands, tin-coated
Insulation O.D./0.9 to 1.0mm
(The standard applicable wire for connectors having 13 circuits or more is UL 1061.)
- Applicable panel thickness: 0.8 to 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

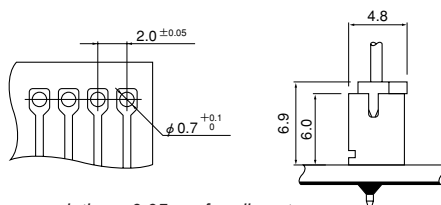
Recognized E60389

Certified LR20812

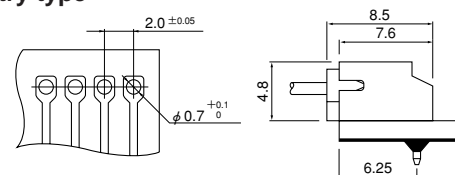
R75088

Through-hole type PC board layout (viewed from soldering side) and Assembly layout

Top entry type



Side entry type



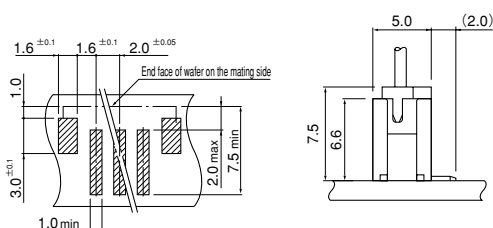
Note: 1. Tolerances are non-cumulative: ± 0.05 mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. If PC board made of hard material are used, the hole dimensions should be larger. The hole dimensions above should serve as a guideline. Contact JST for details.

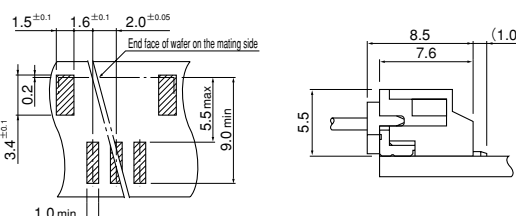
SMT type PC board layout (viewed from component side) and Assembly layout

<SM4 type>

Top entry type



Side entry type

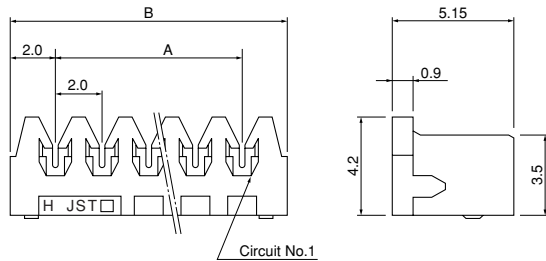


Note: 1. Tolerances are non-cumulative: ± 0.05 mm for all centers.

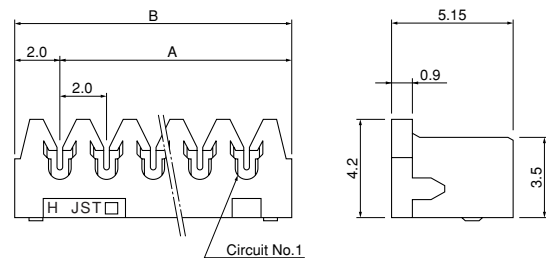
2. The dimensions above should serve as a guideline. Contact JST for details.

Receptacle

(2 to 12 circuits)



(13 to 16 circuits)



Circuits	Model No.	Dimensions (mm)		Q'ty / box
	Normal type	A	B	
2	02KR-6H-P	2.0	6.0	2,000
3	03KR-6H-P	4.0	8.0	2,000
4	04KR-6H-P	6.0	10.0	2,000
5	05KR-6H-P	8.0	12.0	2,000
6	06KR-6H-P	10.0	14.0	2,000
7	07KR-6H-P	12.0	16.0	1,000
8	08KR-6H-P	14.0	18.0	1,000
9	09KR-6H-P	16.0	20.0	1,000
10	10KR-6H-P	18.0	22.0	1,000
11	11KR-6H-P	20.0	24.0	1,000
12	12KR-6H-P	22.0	26.0	1,000
13	13KR-6H-P	24.0	28.0	500
14	14KR-6H-P	26.0	30.0	500
15	15KR-6H-P	28.0	32.0	500
16	16KR-6H-P	30.0	34.0	500

Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: 2 to 12 circuits/PA 66, UL94V-0, gray
13 to 16 circuits/Glass-filled PA 66, UL94V-0, gray

RoHS compliance

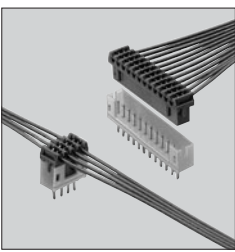
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **02KR-6H-P**

H...gray K...black E...blue R...red

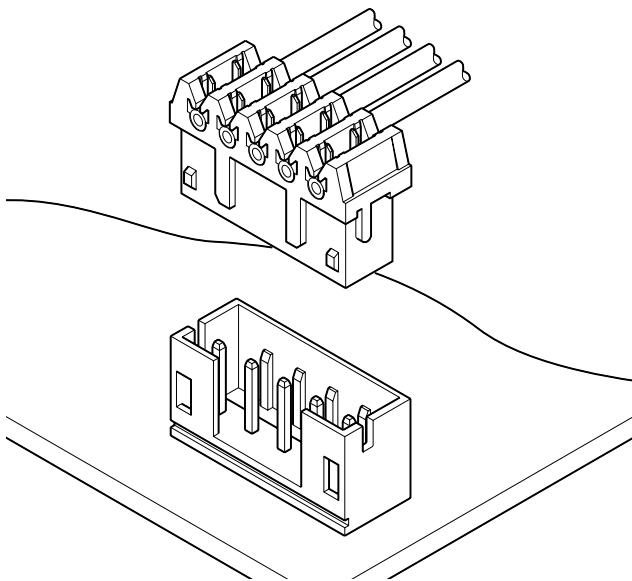
Shrouded header

The shrouded headers are interchangeable with those of the PH crimp style connectors and CR and KRD insulation displacement connectors.



KRD CONNECTOR

2.0mm pitch/Disconnectable Insulation displacement connectors



This 2.0mm pitch insulation displacement connector is another version of the NRD connector for printed circuit boards. The KRD connector allows daisy chaining and is very useful in simplifying connection systems in electronic equipment.

- **Daisy chain connection**
- **Twin slot insulation displacement section**
- **Distortion resistant construction**
- **Interchangeability**
- **Low profile design - a mere 9.0mm high from the PC board surface**

Specifications

- Current rating: 1.0A AC, DC (AWG #26)
- Voltage rating: 100V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: UL1571, UL1061 (Contact JST for details regarding other UL styles.)
AWG #28, #26
Conductor/7 strands, tin-coated
Insulation O.D./0.9 to 1.0mm
- Applicable PC board thickness: 0.8 to 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

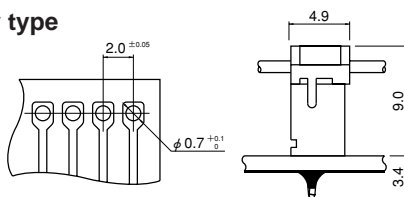
Standards

Ⓡ Recognized E60389

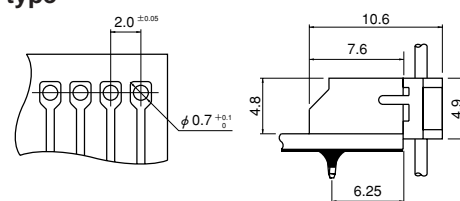
Ⓢ Certified LR20812

Through-hole type PC board layout (viewed from soldering side) and Assembly layout

Top entry type



Side entry type



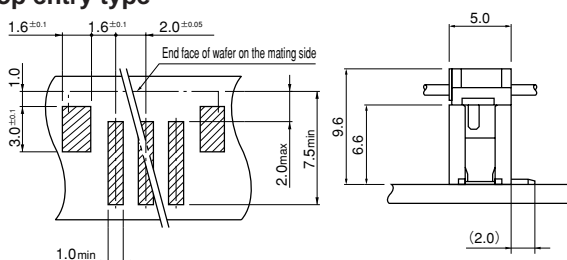
Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimensions differ according to the kind of PC boards and piercing method. If PC boards made of hard material are used, the hole dimensions should be larger. The dimensions above should serve as a guideline. Contact JST for details.

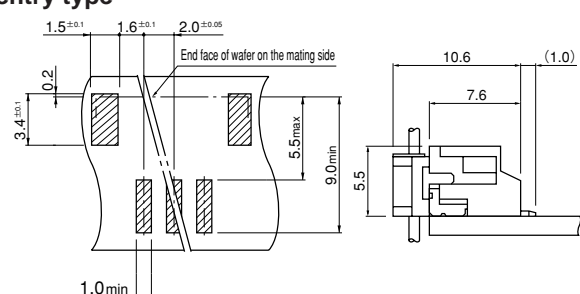
SMT type PC board layout (viewed from component side) and Assembly layout

<SM4 type>

Top entry type



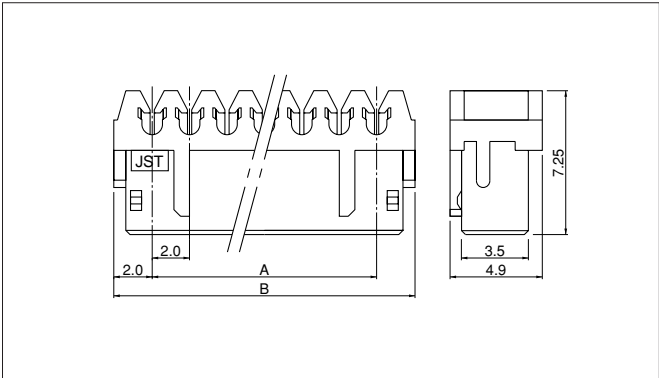
Side entry type



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. The dimensions above should serve as a guideline. Contact JST for details.

Receptacle



Cir- cuits	Model No.		Dimensions (mm)		Q'ty / box
	AWG #28(green)	AWG #26(natural/white)	A	B	
2	02KR-D8M-P	02KR-D6S-P	2.0	6.0	2,000
3	03KR-D8M-P	03KR-D6S-P	4.0	8.0	2,000
4	04KR-D8M-P	04KR-D6S-P	6.0	10.0	2,000
5	05KR-D8M-P	05KR-D6S-P	8.0	12.0	1,000
6	06KR-D8M-P	06KR-D6S-P	10.0	14.0	1,000
7	07KR-D8M-P	07KR-D6S-P	12.0	16.0	1,000
8	08KR-D8M-P	08KR-D6S-P	14.0	18.0	1,000
9	09KR-D8M-P	09KR-D6S-P	16.0	20.0	500
10	10KR-D8M-P	10KR-D6S-P	18.0	22.0	500
11	11KR-D8M-P	11KR-D6S-P	20.0	24.0	500
12	12KR-D8M-P	12KR-D6S-P	22.0	26.0	500
13	13KR-D8M-P	13KR-D6S-P	24.0	28.0	500
14	14KR-D8M-P	14KR-D6S-P	26.0	30.0	500
15	15KR-D8M-P	15KR-D6S-P	28.0	32.0	500
16	16KR-D8M-P	16KR-D6S-P	30.0	34.0	500

Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0

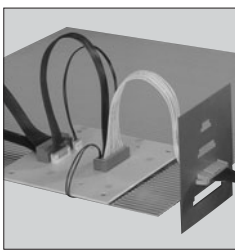
RoHS compliance

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **02KR-D6S-P**
S...natural (white) [standard color for AWG#26]
M...green [standard color for AWG#28]

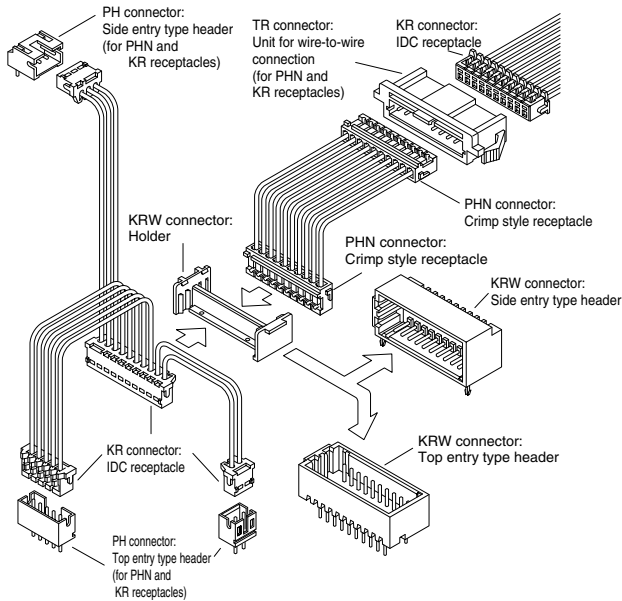
Shrouded header

The shrouded headers are interchangeable with the PH crimp style connectors and with CR and KR insulation displacement connectors.



KR FAMILY SERIES/KRW·KR·PHN·TR CONNECTOR

2.0mm pitch/Disconnectable Insulation displacement and Crimp style connectors



Based upon JST's field proven KR series connectors, the KR series family of connectors have been expanded to meet the requirements of high density packaging. The KRW connector allows double-row wire-to-board connection using either the KR or PHN connectors. Whilst the TR connector allows wire-to-wire connection, also using either the KR or PHN connectors.

- **Multi-IDC-harnesses are possible**
- **Various types of connectors**
- **Cost reduction**
- **Two types of circuit layouts**

Specifications

Item	Series	KRW connector	TR · TRW connector
Current rating		1.0 A AC,DC (AWG #26)	
Voltage rating		100 V AC,DC	
Temperature rise		-25°C to +85°C (including temperature rise)	
Contact resistance		initial/10 mΩ max. After environmental tests/20 mΩ max.	
Insulation resistance		1,000 MΩ min.	
Withstanding voltage		800 VAC/minute	
Applicable connector		KR connector, CR connector, PHN connector	
Applicable PC board thickness		1.6 mm	—
Applicable panel thickness		—	0.5 mm to 2 mm

- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Compliant with RoHS.

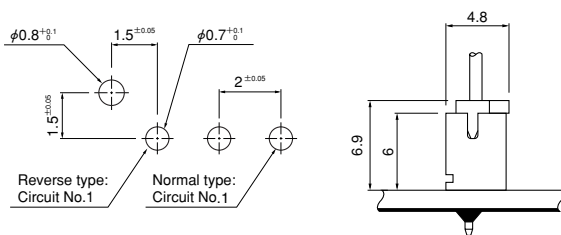
Standards

- ⚡ Recognized E60389
- Ⓢ Certified LR20812
- ⚠ R75087: PH, PHN connectors

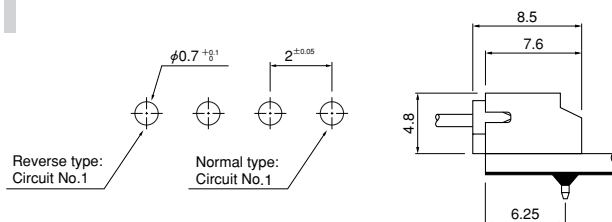
Single-row shrouded header

<Through-hole type(viewed from component side)>

Top entry type



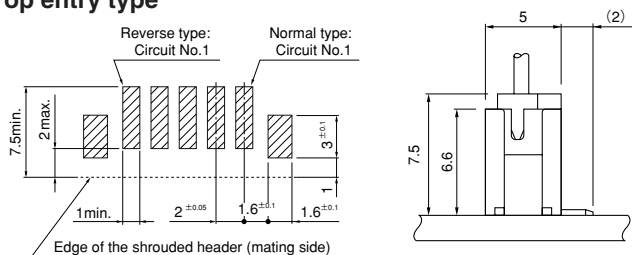
Side entry type



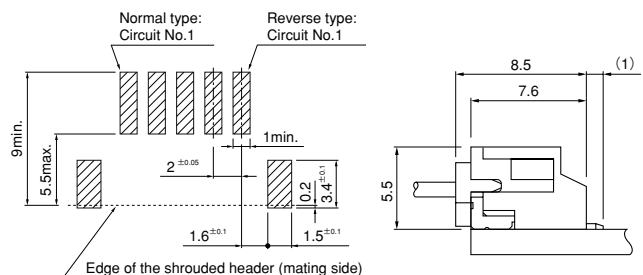
Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
2. Hole dimensions differ according to the type of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

<SMTtype(viewed from soldering side)>

Top entry type



Side entry type

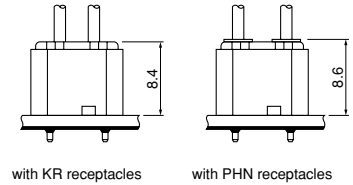
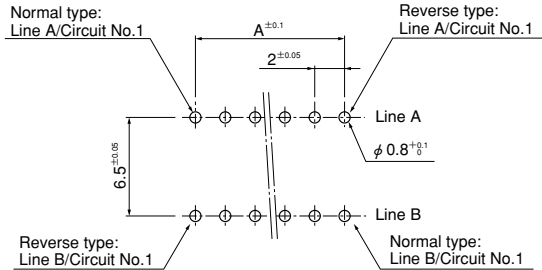


Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

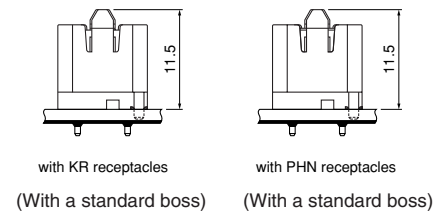
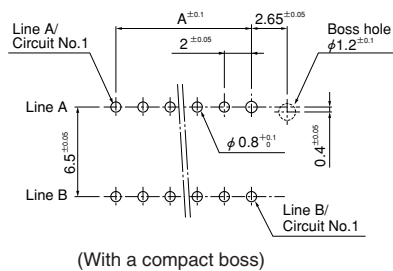
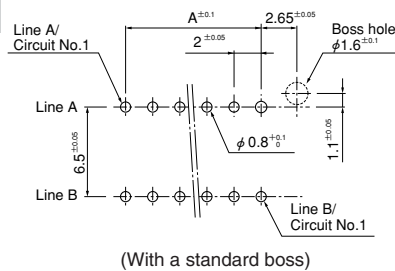
KR FAMILY SERIES/KRW·KR·PHN·TR CONNECTOR

Double-row shrouded header (viewed from component side)

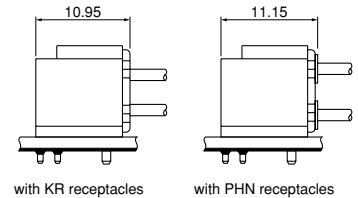
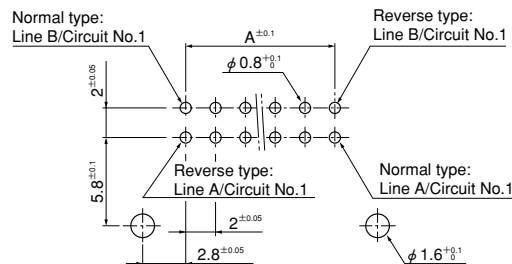
Top entry type



With locks



Side entry type

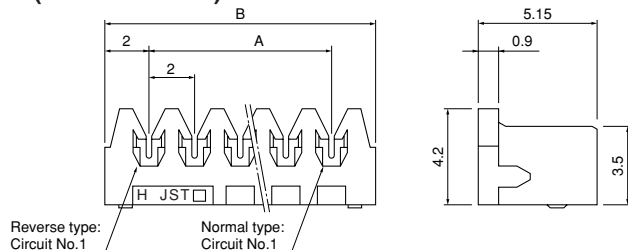


Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.

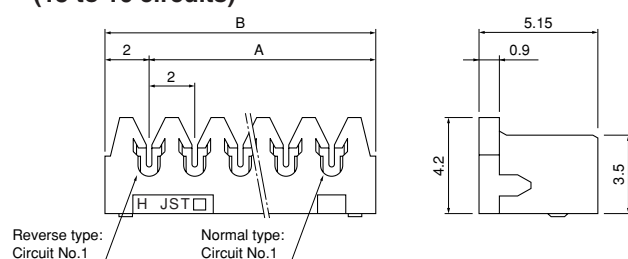
2. Hole dimensions differ according to the type of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Insulation displacement connector (Receptacle)

(2 to 12 circuits)



(13 to 16 circuits)



Circuits	Model No.		Dimensions (mm)		Qty / box
	Normal type	Reverse type	A	B	
2	02KR-6H-P	02KR-6H-PC	2.0	6.0	2,000
3	03KR-6H-P	03KR-6H-PC	4.0	8.0	2,000
4	04KR-6H-P	04KR-6H-PC	6.0	10.0	2,000
5	05KR-6H-P	05KR-6H-PC	8.0	12.0	2,000
6	06KR-6H-P	06KR-6H-PC	10.0	14.0	2,000
7	07KR-6H-P	07KR-6H-PC	12.0	16.0	1,000
8	08KR-6H-P	08KR-6H-PC	14.0	18.0	1,000
9	09KR-6H-P	09KR-6H-PC	16.0	20.0	1,000
10	10KR-6H-P	10KR-6H-PC	18.0	22.0	1,000
11	11KR-6H-P	11KR-6H-PC	20.0	24.0	1,000
12	12KR-6H-P	12KR-6H-PC	22.0	26.0	1,000
13	13KR-6H-P	13KR-6H-PC	24.0	28.0	500
14	14KR-6H-P	14KR-6H-PC	26.0	30.0	500
15	15KR-6H-P	15KR-6H-PC	28.0	32.0	500
16	16KR-6H-P	16KR-6H-PC	30.0	34.0	500

Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: 2 to 12 circuits...PA 66, UL94V-0, gray
13 to 16 circuits...Glass-filled PA 66, UL94V-0, gray

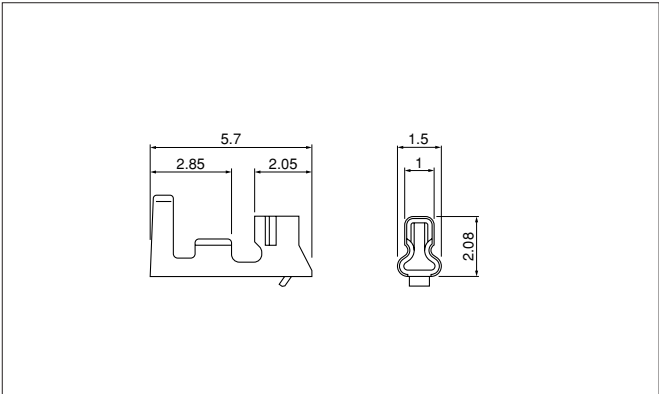
Applicable wire

UL1571, 1061(Contact JST for other UL styles.)
AWG#28, #26
Conductor / 7 strands, tin-plated annealed copper
Insulation O.D. / 0.9 to 1.0mm

RoHS compliance

KR FAMILY SERIES/KRW·KR·PHN·TR CONNECTOR

Crimp style connector (Contact)



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm²	AWG#		
SPH-002T-P0.5L	0.08~0.22	28~24	0.8~1.5	8,000

Material and Finish

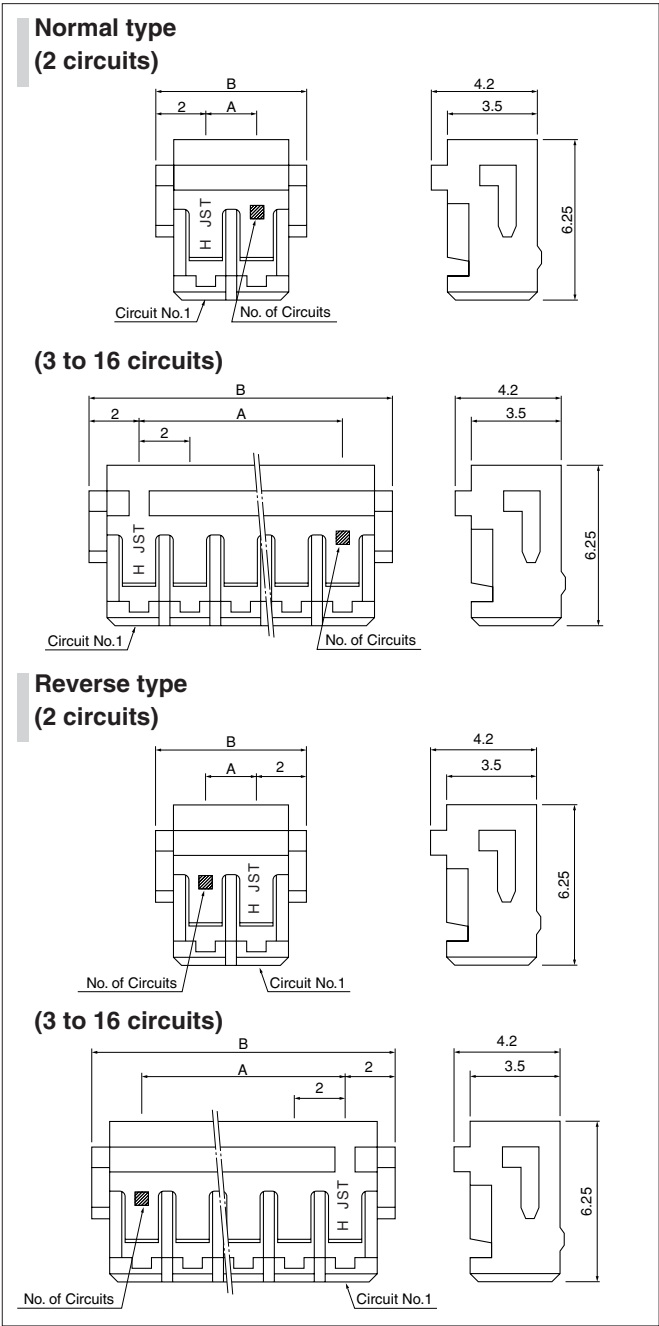
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance
Note: SPH-002T-P0.5S is also available.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPH-002T-P0.5L	AP-K2N	MKS-L	MK/SPH-002-05L	APLMK SPH002-05L
		*MKS-SC	SC/SPH-002-05L	APLSC SPH002-05L

Note: *Strip-crimp applicator

Crimp style connector (Housing)



Circuits	Model No.		Dimensions (mm)		Q'ty / bag
	Normal type	Reverse type	A	B	
2	PHNR-02-H	PHNR-02C-H	2.0	6.0	1,000
3	PHNR-03-H	PHNR-03C-H	4.0	8.0	1,000
4	PHNR-04-H	PHNR-04C-H	6.0	10.0	1,000
5	PHNR-05-H	PHNR-05C-H	8.0	12.0	1,000
6	PHNR-06-H	PHNR-06C-H	10.0	14.0	1,000
7	PHNR-07-H	PHNR-07C-H	12.0	16.0	1,000
8	PHNR-08-H	PHNR-08C-H	14.0	18.0	1,000
9	PHNR-09-H	PHNR-09C-H	16.0	20.0	1,000
10	PHNR-10-H	PHNR-10C-H	18.0	22.0	1,000
11	PHNR-11-H	PHNR-11C-H	20.0	24.0	1,000
12	PHNR-12-H	PHNR-12C-H	22.0	26.0	1,000
13	PHNR-13-H	PHNR-13C-H	24.0	28.0	1,000
14	PHNR-14-H	PHNR-14C-H	26.0	30.0	1,000
15	PHNR-15-H	PHNR-15C-H	28.0	32.0	1,000
16	PHNR-16-H	PHNR-16C-H	30.0	34.0	1,000

Material

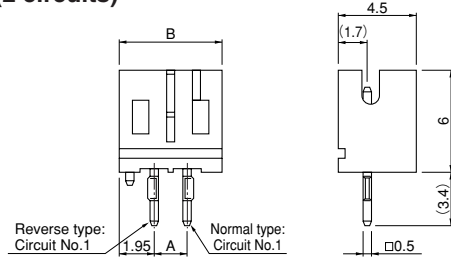
PA 66, UL94V-0, gray

RoHS compliance

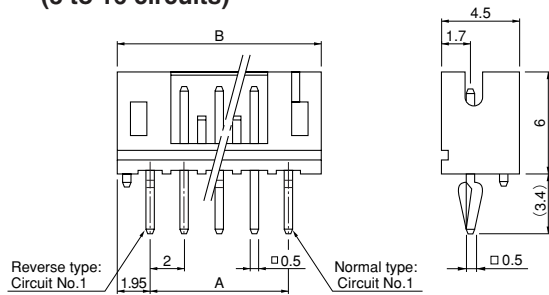
KR FAMILY SERIES/KRW·KR·PHN·TR CONNECTOR

Single-row shrouded header (Through-hole type)

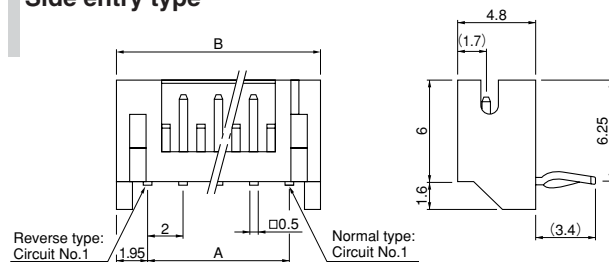
Top entry type (2 circuits)



(3 to 16 circuits)



Side entry type



Circuits	Normal type Model No.		Dimensions(mm)		Q'ty / box	
	Top entry type (with boss)	Side entry type	A	B	Top entry type (with a boss)	Side entry type
2	B2B-PH-KBL-H	S2B-PH-KL	2.0	5.9	1,000	1,000
3	B3B-PH-KBL-H	S3B-PH-KL	4.0	7.9	1,000	1,000
4	B4B-PH-KBL-H	S4B-PH-KL	6.0	9.9	1,000	500
5	B5B-PH-KBL-H	S5B-PH-KL	8.0	11.9	1,000	500
6	B6B-PH-KBL-H	S6B-PH-KL	10.0	13.9	1,000	500
7	B7B-PH-KBL-H	S7B-PH-KL	12.0	15.9	500	500
8	B8B-PH-KBL-H	S8B-PH-KL	14.0	17.9	500	250
9	B9B-PH-KBL-H	S9B-PH-KL	16.0	19.9	500	250
10	B10B-PH-KBL-H	S10B-PH-KL	18.0	21.9	500	250
11	B11B-PH-KBL-H	S11B-PH-KL	20.0	23.9	500	250
12	B12B-PH-KBL-H	S12B-PH-KL	22.0	25.9	500	250
13	B13B-PH-KBL-H	S13B-PH-KL	24.0	27.9	250	250
14	B14B-PH-KBL-H	S14B-PH-KL	26.0	29.9	250	200
15	B15B-PH-KBL-H	S15B-PH-KL	28.0	31.9	250	200
16	B16B-PH-KBL-H	S16B-PH-KL	30.0	33.9	250	200

Circuits	Reverse type Model No.		Dimensions(mm)		Q'ty / box	
	Top entry type (with boss)	Side entry type	A	B	Top entry type (with a boss)	Side entry type
2	B2B-PH-KBLC-H	S2B-PH-KLC-H	2.0	5.9	1,000	1,000
3	B3B-PH-KBLC-H	S3B-PH-KLC-H	4.0	7.9	1,000	1,000
4	B4B-PH-KBLC-H	S4B-PH-KLC-H	6.0	9.9	1,000	500
5	B5B-PH-KBLC-H	S5B-PH-KLC-H	8.0	11.9	1,000	500
6	B6B-PH-KBLC-H	S6B-PH-KLC-H	10.0	13.9	1,000	500
7	B7B-PH-KBLC-H	S7B-PH-KLC-H	12.0	15.9	500	500
8	B8B-PH-KBLC-H	S8B-PH-KLC-H	14.0	17.9	500	250
9	B9B-PH-KBLC-H	S9B-PH-KLC-H	16.0	19.9	500	250
10	B10B-PH-KBLC-H	S10B-PH-KLC-H	18.0	21.9	500	250
11	B11B-PH-KBLC-H	S11B-PH-KLC-H	20.0	23.9	500	250
12	B12B-PH-KBLC-H	S12B-PH-KLC-H	22.0	25.9	500	250
13	B13B-PH-KBLC-H	S13B-PH-KLC-H	24.0	27.9	250	250
14	B14B-PH-KBLC-H	S14B-PH-KLC-H	26.0	29.9	250	200
15	B15B-PH-KBLC-H	S15B-PH-KLC-H	28.0	31.9	250	200
16	B16B-PH-KBLC-H	S16B-PH-KLC-H	30.0	33.9	250	200

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, gray

RoHS compliance This product displays (LF)(SN) on a label.

Note: 1. Top entry type headers without a bosses are also available.

2. PH connector header [B()B-PH-K-S, S()B-PH-K-S] can be also used.
() stands for circuits No.

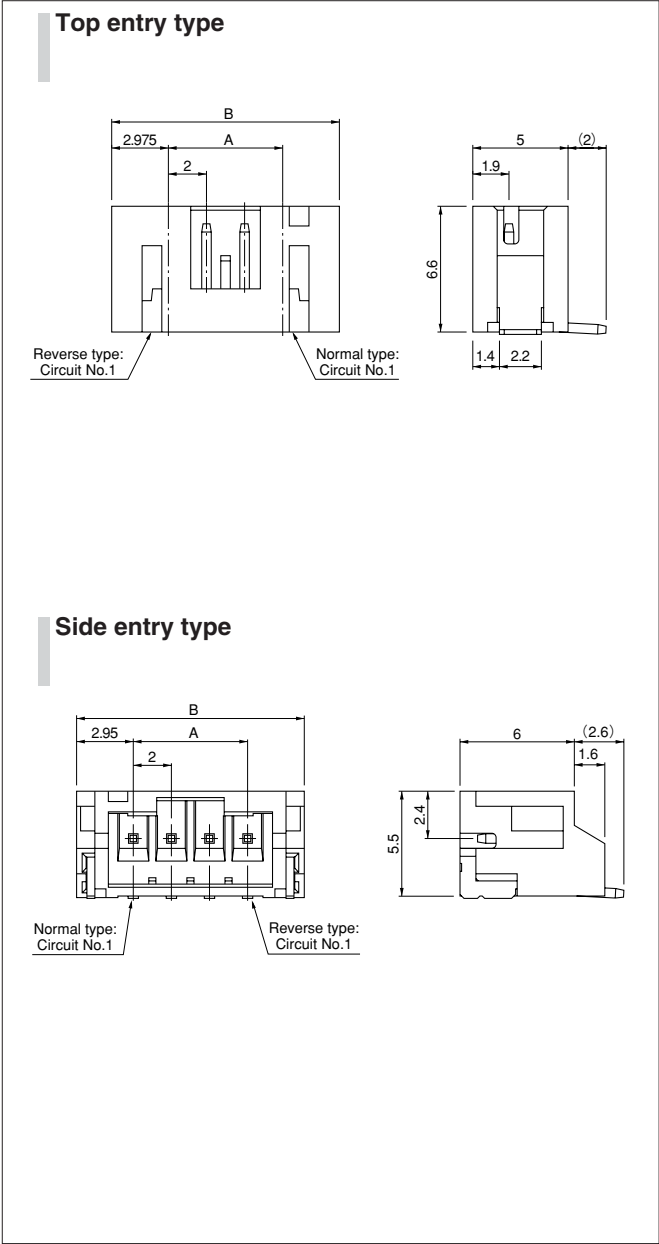
<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **B2B-PH-KBLC-H**

H...gray S...white Y...yellow R...red N...brown
K...black (blank)...gray (normal side entry type only)

KR FAMILY SERIES/KRW·KR·PHN·TR CONNECTOR

Single-row shrouded header (SMT type)



Circuits	Normal type Model No.		Dimensions (mm)			Q'ty / reel
			A	B		
	Top entry type	Side entry type		Top entry type	Side entry type	
2	B2B-PH-SM4-TB	S2B-PH-SM4-TB	2.0	7.95	7.9	1,000
3	B3B-PH-SM4-TB	S3B-PH-SM4-TB	4.0	9.95	9.9	1,000
4	B4B-PH-SM4-TB	S4B-PH-SM4-TB	6.0	11.95	11.9	1,000
5	B5B-PH-SM4-TB	S5B-PH-SM4-TB	8.0	13.95	13.9	1,000
6	B6B-PH-SM4-TB	S6B-PH-SM4-TB	10.0	15.95	15.9	1,000
7	B7B-PH-SM4-TB	S7B-PH-SM4-TB	12.0	17.95	17.9	1,000
8	B8B-PH-SM4-TB	S8B-PH-SM4-TB	14.0	19.95	19.9	1,000
9	B9B-PH-SM4-TB	S9B-PH-SM4-TB	16.0	21.95	21.9	1,000
10	B10B-PH-SM4-TB	S10B-PH-SM4-TB	18.0	23.95	23.9	1,000
11	B11B-PH-SM4-TB	S11B-PH-SM4-TB	20.0	25.95	25.9	1,000
12	B12B-PH-SM4-TB	S12B-PH-SM4-TB	22.0	27.95	27.9	1,000
13	B13B-PH-SM4-TB	S13B-PH-SM4-TB	24.0	29.95	29.9	1,000
14	B14B-PH-SM4-TB	S14B-PH-SM4-TB	26.0	31.95	31.9	1,000
15	B15B-PH-SM4-TB	S15B-PH-SM4-TB	28.0	33.95	33.9	1,000
16	B16B-PH-SM4-TB	—	30.0	35.95	—	1,000

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 6T, UL94V-0, natural (ivory)
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.
Note: Top entry type headers with suction tape are also available.

Circuits	Reverse type Model No.		Dimensions (mm)		Q'ty / reel
	Top entry type	Side entry type	A	B	
2	B2B-PH-SM4C-TB	S2B-PH-SM4C-TB	2.0	7.9	1,000
3	B3B-PH-SM4C-TB	S3B-PH-SM4C-TB	4.0	9.9	1,000
4	B4B-PH-SM4C-TB	S4B-PH-SM4C-TB	6.0	11.9	1,000
5	B5B-PH-SM4C-TB	S5B-PH-SM4C-TB	8.0	13.9	1,000
6	B6B-PH-SM4C-TB	S6B-PH-SM4C-TB	10.0	15.9	1,000
7	B7B-PH-SM4C-TB	S7B-PH-SM4C-TB	12.0	17.9	1,000
8	B8B-PH-SM4C-TB	S8B-PH-SM4C-TB	14.0	19.9	1,000
9	B9B-PH-SM4C-TB	S9B-PH-SM4C-TB	16.0	21.9	1,000
10	B10B-PH-SM4C-TB	S10B-PH-SM4C-TB	18.0	23.9	1,000
11	B11B-PH-SM4C-TB	S11B-PH-SM4C-TB	20.0	25.9	1,000
12	B12B-PH-SM4C-TB	S12B-PH-SM4C-TB	22.0	27.9	1,000
13	B13B-PH-SM4C-TB	S13B-PH-SM4C-TB	24.0	29.9	1,000
14	B14B-PH-SM4C-TB	S14B-PH-SM4C-TB	26.0	31.9	1,000
15	B15B-PH-SM4C-TB	S15B-PH-SM4C-TB	28.0	33.9	1,000
16	B16B-PH-SM4C-TB	—	30.0	35.9	1,000

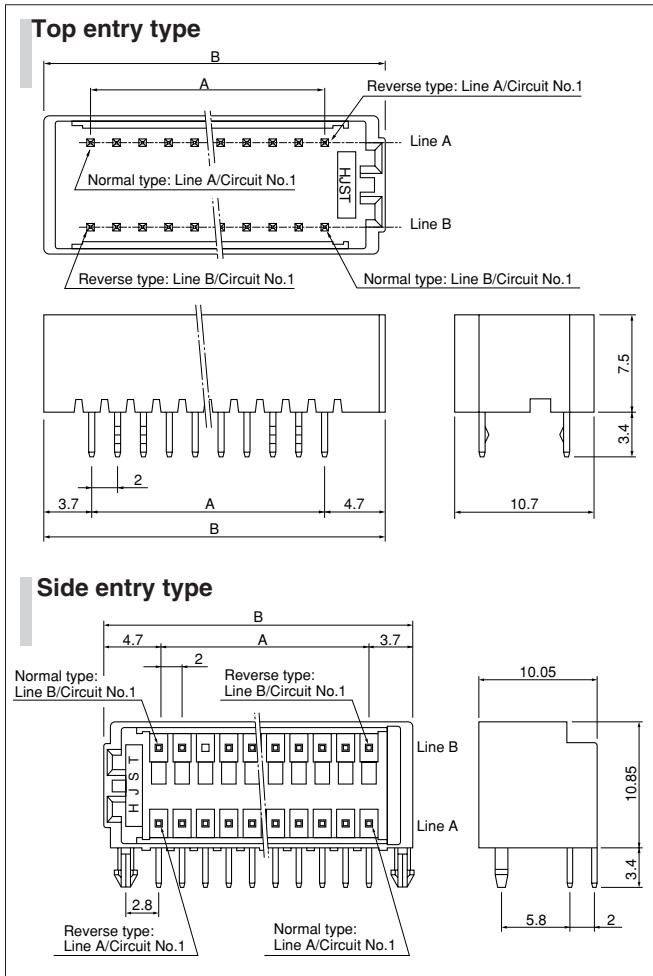
Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 6T, UL94V-0, natural (ivory)
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

KR FAMILY SERIES/KRW·KR·PHN·TR CONNECTOR

Double-row shrouded Header



Circuits	Model No.				Dimensions (mm)		Q'ty / box	
	Normal type		Reverse type		A	B	Top entry type	Side entry type
	Top entry type	Side entry type	Top entry type	Side entry type				
16	B16B-KRWHK	S16B-KRWHS	B16B-KRWHK-C	S16B-KRWHS-C	14.0	22.4	320	280
18	B18B-KRWHK	S18B-KRWHS	B18B-KRWHK-C	S18B-KRWHS-C	16.0	24.4	288	252
20	B20B-KRWHK	S20B-KRWHS	B20B-KRWHK-C	S20B-KRWHS-C	18.0	26.4	256	224
22	B22B-KRWHK	S22B-KRWHS	B22B-KRWHK-C	S22B-KRWHS-C	20.0	28.4	224	196
24	B24B-KRWHK	—	B24B-KRWHK-C	—	22.0	30.4	224	196
26	B26B-KRWHK	S26B-KRWHS	B26B-KRWHK-C	S26B-KRWHS-C	24.0	32.4	192	168
28	B28B-KRWHK	S28B-KRWHS	B28B-KRWHK-C	S28B-KRWHS-C	26.0	34.4	192	168
30	B30B-KRWHK	S30B-KRWHS	B30B-KRWHK-C	S30B-KRWHS-C	28.0	36.4	192	168
32	B32B-KRWHK	S32B-KRWHS	B32B-KRWHK-C	S32B-KRWHS-C	30.0	38.4	160	140

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, gray

RoHS compliance This product displays (LF)(SN) on a label.

Note: 1. Top entry type headers with bosses or without clinched tails are also available.

2. The products listed above are supplied packed in tray.

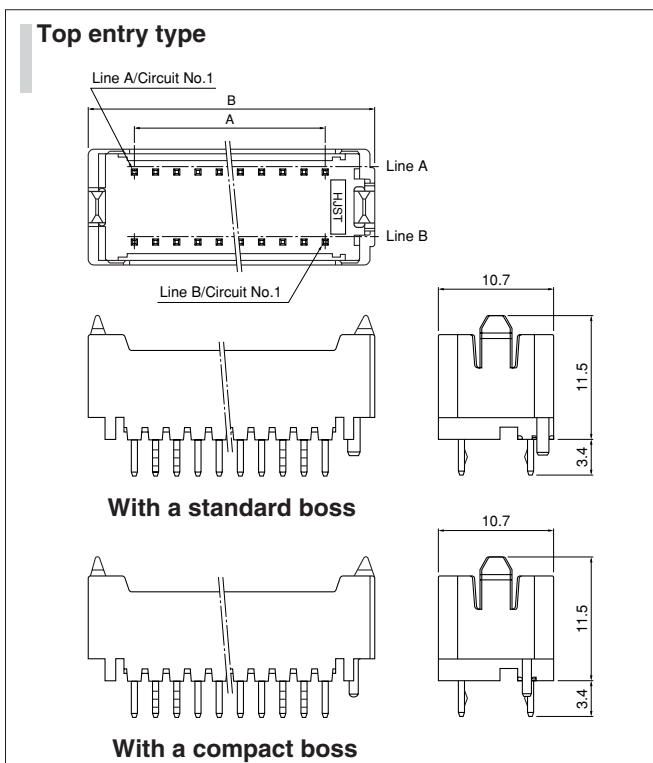
<For reference> As the color identification, the following alphabet shall be put in the underlined part.

For availability, delivery and minimum order quantity, contact JST.

ex. **B10B-KRWHK-()**

M...green H...gray N...brown

Double-row shrouded Header (with locks)



Circuits	Model No.			Dimensions (mm)		Q'ty / box
	Top entry type					
	Without bosses	With a standard boss	With a compact boss	A	B	
10	B10B-KRWHK-F1	B10B-KRWHK-F1-1	B10B-KRWHK-F1-1D	8.0	17.0	364
12	B12B-KRWHK-F1	B12B-KRWHK-F1-1	B12B-KRWHK-F1-1D	10.0	19.0	308
14	B14B-KRWHK-F1	B14B-KRWHK-F1-1	B14B-KRWHK-F1-1D	12.0	21.0	280
16	B16B-KRWHK-F1	B16B-KRWHK-F1-1	B16B-KRWHK-F1-1D	14.0	23.0	252
18	B18B-KRWHK-F1	B18B-KRWHK-F1-1	B18B-KRWHK-F1-1D	16.0	25.0	252
20	B20B-KRWHK-F1	B20B-KRWHK-F1-1	B20B-KRWHK-F1-1D	18.0	27.0	224
22	B22B-KRWHK-F1	B22B-KRWHK-F1-1	B22B-KRWHK-F1-1D	20.0	29.0	196
24	B24B-KRWHK-F1	B24B-KRWHK-F1-1	B24B-KRWHK-F1-1D	22.0	31.0	196
26	B26B-KRWHK-F1	B26B-KRWHK-F1-1	B26B-KRWHK-F1-1D	24.0	33.0	168
28	B28B-KRWHK-F1	B28B-KRWHK-F1-1	B28B-KRWHK-F1-1D	26.0	35.0	168
30	B30B-KRWHK-F1	B30B-KRWHK-F1-1	B30B-KRWHK-F1-1D	28.0	37.0	168
32	B32B-KRWHK-F1	B32B-KRWHK-F1-1	B32B-KRWHK-F1-1D	30.0	39.0	140

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, gray

RoHS compliance This product displays (LF)(SN) on a label.

Note: 1. The products listed above are supplied packed in tray.

2. Not UL/CSA/TÜV approved.

3. The applicable holder is "KRWHK-() () -1" only.

<For reference> As the color identification, the following alphabet shall be put in the underlined part.

For availability, delivery and minimum order quantity, contact JST.

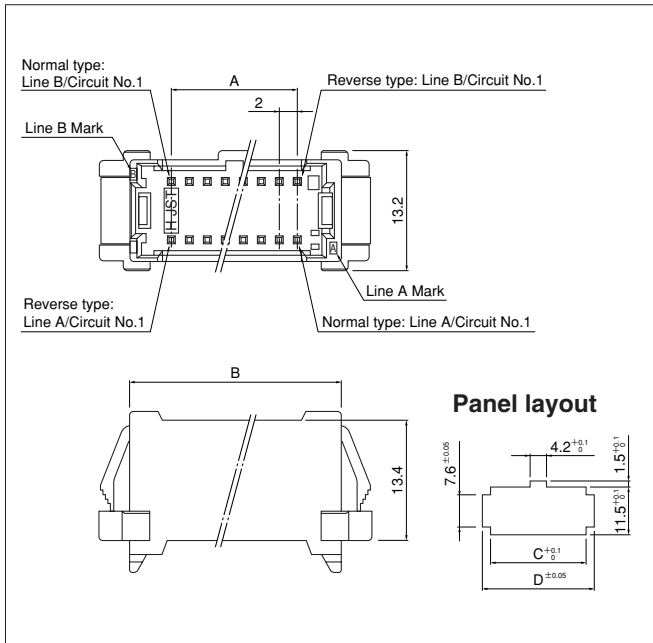
ex. **B10B-KRWHK-F1-()**

H...gray Y...yellow R...red N...brown

M...green K...black

KR FAMILY SERIES/KRW·KR·PHN·TR CONNECTOR

TRW connector (Unit for wire-to-wire connection)



Circuits	Model No.		Dimensions (mm)				Q'ty / box
	Normal type	Reverse type	A	B	C	D	
16	BU16P-TRW-P-H	BU16P-TRW-PC-H	14.0	23.5	23.9	27.5	100
18	BU18P-TRW-P-H	BU18P-TRW-PC-H	16.0	25.5	25.9	29.5	100
20	BU20P-TRW-P-H	BU20P-TRW-PC-H	18.0	27.5	27.9	31.5	50
22	BU22P-TRW-P-H	BU22P-TRW-PC-H	20.0	29.5	29.9	33.5	50
24	BU24P-TRW-P-H	BU24P-TRW-PC-H	22.0	31.5	31.9	35.5	50
26	BU26P-TRW-P-H	BU26P-TRW-PC-H	24.0	33.5	33.9	37.5	50
28	BU28P-TRW-P-H	BU28P-TRW-PC-H	26.0	35.5	35.9	39.5	50
30	BU30P-TRW-P-H	BU30P-TRW-PC-H	28.0	37.5	37.9	41.5	50
32	BU32P-TRW-P-H	BU32P-TRW-PC-H	30.0	39.5	39.9	43.5	50

Material and Finish

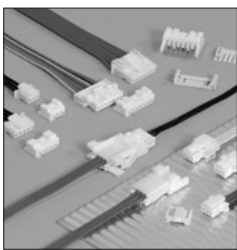
Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0, gray

RoHS compliance This product displays (LF)(SN) on a label.

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

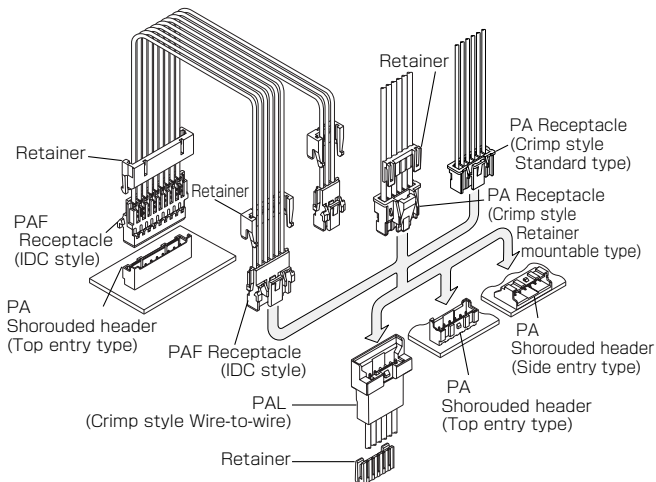
ex. **BU16P-TRW-P-H**

H...gray Y...yellow R...red N...brown
S...natural (white) M...green



PA FAMILY SERIES/PA•PAF•PAL CONNECTOR

2.0mm pitch/Wire-to-board (Crimp style/IDC) / Wire-to-wire (Crimp style/IDC)



Based upon wire-to-board crimp style PA connectors, the PA series family of connector have been expanded to meet the requirement of complex wire harness of 2.0mm pitch connectors with secure locking mechanism thanks to the additional line up of wire-to-board IDC style PAF connectors and wire-to-wire crimp style PAL connectors.

- **Secure locking device**
- **Interchangeable between crimp and IDC socket**
- **Secondary retainers**
- **Harness variation**

PA connector (Standard type, Retainer mountable type)

- **Highly reliable contact**
- **Insertion guide mechanism**
- **Flanged press pin**

PAF connector

- **The industry's first secure lock ID connectors**
- **Metallic strain relief**
- **Retainer with four locking points**

PAL connector

- **The industry's first wire to wire 2.0mm pitch retainer mountable type connector.**
- **Either with or without panel lock can be selected according to application.**

Standards

Recognized E60389

Certified LR20812

Specifications

PA Connector (Standard type)

- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 10m Ω max.
After environmental testing/ 20m Ω max.
- Insulation resistance: Initial/ 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: AWG #28 to #22
- Applicable PC board thickness: 1.6mm

PA Connector (Retainer mountable type)

- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 100V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 15m Ω max.
After environmental testing/ 25m Ω max.
- Insulation resistance: Initial/ 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: AWG #28 to #22

PAF Connector

- Current rating: 1.0A AC, DC (AWG #26)
- Voltage rating: 100V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 15m Ω max.
After environmental testing/ 25m Ω max.
- Insulation resistance: Initial/ 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: UL1061(Contact JST for details regarding other UL wires.)
AWG #26
Conductor/ 7 strands, tin-coated annealed copper
Insulation O.D./ 0.9 to 1.0mm

PAL Connector

- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 100V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 15m Ω max.
After environmental testing/ 25m Ω max.
- Insulation resistance: Initial/ 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: AWG #28 to #22
- Applicable panel thickness : 0.5 to 2.0mm

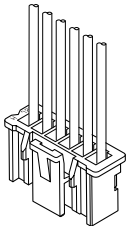
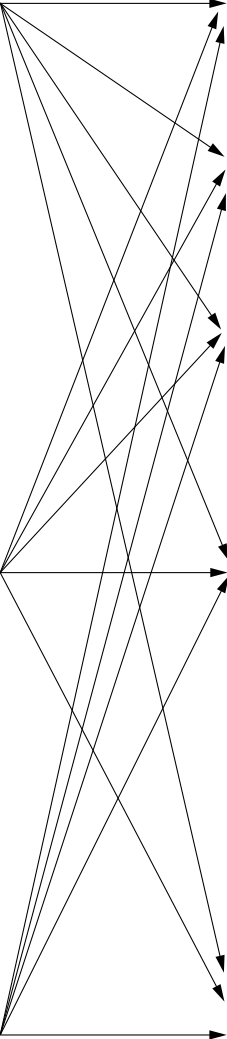
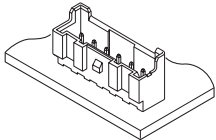
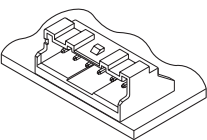
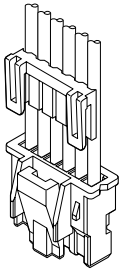
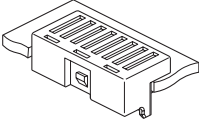
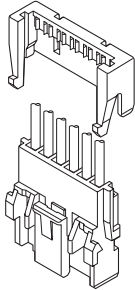
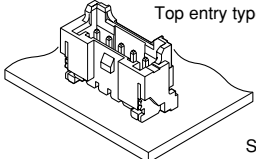
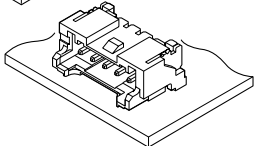
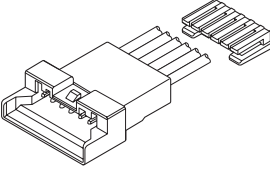
* Compliant with RoHS.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

PA FAMILY SERIES /PA•PAF•PAL CONNECTOR

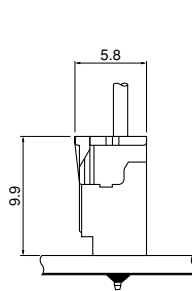
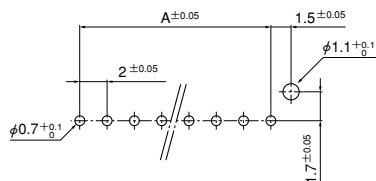
List of combinations

Crimp style Standard type 	<u>Contact</u> SPHD-001T-P0.5 SPHD-002T-P0.5 <u>Housing</u> PAP-()V-S		<u>Shrouded header</u> B()B-PASK B()B-PASK-1 S()B-PASK-2	Top entry type  Side entry type 
Crimp style Retainer mountable type 	<u>Contact</u> SPA-001T-P0.5 <u>Housing</u> PARP-()V <u>Retainer</u> PMS-()V-S		<u>Shrouded header</u> BE()B-PASK	Bottom type 
Insulation displacement type 	<u>Receptacle</u> ()PAF-6S <u>Retainer</u> PAFS-()V-S		<u>Shrouded header</u> BM()B-PASS BM()B-PASS-1 SM()B-PASS SM()B-PASS-1	SMT type Top entry type  Side entry type 
			<u>Contact</u> SPAL-001T-P0.5 SPAL-002T-P0.5 <u>Receptacle housing</u> PALR-()V(F) <u>Retainer</u> PMS-()V-S	Wire to wire Connectors 

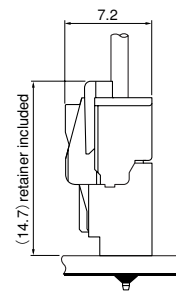
PA FAMILY SERIES /PA•PAF•PAL CONNECTOR

Through-hole type

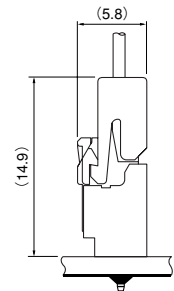
Top entry type



PA Receptacle
(Standard type)
+
PA Header

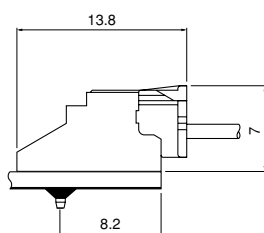
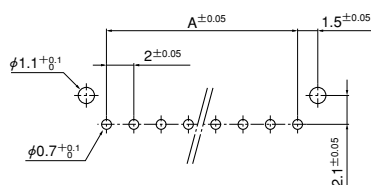


PA Receptacle
(Retainer mountable type)
+
PA Header

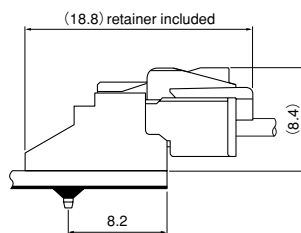


PAF Receptacle
+
PA Header

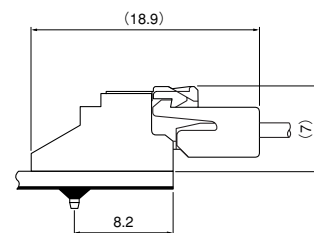
Side entry type



PA Receptacle
(Standard type)
+
PA side entry type header

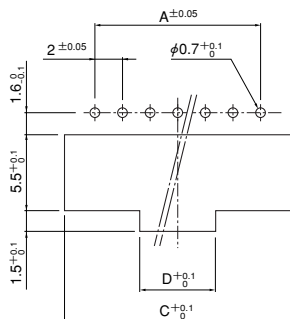


PA Receptacle
(Retainer mountable type)
+
PA side entry type header

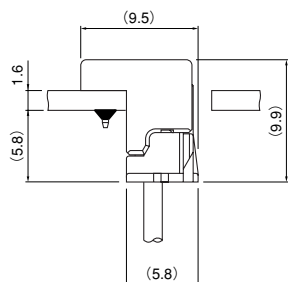


PAF Receptacle
+
PA side entry type header

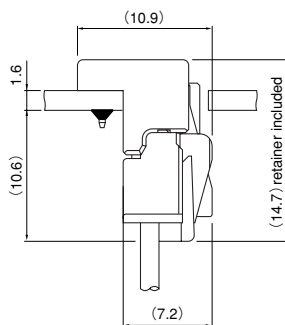
Bottom type



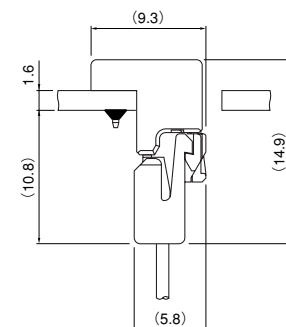
Note: C and D dimensions; Refer to the header bottom type.



PA Receptacle
(Standard type)
+
PA bottom type header

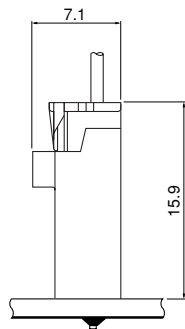
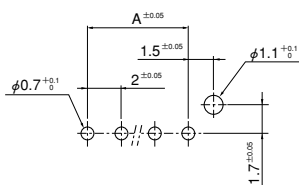


PA Receptacle
(Retainer mountable type)
+
PA bottom type header

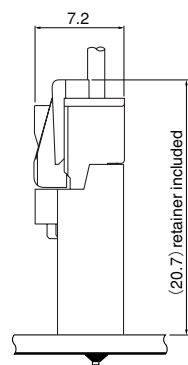


PAF Receptacle
+
PA bottom type header

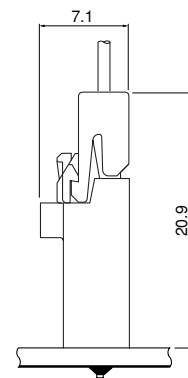
High box type



PA Receptacle
(Standard type)
+
PA high box type header



PA Receptacle
(Retainer mountable type)
+
PA high box type header



PAF Receptacle
+
PA high box type header

Note: 1. The above figure is the figure viewed from the connector mounting side.

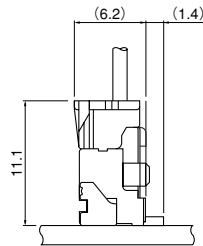
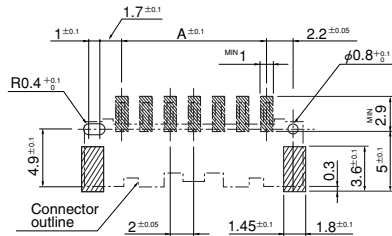
2. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.

3. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

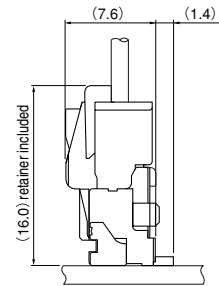
PA FAMILY SERIES /PA•PAF•PAL CONNECTOR

SMT type

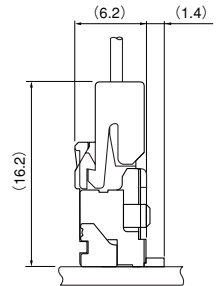
Top entry type



PA Receptacle
(Standard type)
+
PA Header

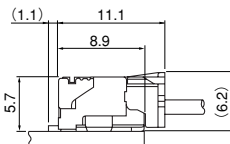
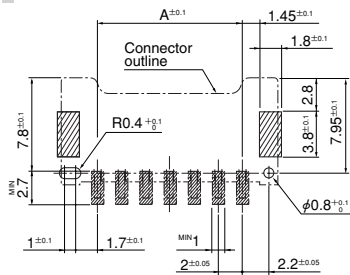


PA Receptacle
(Retainer mountable type)
+
PA Header

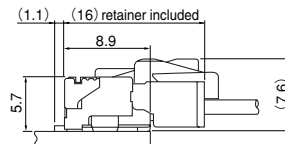


PAF Receptacle
+
PA Header

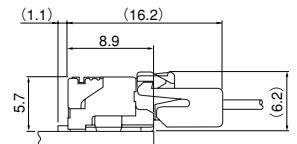
Side entry type



PA Receptacle
(Standard type)
+
PA side entry type header



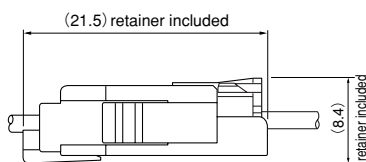
PA Receptacle
(Retainer mountable type)
+
PA side entry type header



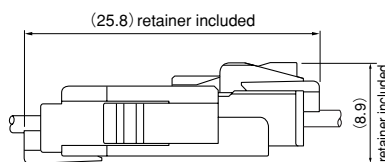
PAF Receptacle
+
PA side entry type header

Note: 1. The above figure is the figure viewed from the connector mounting side.
2. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
3. The dimensions above should serve as a guideline. Contact JST for details.

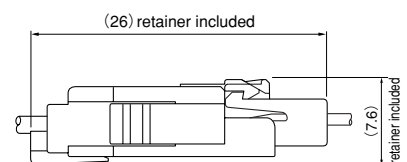
Wire-to-wire



PA Receptacle
(Standard type)
+
PAL Receptacle



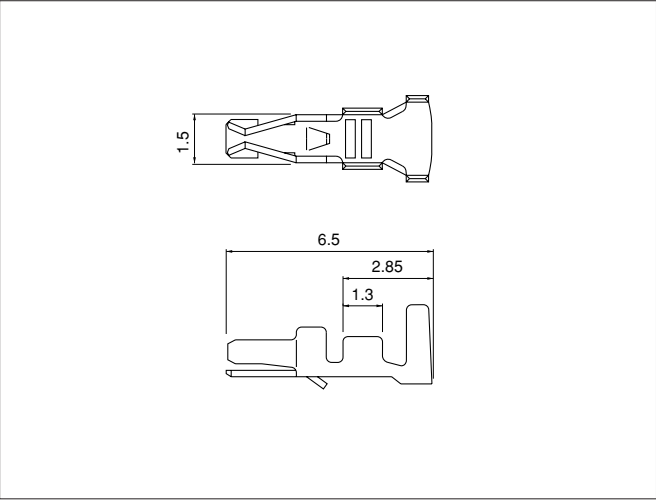
PA Receptacle
(Retainer mountable type)
+
PAL Receptacle



PAF Receptacle
+
PAL Receptacle

PA FAMILY SERIES /PA CONNECTOR (Crimp style Standard type)

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SPHD-001T-P0.5	0.13~0.33	26~22	1.0~1.5	8,000
SPHD-002T-P0.5	0.08~0.21	28~24	0.9~1.5	8,000

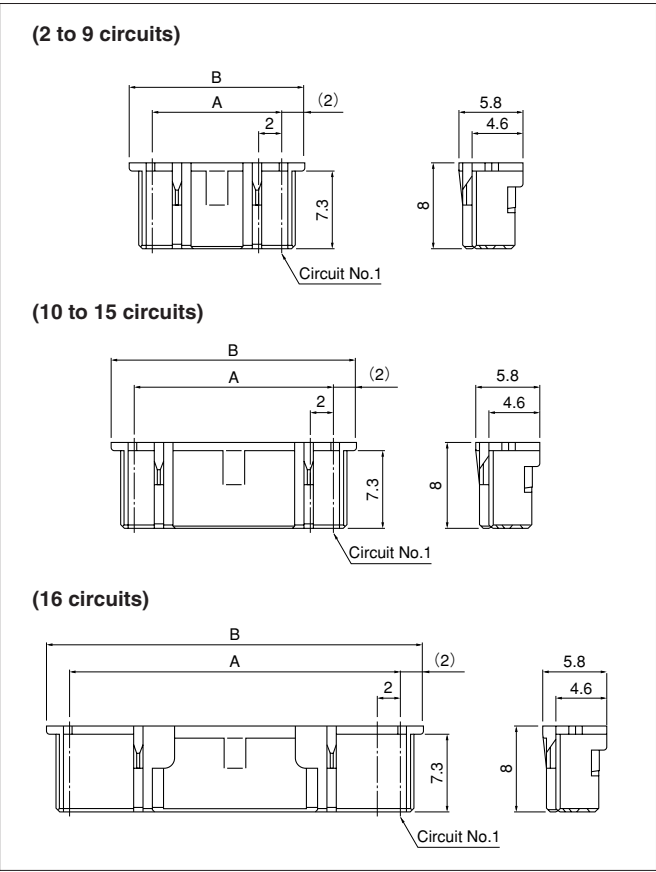
Material and Finish				
Phosphor bronze, tin-plated (reflow treatment)				

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPHD-002T-P0.5	AP-K2N	MKS-L-10	MK/SPHD-002-05	APLMK SPHD002-05
		*MKS-SC-10	SC/SPHD-002-05	APLSC SPHD002-05
SPHD-001T-P0.5		MKS-L-10	MK/SPHD-001-05	APLMK SPHD001-05
		*MKS-SC-10	SC/SPHD-001-05	APLSC SPHD001-05

Note: *Strip-crimp applicator

Housing



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	PAP-02V-S	2.0	6.0	1,000
3	PAP-03V-S	4.0	8.0	1,000
4	PAP-04V-S	6.0	10.0	1,000
5	PAP-05V-S	8.0	12.0	1,000
6	PAP-06V-S	10.0	14.0	1,000
7	PAP-07V-S	12.0	16.0	1,000
8	PAP-08V-S	14.0	18.0	1,000
9	PAP-09V-S	16.0	20.0	1,000
10	PAP-10V-S	18.0	22.0	1,000
11	PAP-11V-S	20.0	24.0	1,000
12	PAP-12V-S	22.0	26.0	1,000
13	PAP-13V-S	24.0	28.0	1,000
14	PAP-14V-S	26.0	30.0	1,000
15	PAP-15V-S	28.0	32.0	1,000
16	PAP-16V-S	30.0	34.0	1,000

Material				
PA 66, UL94V-0, natural (white)				

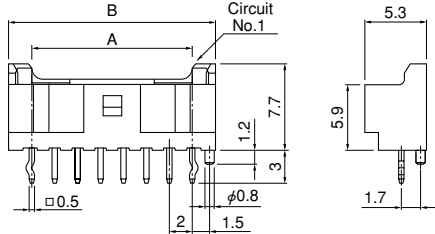
RoHS compliance

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

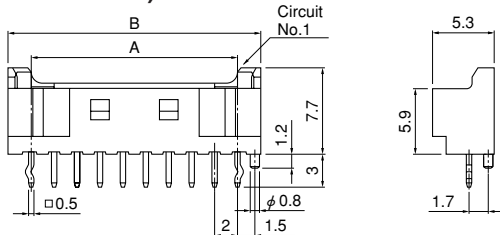
ex. **PAP-02V-S**
S...natural (white)
K...black R...red E...blue M...green O...orange N...brown
P...purple PK...pink Y...yellow L...lemon yellow FY...vivid yellow
LE...light blue H...gray TR...tomato red

Through-hole type shrouded header

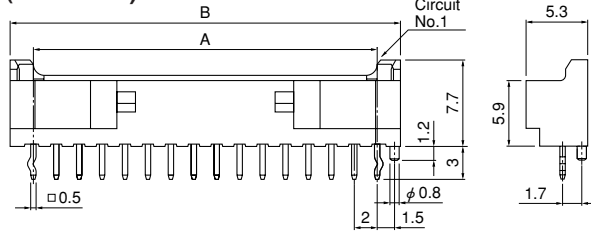
Top entry type (2 to 9 circuits)



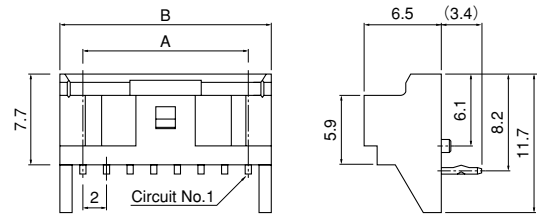
(10 to 15 circuits)



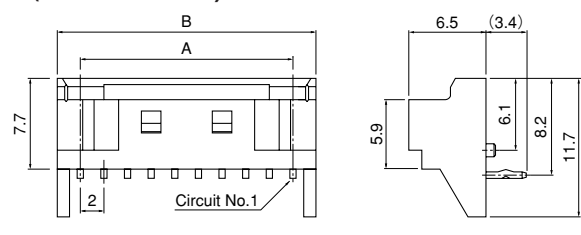
(16 circuits)



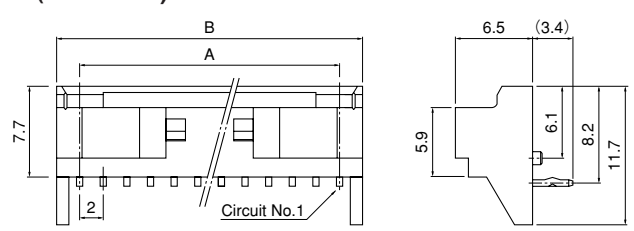
Side entry type (2 to 9 circuits)



(10 to 15 circuits)



(16 circuits)



Top entry type

Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Without a boss	With a boss	A	B	
2 (Note1)	B02B-PAFYK-A	B02B-PAFYK-1A	2.0	6.0	1,000
2	B02B-PASK	B02B-PASK-1	2.0	6.0	1,000
3	B03B-PASK	B03B-PASK-1	4.0	8.0	1,000
4	B04B-PASK	B04B-PASK-1	6.0	10.0	1,000
5	B05B-PASK	B05B-PASK-1	8.0	12.0	500
6	B06B-PASK	B06B-PASK-1	10.0	14.0	500
7	B07B-PASK	B07B-PASK-1	12.0	16.0	500
8	B08B-PASK	B08B-PASK-1	14.0	18.0	500
9	B09B-PASK	B09B-PASK-1	16.0	20.0	500
10	B10B-PASK	B10B-PASK-1	18.0	22.0	500
11	B11B-PASK	B11B-PASK-1	20.0	24.0	250
12	B12B-PASK	B12B-PASK-1	22.0	26.0	250
13	B13B-PASK	B13B-PASK-1	24.0	28.0	250
14	B14B-PASK	B14B-PASK-1	26.0	30.0	250
15	B15B-PASK	B15B-PASK-1	28.0	32.0	250
16	B16B-PASK	B16B-PASK-1	30.0	34.0	250

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
 Wafer: Glass-filled PBT, UL94V-0, natural (white)
 (Note1) PA 66, UL94V-0, vivid yellow

RoHS compliance This product displays (LF)(SN) on a label.

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
 For availability, delivery and minimum order quantity, contact JST.

ex. **B02B-PASK**

S...natural (white)
 K...black R...red E...blue M...green O...orange N...brown
 P...purple PK...pink Y...yellow L...lemon yellow FY...vivid yellow
 LE...light blue H...gray TR...tomato red

Side entry type

Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	S02B-PASK-2	2.0	6.0	1,000
3	S03B-PASK-2	4.0	8.0	1,000
4	S04B-PASK-2	6.0	10.0	500
5	S05B-PASK-2	8.0	12.0	500
6	S06B-PASK-2	10.0	14.0	500
7	S07B-PASK-2	12.0	16.0	250
8	S08B-PASK-2	14.0	18.0	250
9	S09B-PASK-2	16.0	20.0	250
10	S10B-PASK-2	18.0	22.0	250
11	S11B-PASK-2	20.0	24.0	250
12	S12B-PASK-2	22.0	26.0	250
13	S13B-PASK-2	24.0	28.0	200
14	S14B-PASK-2	26.0	30.0	200
15	S15B-PASK-2	28.0	32.0	200
16	S16B-PASK-2	30.0	34.0	200

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
 Wafer: Glass-filled PBT, UL94V-0, natural (white)

RoHS compliance This product displays (LF)(SN) on a label.

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
 For availability, delivery and minimum order quantity, contact JST.

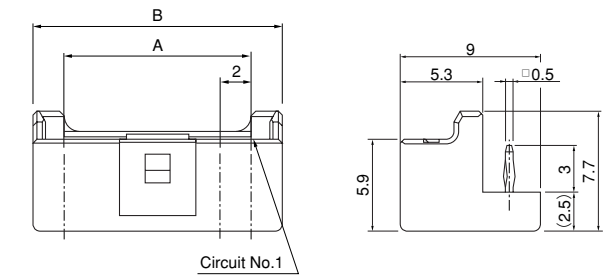
ex. **S03B-PASK-2**

S...natural (white)
 K...black R...red E...blue M...green O...orange N...brown
 P...purple PK...pink Y...yellow L...lemon yellow LE...light blue
 H...gray TR...tomato red

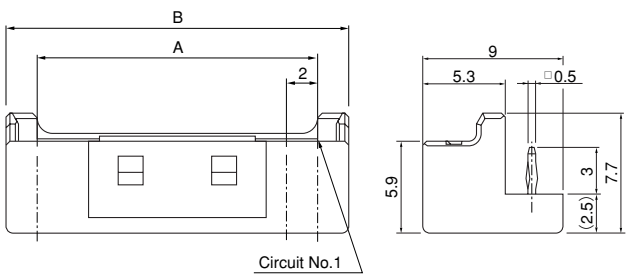
Through-hole type shrouded header

Bottom type

(5, 8 circuits)



(11, 12 circuits)



Circuits	Model No.	Dimensions(mm)				Q'ty / bag
		A	B	C	D	
5	BE05B-PASK	8.0	12.0	12.4	5.5	300
8	BE08B-PASK	14.0	18.0	18.4	5.5	200
11	BE11B-PASK	20.0	24.0	24.4	12.0	150
12	BE12B-PASK	22.0	26.0	26.4	12.0	150

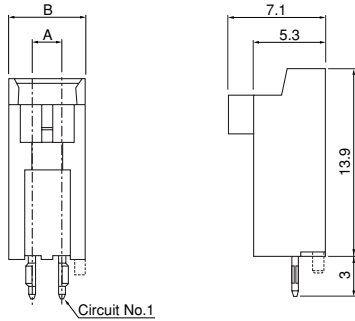
Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PBT, UL94V-0, natural

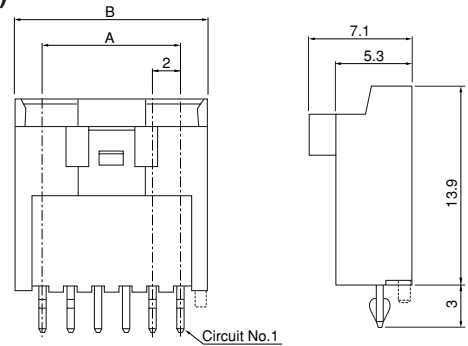
RoHS compliance This product displays (LF)(SN) on a label.
Note: C and D dimensions; Refer to the PCB layout bottom type (P3).

Shrouded header <High box type>

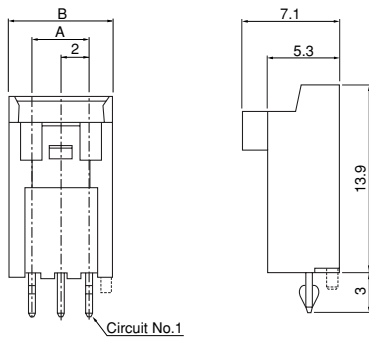
(2 circuits)



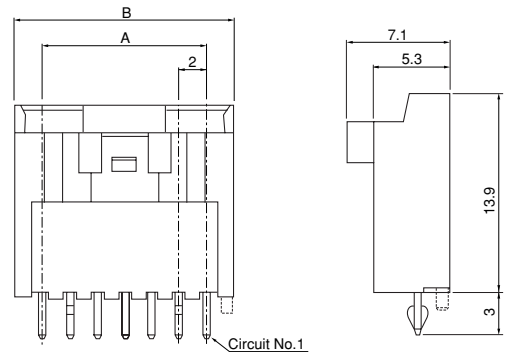
(5, 6 circuits)



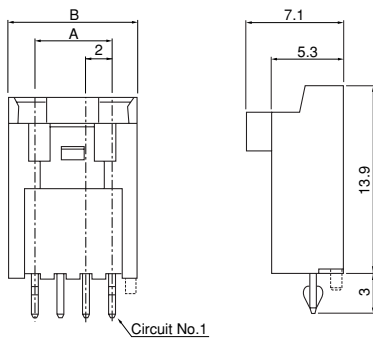
(3 circuits)



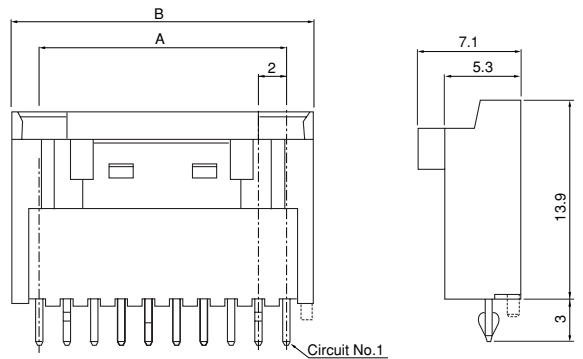
(7 to 9 circuits)



(4 circuits)



(10 to 12, 15 circuits)



Circuits	Model No.		Dimensions(mm)		Q'ty / box
	Without a boss	With a boss	A	B	
2	BH02B-PASK	BH02B-PASK-1	2.0	6.0	900
3	BH03B-PASK	BH03B-PASK-1	4.0	8.0	675
4	BH04B-PASK	BH04B-PASK-1	6.0	10.0	525
5	BH05B-PASK	BH05B-PASK-1	8.0	12.0	450
6	BH06B-PASK	BH06B-PASK-1	10.0	14.0	375
7	BH07B-PASK	BH07B-PASK-1	12.0	16.0	325
8	BH08B-PASK	BH08B-PASK-1	14.0	18.0	300
9	BH09B-PASK	BH09B-PASK-1	16.0	20.0	250
10	BH10B-PASK	BH10B-PASK-1	18.0	22.0	225
11	BH11B-PASK	BH11B-PASK-1	20.0	24.0	225
12	BH12B-PASK	BH12B-PASK-1	22.0	26.0	200
15	BH15B-PASK	BH15B-PASK-1	28.0	32.0	150

Material and Finish

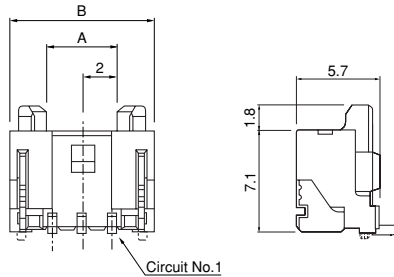
Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PBT, UL94V-0, natural (white)

RoHS compliance This product displays (LF)(SN) on a label.

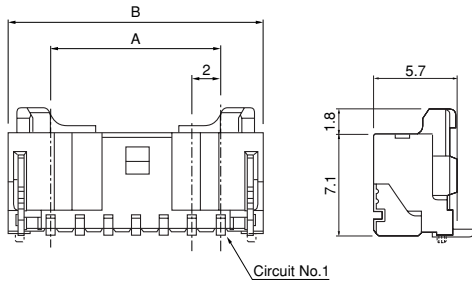
SMT type shrouded header

Top entry type

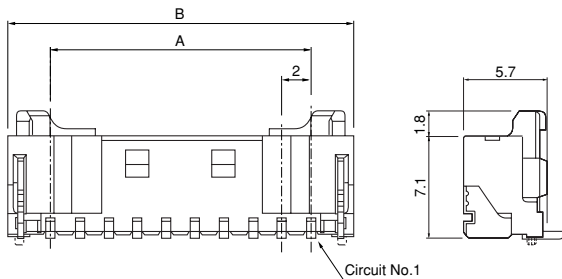
(2 to 3 circuits)



(4 to 9 circuits)

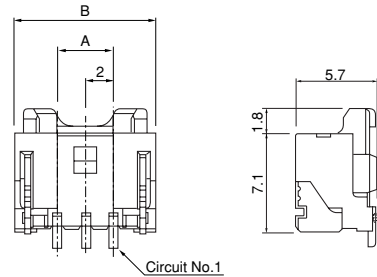


(10 to 13, 15 circuits)

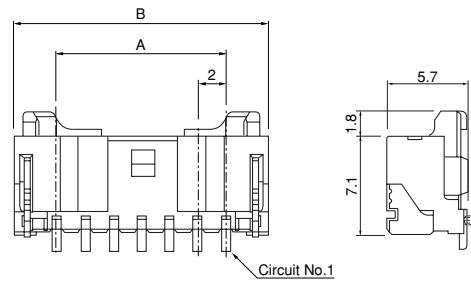


Side entry type

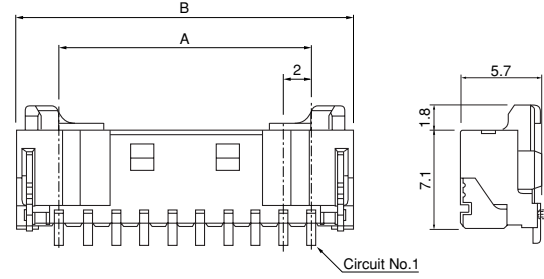
(2 to 3 circuits)



(4 to 9 circuits)



(10 to 13, 15 circuits)



Top entry type

Circuits	Model No.		Dimensions(mm)		Q'ty / reel
	Without a boss	With a boss	A	B	
2	BM02B-PASS-(*)	BM02B-PASS-1-(*)	2.0	8.0	500
3	BM03B-PASS-(*)	BM03B-PASS-1-(*)	4.0	10.0	500
4	BM04B-PASS-(*)	BM04B-PASS-1-(*)	6.0	12.0	500
5	BM05B-PASS-(*)	BM05B-PASS-1-(*)	8.0	14.0	500
6	BM06B-PASS-(*)	BM06B-PASS-1-(*)	10.0	16.0	500
7	BM07B-PASS-(*)	BM07B-PASS-1-(*)	12.0	18.0	500
8	BM08B-PASS-(*)	BM08B-PASS-1-(*)	14.0	20.0	500
9	BM09B-PASS-(*)	BM09B-PASS-1-(*)	16.0	22.0	500
10	BM10B-PASS-(*)	BM10B-PASS-1-(*)	18.0	24.0	500
11	BM11B-PASS-(*)	BM11B-PASS-1-(*)	20.0	26.0	500
12	BM12B-PASS-(*)	BM12B-PASS-1-(*)	22.0	28.0	500
13	BM13B-PASS-(*)	BM13B-PASS-1-(*)	24.0	30.0	500
15	BM15B-PASS-(*)	BM15B-PASS-1-(*)	28.0	34.0	500

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
 Wafer: PA, UL94V-0, natural (ivory)
 Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Note: (*): TF...taping product

TFT...taping product with suction tape.

Side entry type

Circuits	Model No.		Dimensions(mm)		Q'ty / reel
	Without a boss	With a boss	A	B	
2	SM02B-PASS-(*)	SM02B-PASS-1-(*)	2.0	8.0	1,000
3	SM03B-PASS-(*)	SM03B-PASS-1-(*)	4.0	10.0	1,000
4	SM04B-PASS-(*)	SM04B-PASS-1-(*)	6.0	12.0	1,000
5	SM05B-PASS-(*)	SM05B-PASS-1-(*)	8.0	14.0	1,000
6	SM06B-PASS-(*)	SM06B-PASS-1-(*)	10.0	16.0	1,000
7	SM07B-PASS-(*)	SM07B-PASS-1-(*)	12.0	18.0	1,000
8	SM08B-PASS-(*)	SM08B-PASS-1-(*)	14.0	20.0	1,000
9	SM09B-PASS-(*)	SM09B-PASS-1-(*)	16.0	22.0	1,000
10	SM10B-PASS-(*)	SM10B-PASS-1-(*)	18.0	24.0	1,000
11	SM11B-PASS-(*)	SM11B-PASS-1-(*)	20.0	26.0	1,000
12	SM12B-PASS-(*)	SM12B-PASS-1-(*)	22.0	28.0	1,000
13	SM13B-PASS-(*)	SM13B-PASS-1-(*)	24.0	30.0	1,000
15	SM15B-PASS-(*)	SM15B-PASS-1-(*)	28.0	34.0	1,000

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
 Wafer: PA, UL94V-0, natural (ivory)
 Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

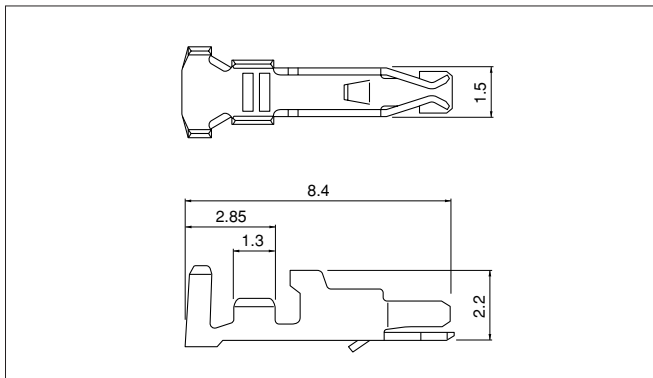
RoHS compliance This product displays (LF)(SN) on a label.

Note: (*): TB...taping product

TBT...taping product with suction tape.

PA FAMILY SERIES /PA CONNECTOR (Crimp style Retainer mountable type)

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SPA-001T-P0.5	0.13~0.33	26~22	0.9~1.5	10,000

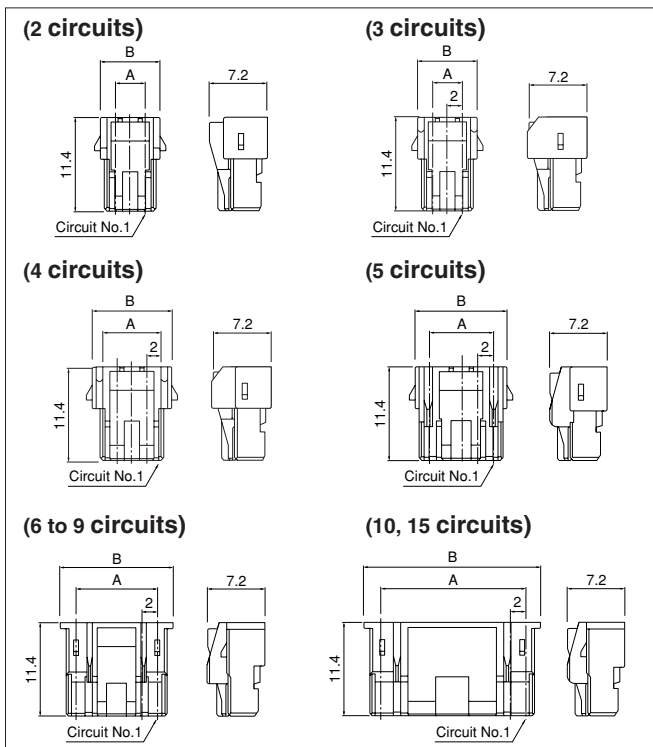
Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPA-001T-P0.5	AP-K2N	MKS-L	MK/SPA-001-05	APLMK SPA001-05
		—	—	—

Housing



Circuits	Model No.	Dimensions(mm)		Q'ty / bag
		A	B	
2	PARP-02V	2.0	5.4	1,000
3	PARP-03V	4.0	7.4	1,000
4	PARP-04V	6.0	9.4	1,000
5	PARP-05V	8.0	11.4	1,000
6	PARP-06V	10.0	14.0	1,000
7	PARP-07V	12.0	16.0	1,000
8	PARP-08V	14.0	18.0	1,000
9	PARP-09V	16.0	20.0	1,000
10	PARP-10V	18.0	22.0	1,000
15	PARP-15V	28.0	32.0	500

Material

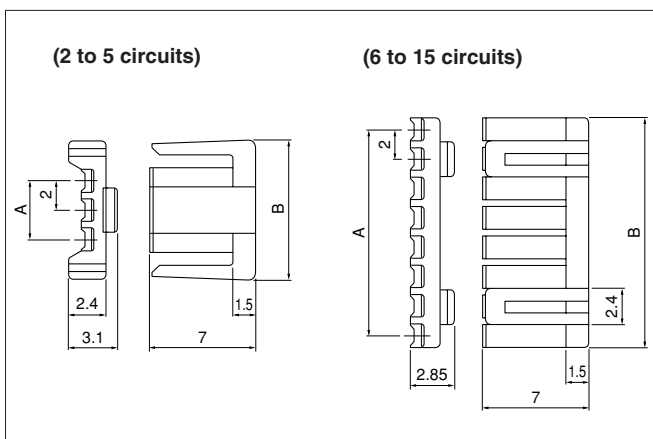
PA 66, UL94V-0, natural (white)

RoHS compliance

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **PARP-02V-oo**
(blank)...natural (white)
R...red E...blue Y...yellow M...green

Retainer



Circuits	Model No.	Dimensions(mm)		Q'ty / bag
		A	B	
2	PMS-02V-S	2.0	7.3	1,000
3	PMS-03V-S	4.0	9.3	1,000
4	PMS-04V-S	6.0	11.3	1,000
5	PMS-05V-S	8.0	13.3	1,000
6	PMS-06V-S	10.0	11.55	1,000
7	PMS-07V-S	12.0	13.55	1,000
8	PMS-08V-S	14.0	15.55	1,000
9	PMS-09V-S	16.0	17.55	1,000
10	PMS-10V-S	18.0	19.55	1,000
15	PMS-15V-S	28.0	29.55	1,000

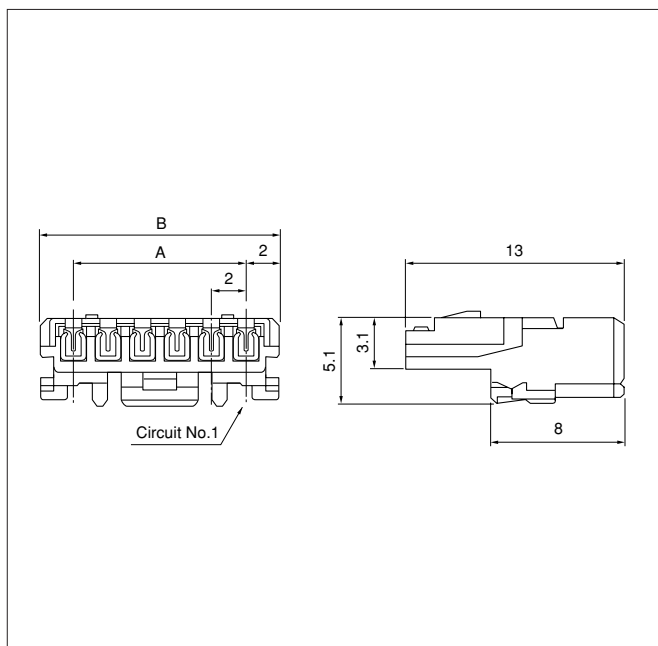
Material

Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance

PA FAMILY SERIES /PAF CONNECTOR (Insulation displacement type)

Receptacle



Circuits	Model No.	Dimensions(mm)		Q'ty / box
		A	B	
2	02PAF-6S	2.0	6.0	1,000
3	03PAF-6S	4.0	8.0	1,000
4	04PAF-6S	6.0	10.0	500
5	05PAF-6S	8.0	12.0	500
6	06PAF-6S	10.0	14.0	500
7	07PAF-6S	12.0	16.0	500
8	08PAF-6S	14.0	18.0	250
9	09PAF-6S	16.0	20.0	250
10	10PAF-6S	18.0	22.0	250
11	11PAF-6S	20.0	24.0	250
12	12PAF-6S	22.0	26.0	250
13	13PAF-6S	24.0	28.0	250
14	14PAF-6S	26.0	30.0	250
15	15PAF-6S	28.0	32.0	250
*16	16PAF-6S	30.0	34.0	250

Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)

Housing: PA 66, UL94V-0, natural (white)

RoHS compliance

Note: *Marked product is not UL/CSA approved.

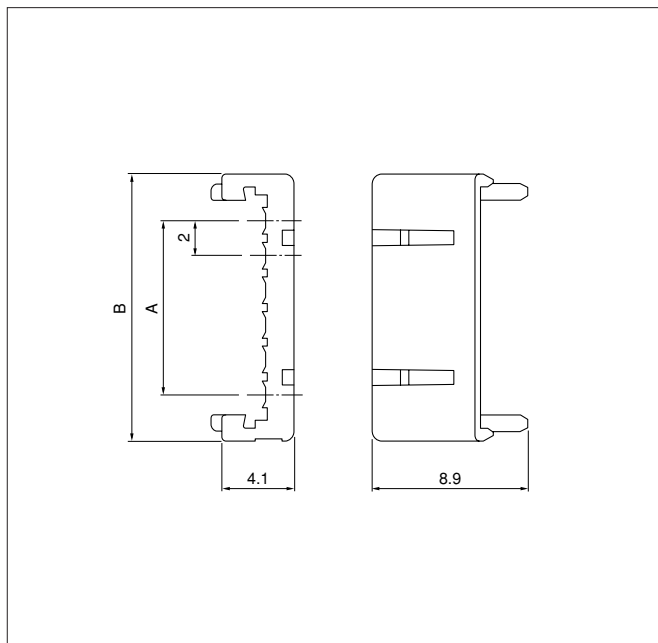
<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **02PAF-6S**

S...natural (white)

R...red E...blue M...green Y...yellow

Retainer



Circuits	Model No.	Dimensions(mm)		Q'ty / bag
		A	B	
2	PAFS-02V-S	2.0	7.4	1,000
3	PAFS-03V-S	4.0	9.4	1,000
4	PAFS-04V-S	6.0	11.4	1,000
5	PAFS-05V-S	8.0	13.4	1,000
6	PAFS-06V-S	10.0	15.4	1,000
7	PAFS-07V-S	12.0	17.4	1,000
8	PAFS-08V-S	14.0	19.4	1,000
* 9	PAFS-09V-S	16.0	21.4	1,000
*10	PAFS-10V-S	18.0	23.4	1,000
*11	PAFS-11V-S	20.0	25.4	1,000
*12	PAFS-12V-S	22.0	27.4	1,000
*13	PAFS-13V-S	24.0	29.4	1,000
*14	PAFS-14V-S	26.0	31.4	1,000
*15	PAFS-15V-S	28.0	33.4	1,000

Material

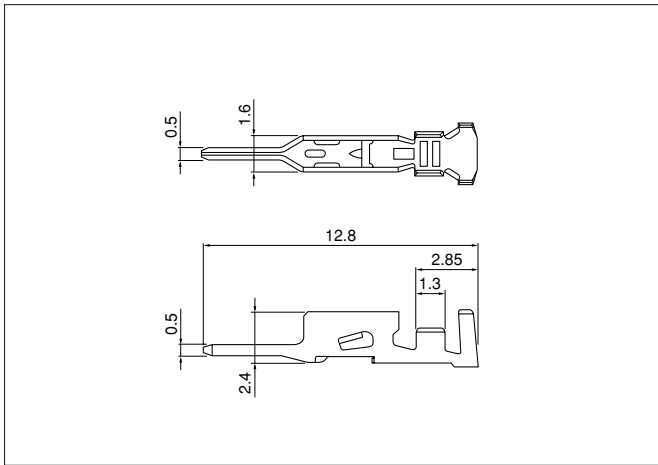
Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance

Note: *Marked products are not UL/CSA approved.

PA FAMILY SERIES /PAL CONNECTOR (Wire-to-wire type)

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SPAL-001T-P0.5	0.13~0.33	26~22	1.0~1.5	10,000
SPAL-002T-P0.5	0.08~0.21	28~24	0.9~1.5	10,000

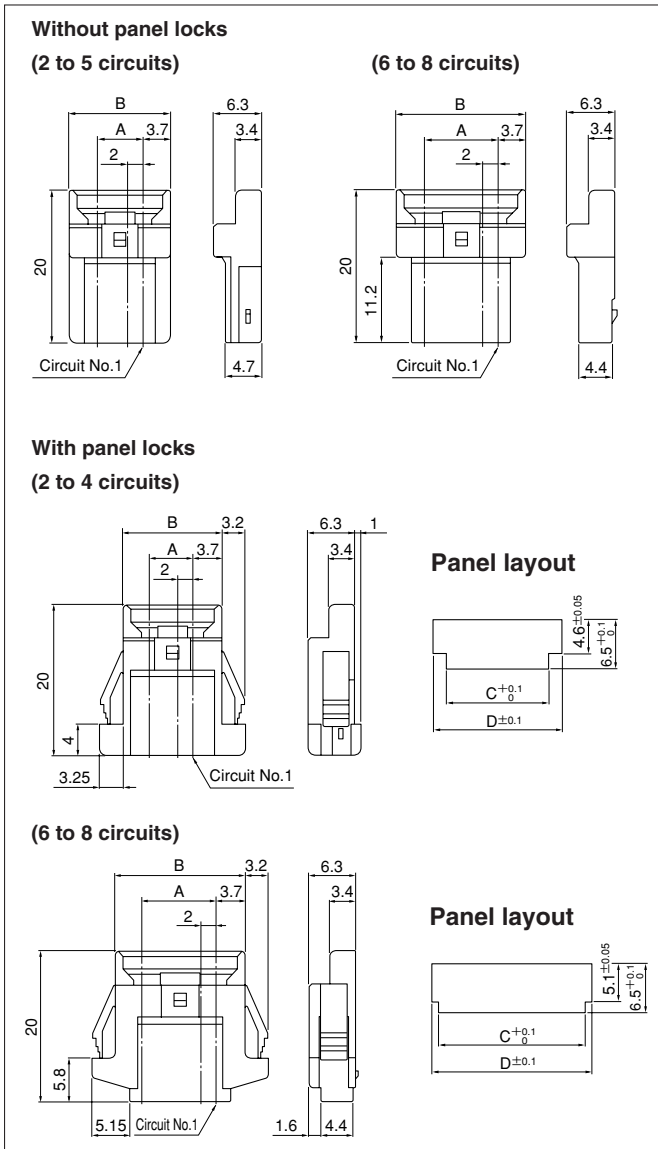
Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPAL-001T-P0.5	AP-K2N	MKS-L	MK/SPAL-001-05	APLMK SPAL001-05
		—	—	—
SPAL-002T-P0.5	AP-K2N	MKS-L	MK/SPAL-002-05	APLMK SPAL002-05
		—	—	—

Housing



Circuits	Model No.	Dimensions(mm)		Q'ty / bag
		A	B	
2	PALR-02VF	2.0	9.4	1,000
3	PALR-03VF	4.0	11.4	1,000
4	PALR-04VF	6.0	13.4	1,000
5	PALR-05VF	8.0	15.4	1,000
6	PALR-06VF	10.0	17.4	1,000
7	PALR-07VF	12.0	19.4	1,000
8	PALR-08VF	14.0	21.4	1,000

Material

PA 66, UL94V-0, natural (white)

RoHS compliance

Circuits	Model No.	Dimensions(mm)				Q'ty / bag
		A	B	C	D	
2	PALR-02V	2.0	9.4	9.8	13.4	1,000
3	PALR-03V	4.0	11.4	11.8	15.4	1,000
4	PALR-04V	6.0	13.4	13.8	17.4	1,000
6	PALR-06V	10.0	17.4	19.8	21.4	1,000
7	PALR-07V	12.0	19.4	21.8	23.4	1,000
8	PALR-08V	14.0	21.4	23.8	25.4	1,000

Material

PA 66, UL94V-0, natural (white)

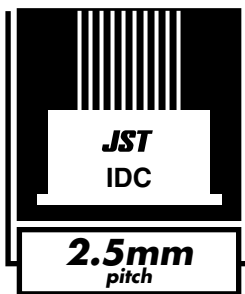
RoHS compliance

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **PALR-02V(F)-oo**
(blank)...natural (white)
R...red E...blue M...green Y...yellow

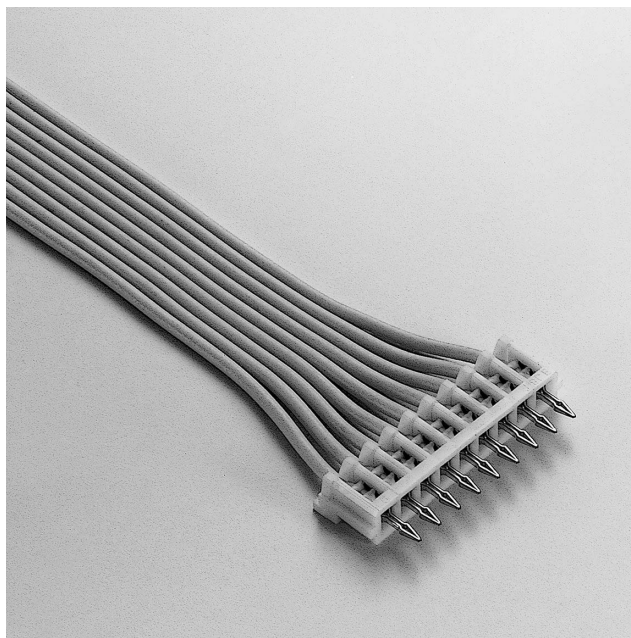
Retainer

Retainers are interchangeable with those of the PA crimp style retainer mountable type.

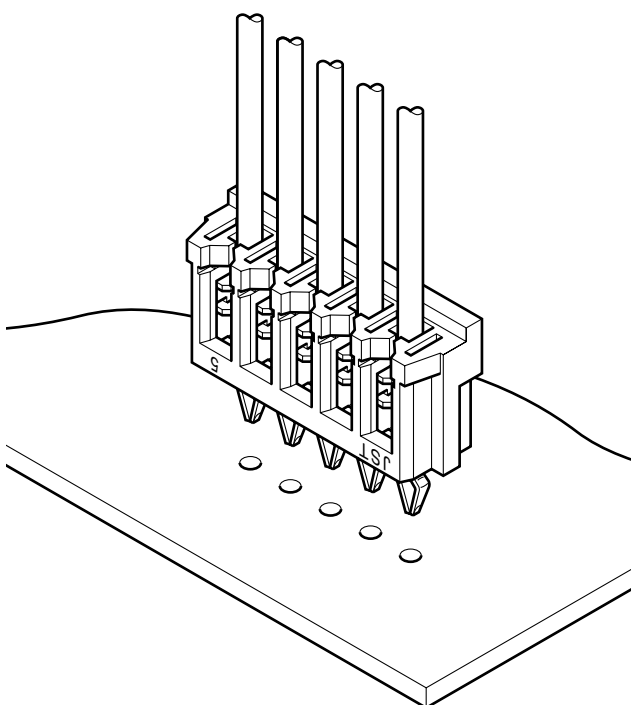


DB CONNECTOR

Board-in Insulation displacement connectors



This is a 2.5mm pitch insulation displacement connector that is soldered directly onto printed circuit boards, with a mounting height of 7.1mm and with a width of 4.1mm. The DB connectors can be used by themselves or in combination with NR or HR connectors.



Features

• Compact and low profile

This is a low profile connector with a mounting height of 7.1mm and a width of 4.1mm.

• Twin U-slot insulation displacement section

The insulation displacement section connected to the wire consists of two tin-plated slots (twin U-slot) for superb reliability.

• Locking solder tail

The contact's compliant solder tail has two locking positions, both of which ensure stable connection once inserted into a printed circuit board. This makes insertion into printed circuit boards easy and reliable.

• Strain relief

The strain relief feature prevents stress due to vibration, impact or bending from effecting the insulation displacement connection. This is accomplished by holding the outside of the wire with the insulation gripping device on the housing. To ensure circuit integrity against vibration and undue tension, ample clearance is provided between the insulation displacement connection and the strain relief.

• Interchangeability

The DB connector has the same board layout and hole size as crimp style SBN and SCN connectors.

Specifications

- Current rating: 2A AC, DC (AWG #24)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: UL1007(Contact JST for details regarding other UL wires.)
AWG #28, #26, #24
Conductor/7 strands, tin-coated
Insulation O.D./1.0 to 1.5mm
- Applicable PC board thickness: 1.6mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

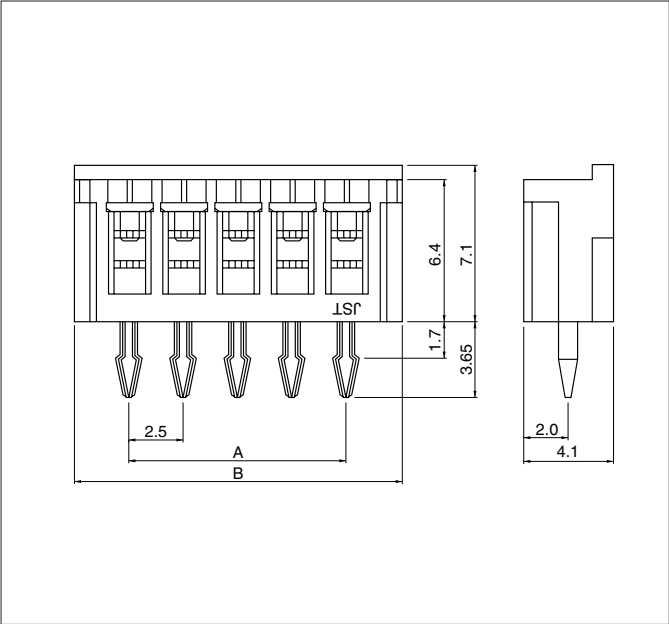
Standards

Recognized E60389

Certified LR20812

DB CONNECTOR

Connector



Cir- cuits	Model No.			Dimensions (mm)		Q'ty / box
	AWG #28 (green)	AWG #26 (natural/white)	AWG #24 (black)	A	B	
2	02DB-8M	02DB-6S	02DB-4K	2.5	7.5	1,000
3	03DB-8M	03DB-6S	03DB-4K	5.0	10.0	1,000
4	04DB-8M	04DB-6S	04DB-4K	7.5	12.5	1,000
5	05DB-8M	05DB-6S	05DB-4K	10.0	15.0	500
6	06DB-8M	06DB-6S	06DB-4K	12.5	17.5	500
7	07DB-8M	07DB-6S	07DB-4K	15.0	20.0	500
8	08DB-8M	08DB-6S	08DB-4K	17.5	22.5	500
9	09DB-8M	09DB-6S	09DB-4K	20.0	25.0	500
10	10DB-8M	10DB-6S	10DB-4K	22.5	27.5	500
11	11DB-8M	11DB-6S	11DB-4K	25.0	30.0	500
12	12DB-8M	12DB-6S	12DB-4K	27.5	32.5	250
13	13DB-8M	13DB-6S	13DB-4K	30.0	35.0	250

Material and Finish

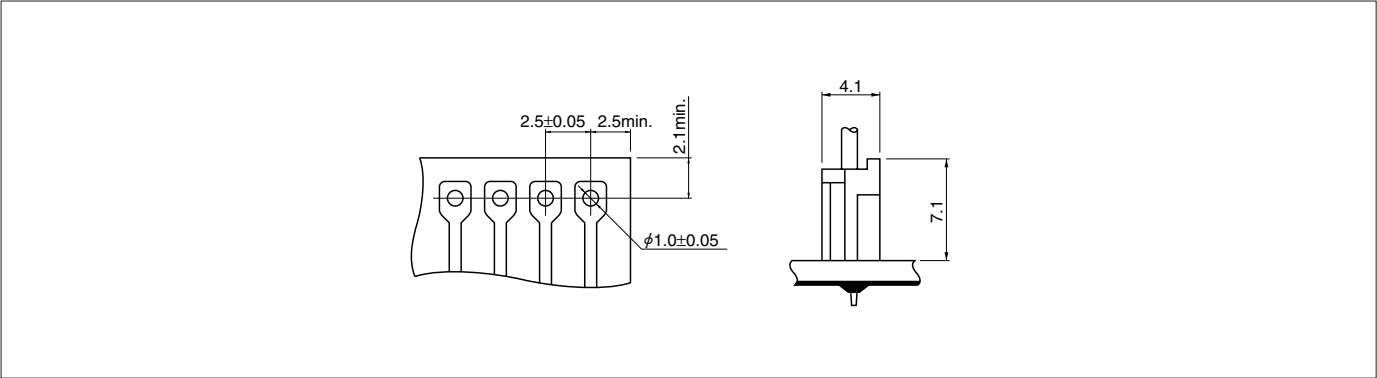
Contact: Phosphor bronze, nickel-undercoated, tin-plated
Housing: PA 66, UL94V-0

RoHS compliance This product displays (LF) on a label.

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **02DB-4K**
S...natural (white) [standard color for AWG#26]
K...black [standard color for AWG#24]
M...green [standard color for AWG#28]

PC board layout (viewed from soldering side) and Assembly layout



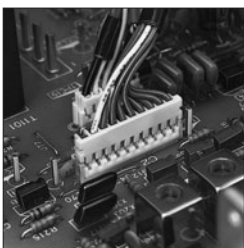
Note:

1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

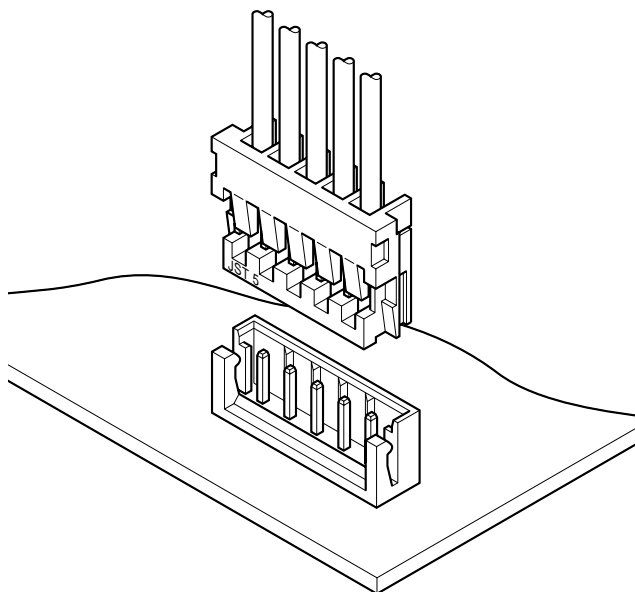
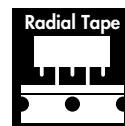
* Pulling or otherwise putting a strain on the harness attached to the connector before the solder has completely cooled can dislodge the connector or cause its misalignment.

* Do not reuse connectors that were previously soldered to and then removed from a PC board.



HR CONNECTOR

2.5mm pitch/Disconnectable Insulation displacement connectors



This 2.5mm pitch connector for printed circuit boards has a thin construction. The in-line method provides high-density capability to the end user.

- Twin U-slot insulation displacement section
- Thin design
- High reliability
- Strain relief
- Interchangeability

Specifications

- Current rating: 2A AC, DC (AWG #24)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,000V AC/minute
- Applicable wire: UL1007(Contact JST for details regarding other UL styles.)
AWG #28, #26, #24
Conductor/7 strands, tin-coated
Insulation O.D./1.0 to 1.5mm
- Applicable PC board thickness: 0.8 to 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

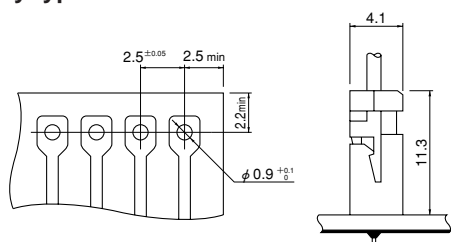
Recognized E60389

Certified LR20812

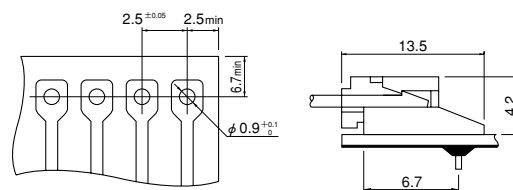
R50082349

PC board layout (viewed from soldering side) and Assembly layout

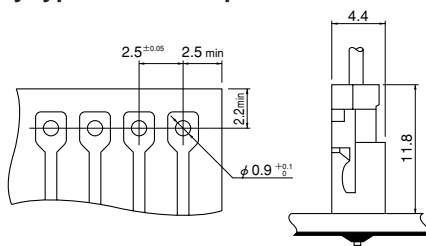
Top entry type



Side entry type



Top entry type on radial-tape

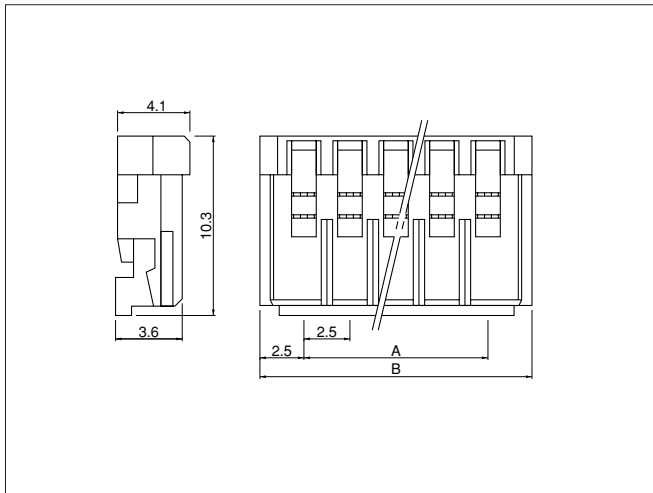


Note: 1. Tolerances are non-cumulative: ± 0.05 mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. If PC boards made of hard material are used, the hole dimensions should be larger. The dimensions above should serve as a guideline. Contact JST for details.

HR CONNECTOR

Receptacle



Circuits	Model No.			Dimensions (mm)		Qty / box
	AWG #28 (green)	AWG #26 (natural/white)	AWG #24 (black)	A	B	
2	02HR-8M-P-N	02HR-6S-P-N	02HR-4K-P-N	2.5	7.5	1,000
3	03HR-8M-P-N	03HR-6S-P-N	03HR-4K-P-N	5.0	10.0	1,000
4	04HR-8M-P-N	04HR-6S-P-N	04HR-4K-P-N	7.5	12.5	1,000
5	05HR-8M-P-N	05HR-6S-P-N	05HR-4K-P-N	10.0	15.0	1,000
6	06HR-8M-P-N	06HR-6S-P-N	06HR-4K-P-N	12.5	17.5	1,000
7	07HR-8M-P-N	07HR-6S-P-N	07HR-4K-P-N	15.0	20.0	500
8	08HR-8M-P-N	08HR-6S-P-N	08HR-4K-P-N	17.5	22.5	500
9	09HR-8M-P-N	09HR-6S-P-N	09HR-4K-P-N	20.0	25.0	500
10	10HR-8M-P-N	10HR-6S-P-N	10HR-4K-P-N	22.5	27.5	500
11	11HR-8M-P-N	11HR-6S-P-N	11HR-4K-P-N	25.0	30.0	500
12	12HR-8M-P-N	12HR-6S-P-N	12HR-4K-P-N	27.5	32.5	500
13	13HR-8M-P-N	13HR-6S-P-N	13HR-4K-P-N	30.0	35.0	250
15	—	15HR-6S-P-N	15HR-4K-P-N	35.0	40.0	250

Material and Finish

Contact: copper alloy, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0

Note: 1. Not TÜV approved.

2. 15HR-6S-P-N and 15HR-4K-P-N are not also UL/CSA approved.

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **02HR-4K-P-N**

standard color AWG#28: M...green, AWG#26: S...natural (white)

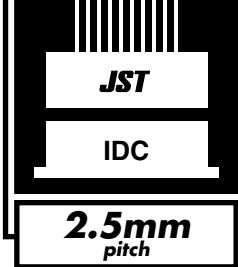
AWG#24: K...black

R...red TR...tomato red Y...yellow L...lemon yellow

N...brown E...blue O...orange

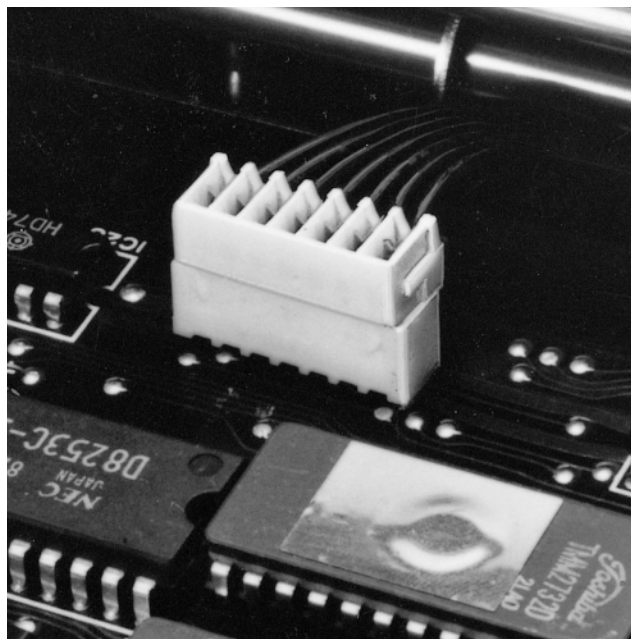
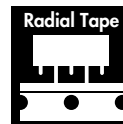
Shrouded header

The shrouded headers are interchangeable with those of the EH and HR crimp style connectors.

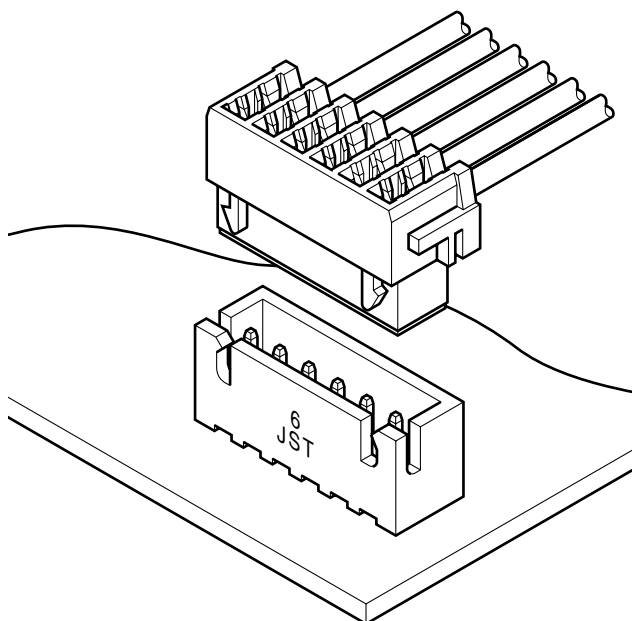


NR CONNECTOR

Disconnectable Insulation displacement connectors



The NR connector is our first insulation displacement connector designed for printed circuit boards and has a justified reputation for reliability. The receptacle accepts both discrete wires and ribbon cables.



Features

• **Twin U-slot insulation displacement section**

The insulation displacement section connected to each wire consists of two tin-plated slots (twin U-slot), which ensures reliable connection.

• **Strain relief**

The housing has a strain relief feature that supports and protects the insulation displacement connection from vibration, shock and bending.

• **Interchangeability**

The shrouded header is interchangeable with the XH connectors (crimp style), the NRD connectors (IDC style), and the JQ connectors (board-to-board style).

Specifications

- Current rating: 2A AC, DC (AWG #24)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: UL1007(Contact JST for details regarding other UL wires.)
AWG #28, #26, #24
Conductor/7 strands, tin-coated
Insulation O.D./1.1 to 1.5mm
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

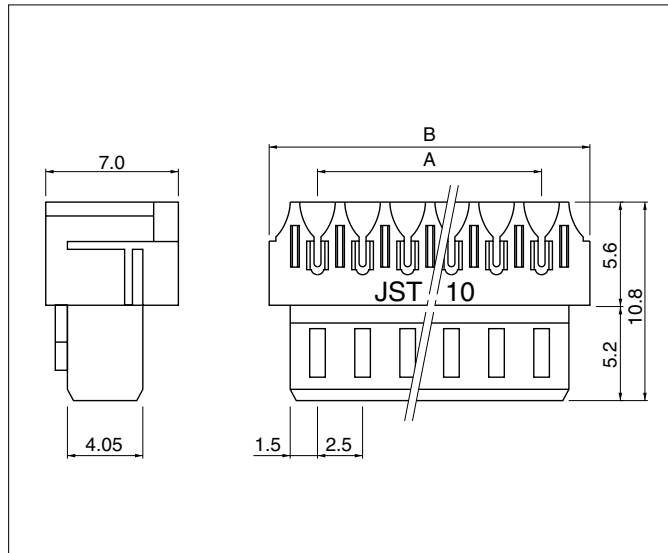
Standards

Recognized E60389

Certified LR20812

R85272

Receptacle



Circuits	Model No.			Dimensions (mm)		Q'ty / box
	AWG #28 (green)	AWG #26 (natural/white)	AWG #24 (black)	A	B	
2	02NR-E8M	02NR-E6S	02NR-E4K	2.5	7.5	1,000
3	03NR-E8M	03NR-E6S	03NR-E4K	5.0	10.0	1,000
4	04NR-E8M	04NR-E6S	04NR-E4K	7.5	12.5	1,000
5	05NR-E8M	05NR-E6S	05NR-E4K	10.0	15.0	500
6	06NR-E8M	06NR-E6S	06NR-E4K	12.5	17.5	500
7	07NR-E8M	07NR-E6S	07NR-E4K	15.0	20.0	500
8	08NR-E8M	08NR-E6S	08NR-E4K	17.5	22.5	500
9	09NR-E8M	09NR-E6S	09NR-E4K	20.0	25.0	250
10	10NR-E8M	10NR-E6S	10NR-E4K	22.5	27.5	250
12	12NR-E8M	12NR-E6S	12NR-E4K	27.5	32.5	200
13	13NR-E8M	13NR-E6S	13NR-E4K	30.0	35.0	200
14	—	14NR-E6S	—	32.5	37.5	200

Material and Finish

Contact: Phosphor bronze, nickel-undercoated, tin-plated
Housing: PA 66, UL94V-0

RoHS compliance This product displays (LF) on a label.

Note: 14NR-E6S is not TÜV approved.

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **02NR-E8M**

K...black [standard color for AWG#24]

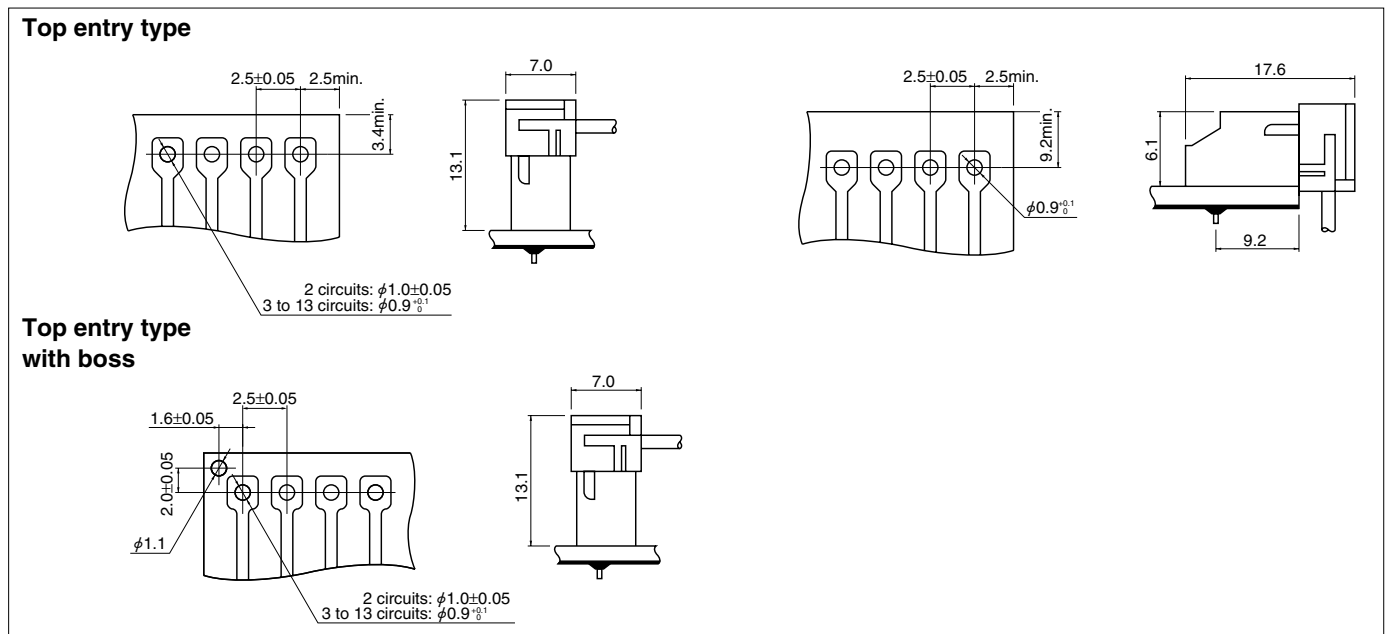
S...natural (white) [standard color for AWG#26]

M...green [standard color for AWG#28]

Shrouded header

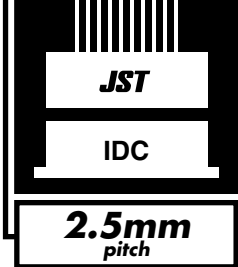
The shrouded headers are interchangeable with the XH crimp style connectors, the NRD insulation displacement connectors, and the JQ board-to-board connectors.

PC board layout (viewed from soldering side) and Assembly layout



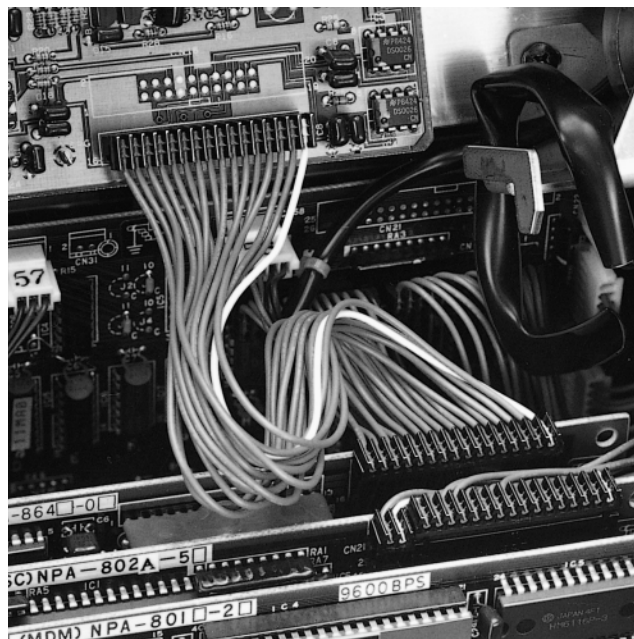
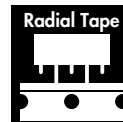
Note:

1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. If printed circuit boards made of hard material are used, the hole dimensions should be larger. The dimensions above should serve as a guideline. Contact JST for details.

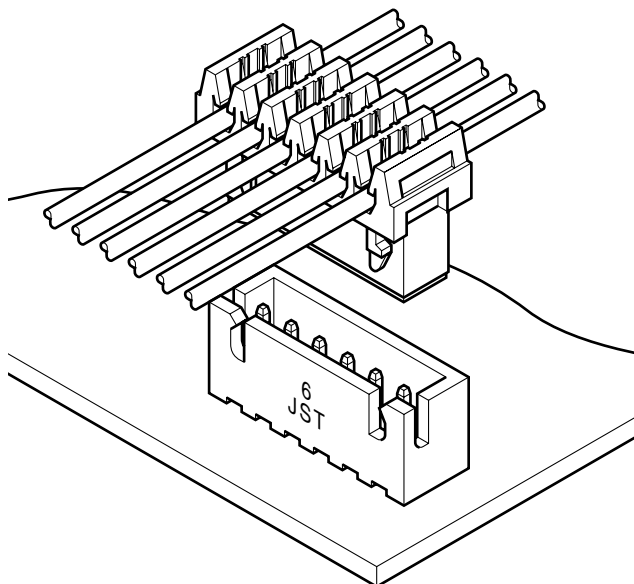


NRD CONNECTOR

Disconnectable Insulation displacement connectors



This 2.5mm pitch insulation displacement connector is another version of the NR connector for printed circuit boards. The NRD connector allows daisy chaining and is very useful in simplifying connection systems in electronic equipment.



Features

• **Daisy chain connection**

The connection shown in the figure is commonly called "daisy chain connection"s or "through connection"s. With these simple connections, many signals can be bussed to many different printed circuit boards. The NRD connector is constructed to allow such daisy chain connections.

• **Reliable insulation displacement construction**

The contact is identical to that of the NR connector which has an established reputation for superb reliability.

• **Strain relief**

Two strain relief sections are provided on the housing to decouple vibration, bending forces and other external stresses from the insulation displacement section.

• **Interchangeability**

The shrouded header is interchangeable with the XH connectors (crimp style), the NR connectors (IDC style), and the JQ connectors (board-to-board style).

Specifications

- Current rating: 2A AC, DC (AWG #24)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: UL1007(Contact JST for details regarding other UL wires.)
AWG #28, #26, #24
Conductor/7 strands, tin-coated
Insulation O.D./1.1 to 1.5mm
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

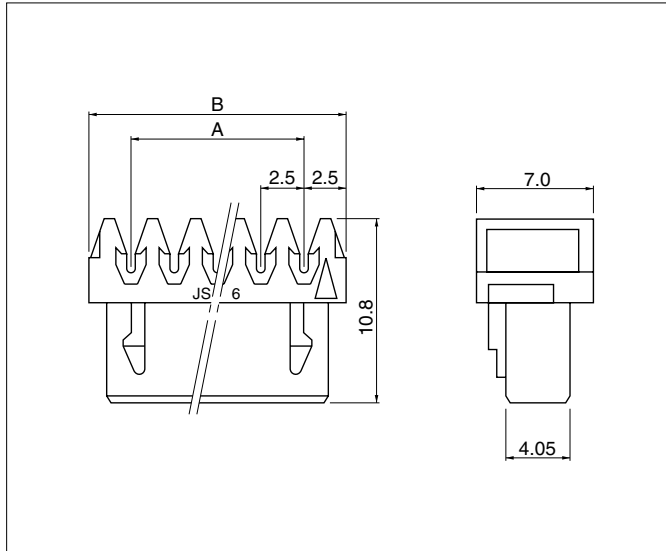
Standards

Recognized E60389

Certified LR20812

R85272

Receptacle



Circuits	Model No.			Dimensions (mm)		Q'ty / box
	AWG #28 (green)	AWG #26 (natural/white)	AWG #24 (black)	A	B	
2	02NR-D8M-P	02NR-D6S-P	02NR-D4K-P	2.5	7.5	1,000
3	03NR-D8M-P	03NR-D6S-P	03NR-D4K-P	5.0	10.0	1,000
4	04NR-D8M-P	04NR-D6S-P	04NR-D4K-P	7.5	12.5	1,000
5	05NR-D8M-P	05NR-D6S-P	05NR-D4K-P	10.0	15.0	500
6	06NR-D8M-P	06NR-D6S-P	06NR-D4K-P	12.5	17.5	500
7	07NR-D8M-P	07NR-D6S-P	07NR-D4K-P	15.0	20.0	500
8	08NR-D8M-P	08NR-D6S-P	08NR-D4K-P	17.5	22.5	500
9	09NR-D8M-P	09NR-D6S-P	09NR-D4K-P	20.0	25.0	250
10	10NR-D8M-P	10NR-D6S-P	10NR-D4K-P	22.5	27.5	250
12	12NR-D8M-P	12NR-D6S-P	12NR-D4K-P	27.5	32.5	250
14	14NR-D8M-P	14NR-D6S-P	14NR-D4K-P	32.5	37.5	200
16	16NR-D8M-P	16NR-D6S-P	16NR-D4K-P	37.5	42.5	200

Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0

RoHS compliance

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **02NR-D8M-P**

K...black [standard color for AWG#24]

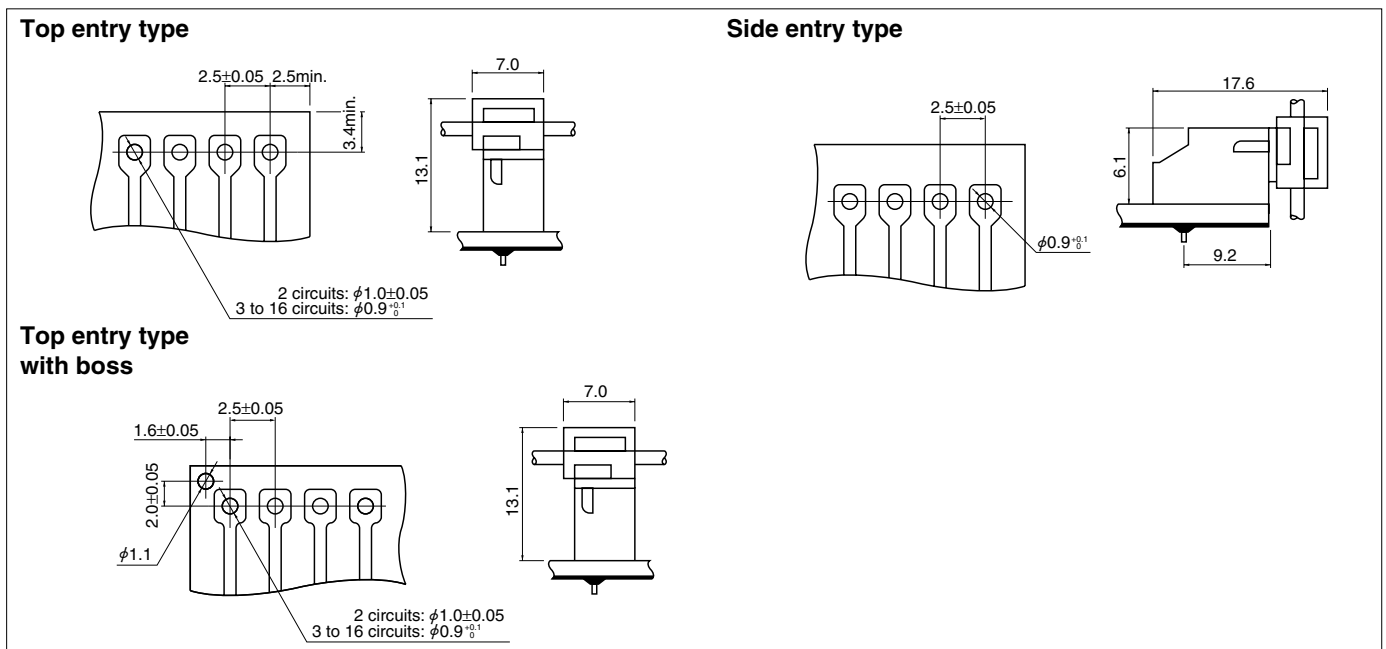
S...natural (white) [standard color for AWG#26]

M...green [standard color for AWG#28]

Shrouded header

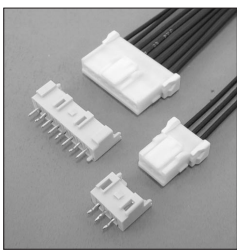
The shrouded headers are interchangeable with the XH connectors (crimp style), the NR connectors (IDC style), and the JQ connectors (board-to-board).

PC board layout (viewed from soldering side) and Assembly layout



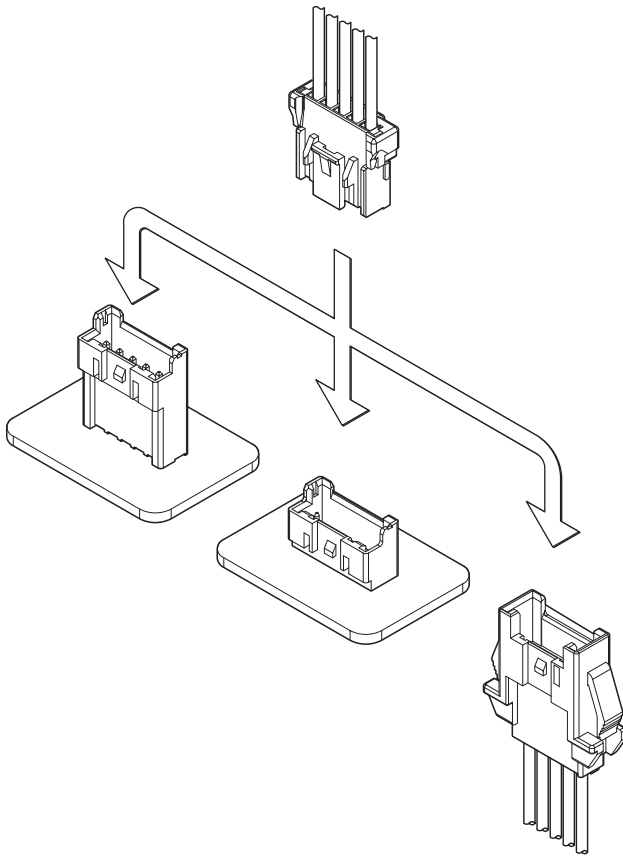
Note:

1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. If PC boards made of hard material are used, the hole dimensions should be larger. The dimensions above should serve as a guideline. Contact JST for details.



XAF CONNECTOR

2.5 mm pitch/Wire-to-board (IDC disconnectable style)/Wire-to-wire (IDC disconnectable style)



XAF connector is an insulation displacement socket connector which is compatible with the existing XA connector crimp housing (plug housing). The dipping type, SMT type, and high box type headers or the receptacle housings used for wire-to-wire connection can be prepared as the mated counterpart of XAF connector, and the wide range of connection style can be provided depending on the application.

- **Secure locking structure**
- **Low insertion force**
- **Insertion guide mechanism**
- **Metallic strain relief**
- **Retainer with four locking points**
- **Twin U-slot for high reliability**
- **Interchangeability**

Specifications

- Current rating: 3 A AC, DC max. (AWG #22)
- Voltage rating: 150 V AC, DC max.
- Temperature range: -40°C to +105°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 10 mΩ max.
After environmental tests/ 20 mΩ max.
- Insulation resistance: 1,000 MΩ min.
- Withstanding voltage: 1,000 VAC/minute
- Applicable wire: UL10002 (Contact JST for details regarding other UL styles.)
AWG #22
Conductor/ 7 strands,
tin-coated annealed copper
Insulation O.D./ 1.0 to 1.5 mm

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

* Compliant with RoHS.

Standards

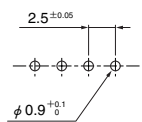
 Recognized E60389

XAF CONNECTOR

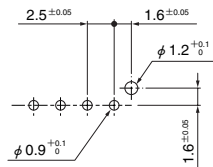
<Through-hole type>

Top entry type • High box type

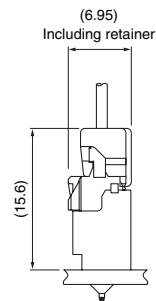
•Without boss



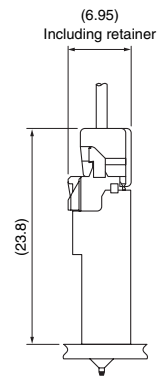
•With boss



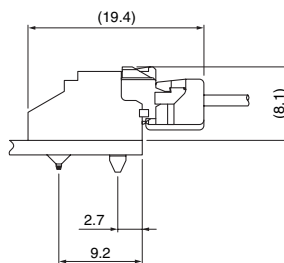
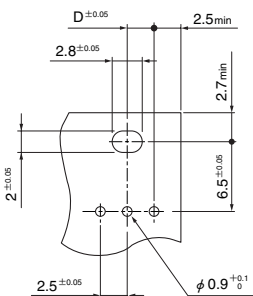
•Top entry type



•High box type



Side entry type

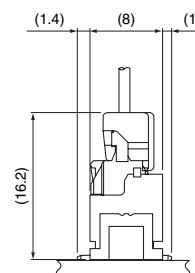
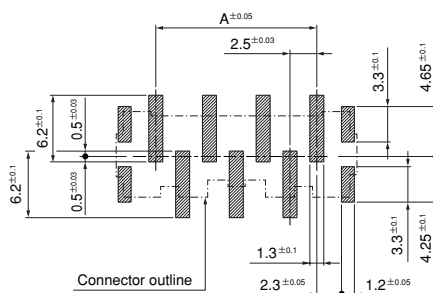


Circuits	Dimensions D (mm)
2	1.25
3	2.50
4	3.75
5	5.00
6	6.25
7	7.50
8	8.75
9	10.00
10	11.25
11	12.50
12	13.75
13	15.00
14	16.25

Note: 1. The above figure is the figure viewed from the connector mounting side.
2. Tolerances are non-cumulative: ± 0.05 mm for all centers.
3. Hole dimensions differ according to the type of PC board and piercing method.
The dimensions above should serve as a guideline. Contact JST for details.

<SMT type>

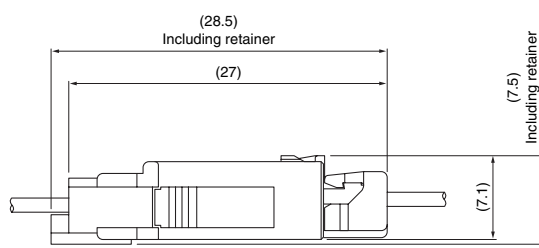
Top entry type



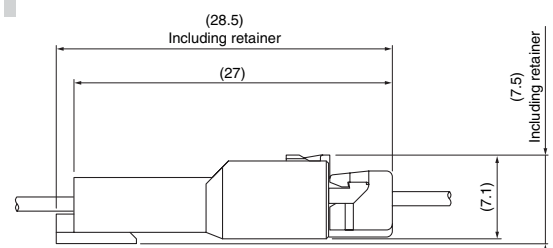
Note: 1. The above figure is the figure viewed from the connector mounting side.
2. Tolerances are non-cumulative: ± 0.05 mm for all centers.
The dimensions above should serve as a guideline. Contact JST for details.

<Wire-to-wire>

With panel lock

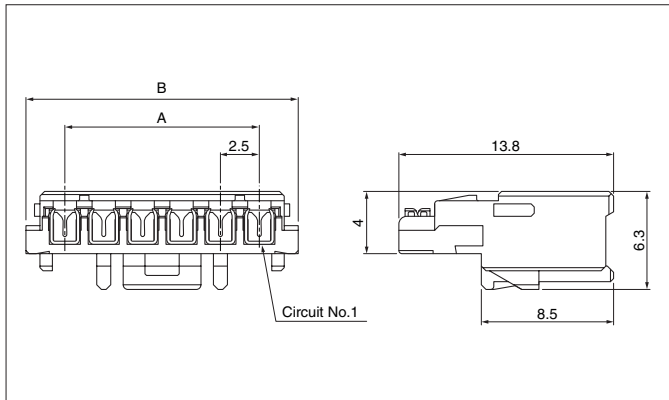


Without panel lock



XAF CONNECTOR

Socket

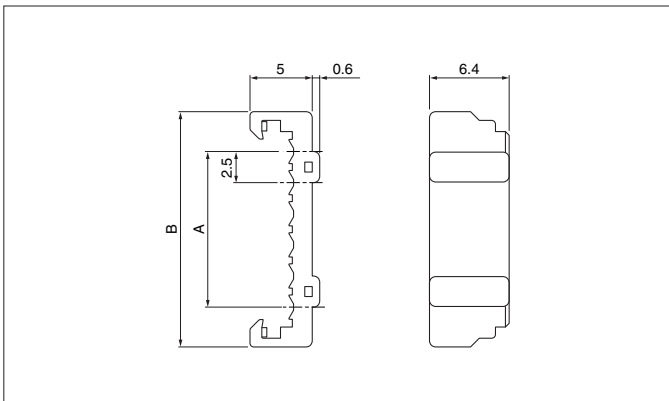


Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	02XAF-2S	2.5	7.5	1,000
3	03XAF-2S	5.0	10.0	1,000
4	04XAF-2S	7.5	12.5	800
5	05XAF-2S	10.0	15.0	600
6	06XAF-2S	12.5	17.5	600
8	08XAF-2S	17.5	22.5	400
10	10XAF-2S	22.5	27.5	300
20	20XAF-2S	47.5	52.5	150

Material and Finish				
Contact: Copper alloy, tin-plated (reflow treatment)				
Housing: PA 66, UL94V-0, natural (white)				

RoHS compliance

Retainer



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	XAFS-02V-S	2.5	8.9	1,000
3	XAFS-03V-S	5.0	11.4	1,000
4	XAFS-04V-S	7.5	13.9	1,000
5	XAFS-05V-S	10.0	16.4	1,000
6	XAFS-06V-S	12.5	18.9	1,000
8	XAFS-08V-S	17.5	23.9	1,000
10	XAFS-10V-S	22.5	28.9	1,000
20	XAFS-20V-S	47.5	53.9	500

Material				
Glass-filled PA 66, UL94V-0, natural (ivory)				

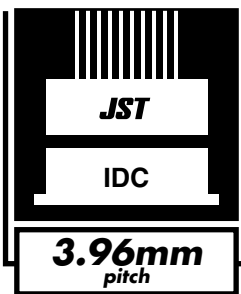
RoHS compliance

Shrouded header

The shrouded headers are interchangeable with those of the XA crimp style connectors.

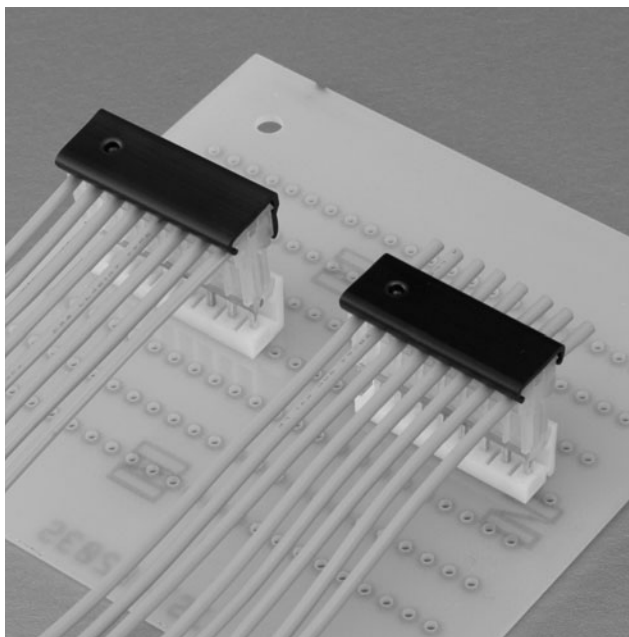
Housing & Pin contact (Wire-to-wire)

The housings and the pin contacts are interchangeable with those of the XA wire-to-wire connectors.

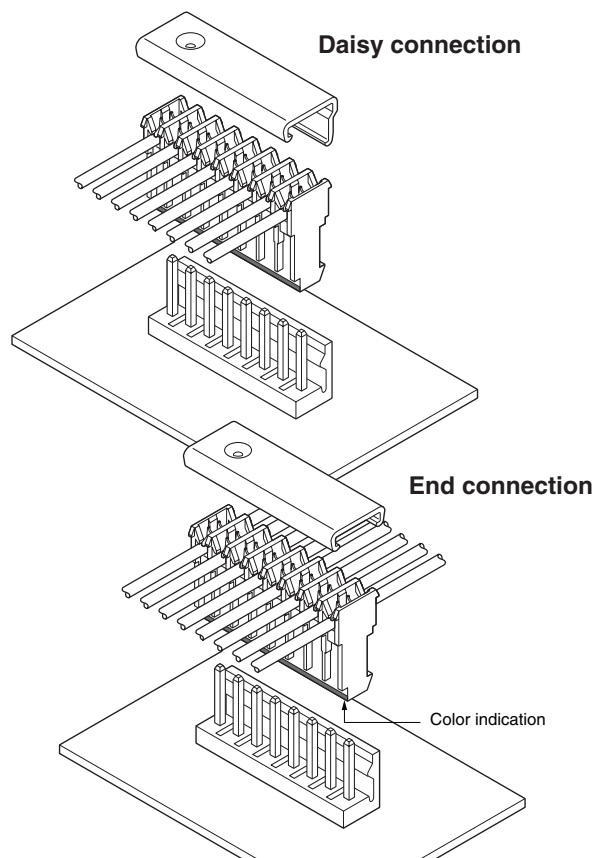


VR CONNECTOR

Disconnectable Insulation displacement connectors



This 3.96mm pitch insulation displacement connector is used with printed circuit boards. Since the connector can accommodate 18 AWG wires and has a large pitch, it is ideal for connecting power supply circuits.



Features

• ***Twin U-slot insulation displacement section***

The insulation displacement section connected to each wire consists of two tin-plated slots (twin U-slots), which ensures reliable connection.

• ***Two types of connections***

This receptacle can be used for both daisy chain (through) connections and end connections. The end connections can be made from either direction.

Specifications

- Current rating: 7 A AC, DC (AWG #18)
 - Voltage rating: 250 V AC, DC
 - Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
 - Contact resistance: Initial value/ 10 mΩ max.
After environmental tests/ 20 mΩ max.
 - Insulation resistance: 1,000 MΩ min.
 - Withstanding voltage: 1,500 VAC/minute
 - Applicable wire: UL1007(Contact JST for details regarding other UL wires.)
AWG #26, #24, #22, #20, #18
Conductor construction/
AWG #26 to #22: 7 strands, tin-coated
AWG #20: 7 and 26 strands, tin-coated
AWG #18: 34 and 43 strands
Insulation O.D./1.3 to 2.1 mm
 - Applicable PC board thickness: 0.8 to 1.6 mm
- * Temperature Range:
The aforementioned temperature range of this connector is described in JST Standard Product Specification.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Compliant with RoHS.

Note:

Do not branch in parallel current which exceeds the rated current. If branched in parallel, current imbalance or other problems may develop. If it is absolutely necessary to branch a large current in parallel, design the circuits without causing imbalance and provide an extra margin for each circuit.

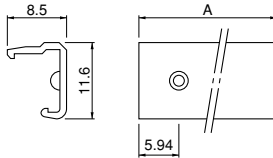
Standards

Recognized E60389

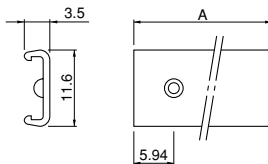
Certified LR20812

Cover

For end connection



For daisy connection



Cir- cuits	Model No.		Dimensions A (mm)	Q'ty / box
	For end connection	For daisy connection		
2	VRC-02E	VRC-02D	7.92	1,000
3	VRC-03E	VRC-03D	11.88	1,000
4	VRC-04E	VRC-04D	15.84	500
5	VRC-05E	VRC-05D	19.80	500
6	VRC-06E	VRC-06D	23.76	500
8	VRC-08E	VRC-08D	31.68	250
10	—	VRC-10D	39.60	200
12	—	VRC-12D	47.52	200
Material				

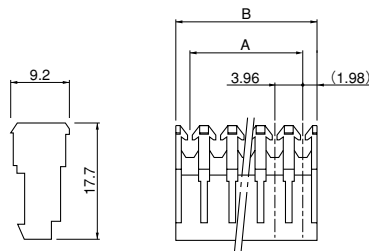
Polyvinyl chloride, UL94V-0 (black)

RoHS compliance

Note:

1. The use of this cover keeps the terminated part from dust.
2. Contact JST if cover is required.

Receptacle



Cir- cuits	Model No.					Dimensions (mm)		Q'ty / bag
	AWG #26 (natural/white)	AWG #24 (black)	AWG #22 (red)	AWG #20 (brown)	AWG #18 (orange)	A	B	
2	02VR-6S	02VR-4K	02VR-2R	02VR-AN	02VR-BO	3.96	7.92	2,000
3	03VR-6S	03VR-4K	03VR-2R	03VR-AN	03VR-BO	7.92	11.88	1,000
4	04VR-6S	04VR-4K	04VR-2R	04VR-AN	04VR-BO	11.88	15.84	1,000
5	05VR-6S	05VR-4K	05VR-2R	05VR-AN	05VR-BO	15.84	19.80	1,000
6	06VR-6S	06VR-4K	06VR-2R	06VR-AN	06VR-BO	19.80	23.76	1,000
8	08VR-6S	08VR-4K	08VR-2R	08VR-AN	08VR-BO	27.72	31.68	500
9	09VR-6S	09VR-4K	09VR-2R	09VR-AN	09VR-BO	31.68	35.64	500
10	10VR-6S	10VR-4K	10VR-2R	10VR-AN	10VR-BO	35.64	39.60	500
12	12VR-6S	12VR-4K	12VR-2R	12VR-AN	12VR-BO	43.56	47.52	250
15	15VR-6S	15VR-4K	15VR-2R	15VR-AN	15VR-BO	55.44	59.40	250

Material and Finish

Contact: Brass, Copper-undercoated, tin-plated (reflow treatment)
Housing: PA 66, UL94V-2

RoHS compliance This product displays (LF)(SN) on a label.

Note:

1. In addition to mating with the VR headers, the VR receptacle will also mate with VH and VS headers.
2. Color indication is shown by a line on each receptacle.

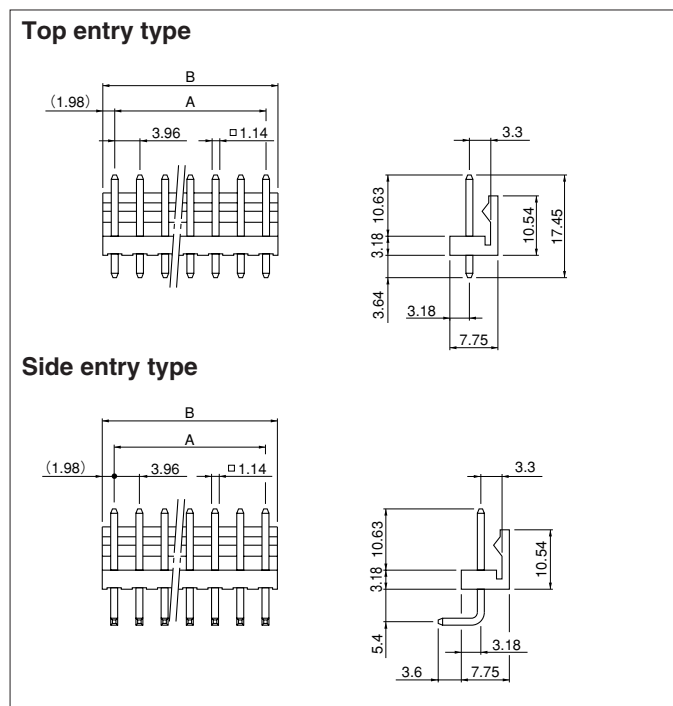
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **02VR-6S**

standard color AWG#26: S...natural (white), AWG#24: K...black, AWG#22: R...red, AWG#20: N...brown, AWG#18: O...orange, TR...tomato red E...blue
M...green

VR CONNECTOR

Locking header (Friction lock header)



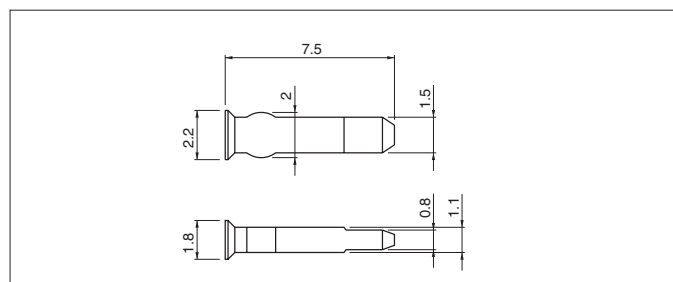
Cir- cuits	Model No.		Dimensions (mm)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
2	B 2P-VR	B 2PS-VR	3.96	7.92	1,000	250
3	B 3P-VR	B 3PS-VR	7.92	11.88	500	250
4	B 4P-VR	B 4PS-VR	11.88	15.84	250	250
5	B 5P-VR	B 5PS-VR	15.84	19.80	250	250
6	B 6P-VR	B 6PS-VR	19.80	23.76	250	100
8	B 8P-VR	B 8PS-VR	27.72	31.68	200	100
9	B 9P-VR	B 9PS-VR	31.68	35.64	100	100
10	B10P-VR	B10PS-VR	35.64	39.60	100	100
12	B12P-VR-P	B12PS-VR-P	43.56	47.52	100	100
15	B15P-VR-P	B15PS-VR-P	55.44	59.40	100	100

Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: 2 to 10 circuits / PA 66, UL94V-0, natural (white)
12 and 15 circuits / PBT, UL94V-0, natural (white)

RoHS compliance This product displays (LF)(SN) on a label.

Polarizing key



Model No.	Q'ty / bag
PK-VR	5,000

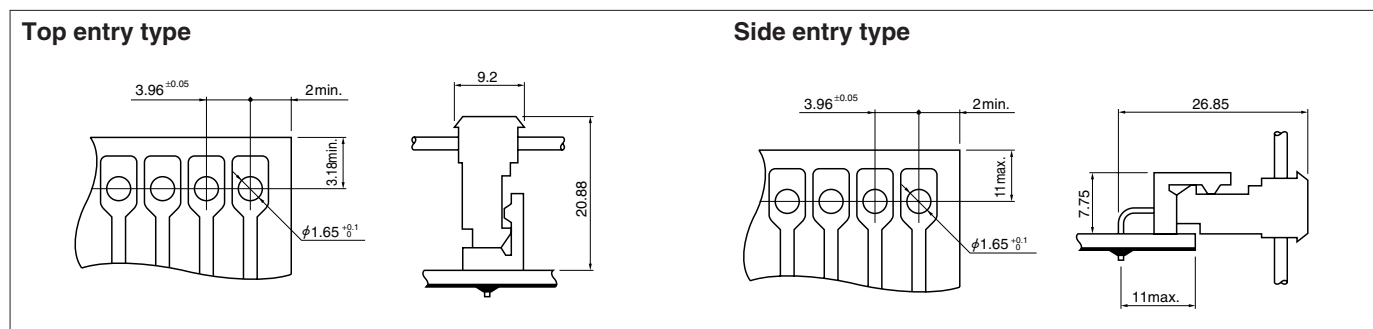
Material

Glass-filled PA 66, UL94V-0, natural (gray)

RoHS compliance

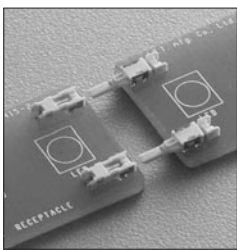
Note: Not UL/CSA approved.

PC board layout (viewed from soldering side) and Assembly layout



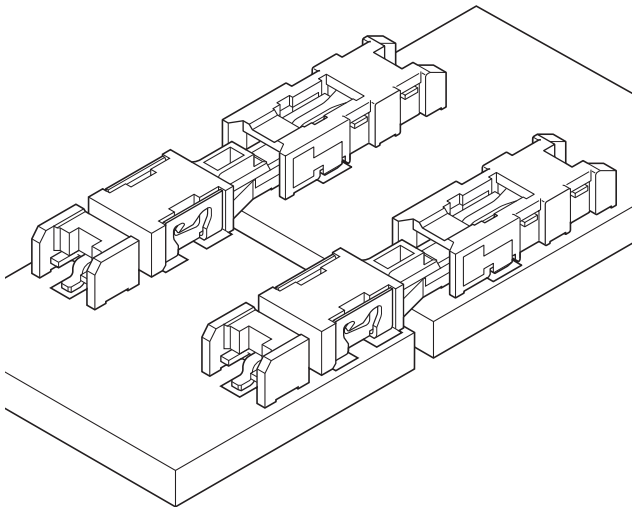
Note:

- Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
- Hole dimensions differ according to the type of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.



LEL CONNECTOR

For LED Lamp/Board-to-board connectors



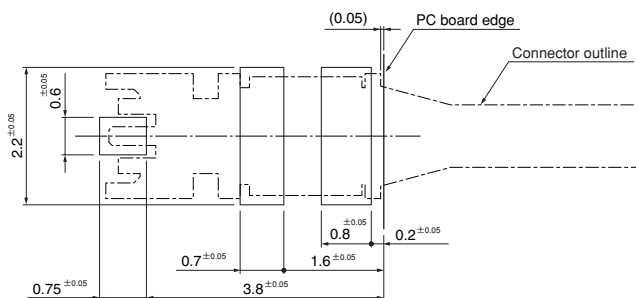
Considering about luminescence property of LED package, this LEL connector is designed as low profile type connector for LED lighting, and achieves the space saving. The horizontal connection between PCBs enables and the mechanism of absorbing the PCB misalignment has been installed considering the parallel use for the connector. Bellows type contact has a high contact pressure and a high durability performance (receptacle side) and enough mating stroke provides the stable contact performance even if the PCB expands and contracts due to heat.

- **Absorption misalignment mechanism** (X, Y, Z and θ directions)
- **Low profile and space saving design**
- **Halogen-free and RoHS compliant**
- **The gold plating is conducted due to the long-life of LED lighting equipment.**

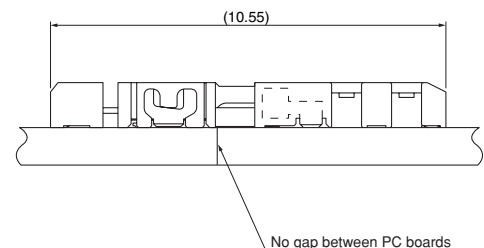
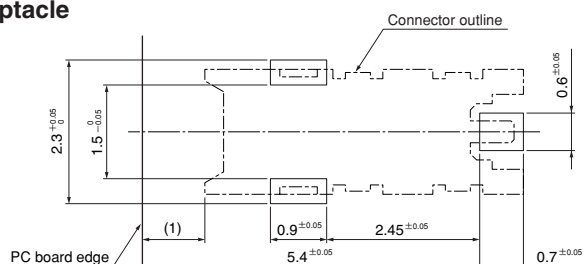
Specifications

- Current rating: 1.6A AC, DC
- Voltage rating: 100V AC, DC
- Temperature range: -55°C to +105°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/40m Ω max.
After environmental testing/60m Ω max.
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Plug



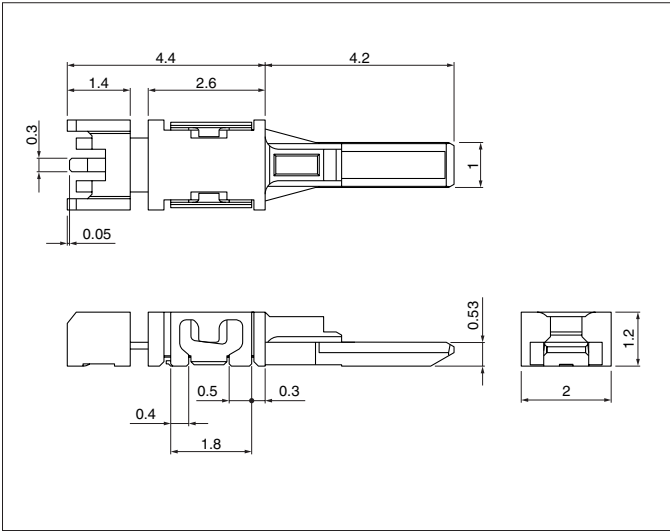
Receptacle



Note: 1. The above figure is the figure viewed from the connector mounting side.

2. Tolerances are non-cumulative: ± 0.05 mm for all centers. The dimensions above should serve as a guideline. Contact JST for details.

Plug

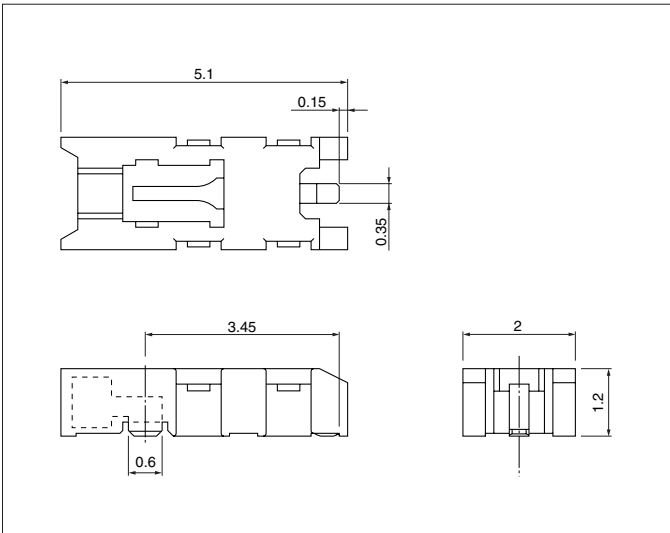


Circuits	Model No.	Q'ty / reel
1	01P-LELSS-GA-TF(HF)	15,000

Material and Finish		
Contact: Copper alloy, nickel-undercoated, selective gold-plated		
Housing: LCP, UL94V-0, natural		
Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)		

RoHS compliance
Note: The products listed above are supplied on embossed-tape.

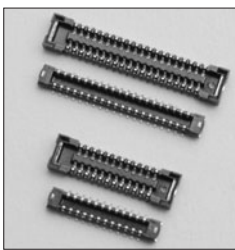
Receptacle



Circuits	Model No.	Q'ty / reel
1	01R-LELSS-GA-TF(HF)	15,000

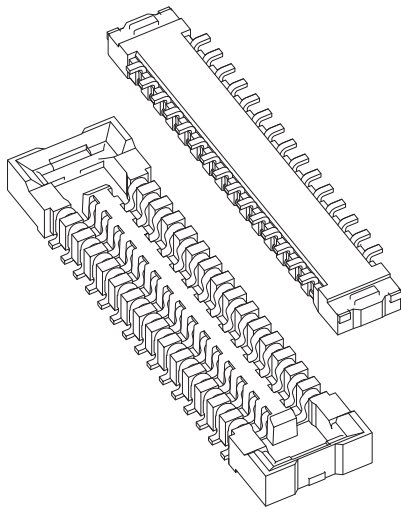
Material and Finish		
Contact: Copper alloy, nickel-undercoated, selective gold-plated		
Housing: LCP, UL94V-0, natural		
Solder tab: Copper alloy, nickel-undercoated, selective gold-plated		

RoHS compliance
Note: The products listed above are supplied on embossed-tape.



JAK CONNECTOR

0.4mm pitch/Board-to-Board Connectors



This is space saving type board-to-board connector with 0.4mm pitch, 0.8mm between PC boards and 2.0mm product width. 1.0mm Between PC boards is available by using dedicated receptacle.

- Contact lock structure
- Two points contact structure
- Wiping contact structure
- No prohibition area

Specifications

- Current rating: 0.3 A AC, DC
- Voltage rating: 30 V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 50 mΩ max.
After environmental tests/ 80 mΩ max.
- Insulation resistance: 100 MΩ min.
- Withstanding voltage: 250 VAC/minute

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

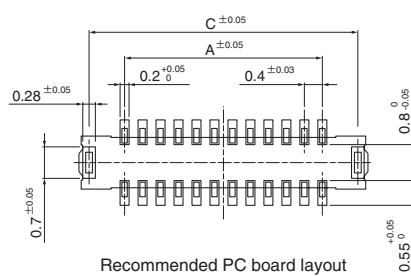
* Compliant with RoHS.

Standards

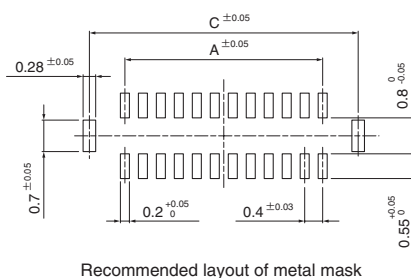
Ⓜ Recognized E60389

Ⓢ Certified LR20812

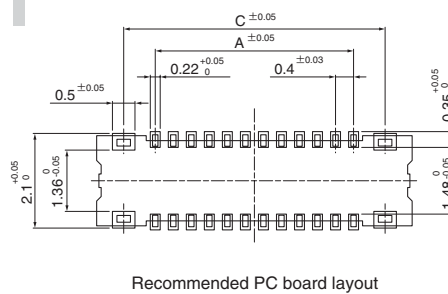
Plug



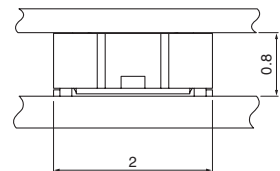
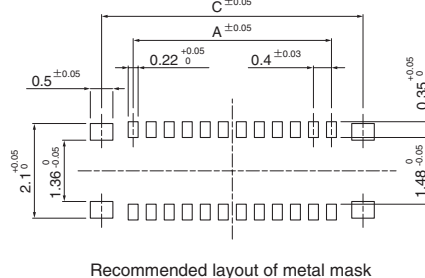
- Metal mask thickness : 100 μm



Receptacle



- Metal mask thickness : 100 μm

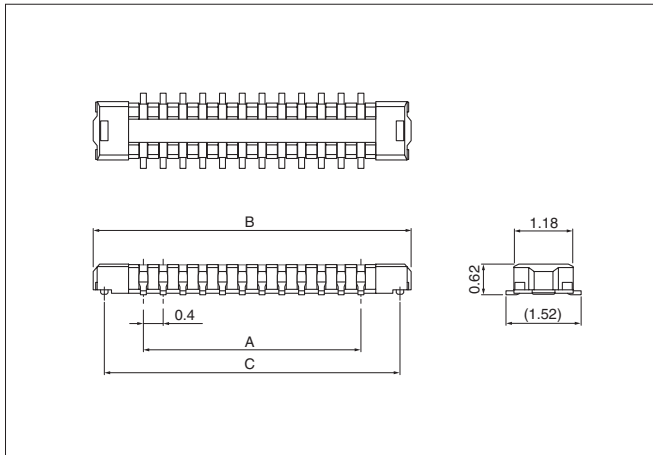


Note: 1. The above figure is the figure viewed from the connector mounting side.

2. Tolerances are non-cumulative: ±0.03mm for all centers. The dimensions above should serve as a guideline. Contact JST for details.

3. Contact JST for nitrogen (N₂) reflow soldering.

Plug



Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
10	10P-JAKK-GSAN-TF(HF)	1.6	3.63	3.18	15,000
16	16P-JAKK-GSAN-TF(HF)	2.8	4.83	4.38	15,000
24	24P-JAKK-GSAN-TF(HF)	4.4	6.43	5.98	15,000
30	30P-JAKK-GSAN-TF(HF)	5.6	7.63	7.18	15,000
40	40P-JAKK-GSAN-TF(HF)	7.6	9.63	9.18	15,000

Material and Finish

Contact: Phosphor bronze, nickel-undercoated, gold-plated (nickel stripe)

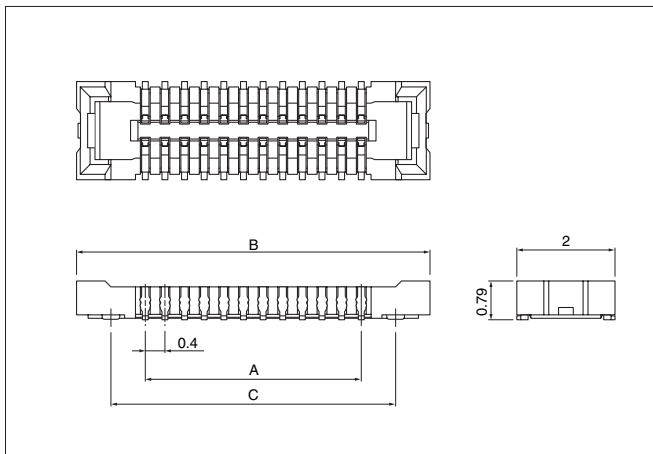
Housing: LCP, UL94V-0

Reinforcing tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (HF) on a label.

Note: The products listed above are supplied on embossed-tape.

Receptacle



Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
10	10R-JAKK-GSAN-TF(HF)	1.6	4.4	3.0	15,000
16	16R-JAKK-GSAN-TF(HF)	2.8	5.6	4.2	15,000
24	24R-JAKK-GSAN-TF(HF)	4.4	7.2	5.8	15,000
30	30R-JAKK-GSAN-TF(HF)	5.6	8.4	7.0	15,000
40	40R-JAKK-GSAN-TF(HF)	7.6	10.4	9.0	15,000

Material and Finish

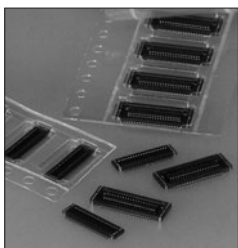
Contact: Phosphor bronze, nickel-undercoated, gold-plated (nickel stripe)

Housing: LCP, UL94V-0

Reinforcing tab: Brass, copper-undercoated, tin-plated (reflow treatment)

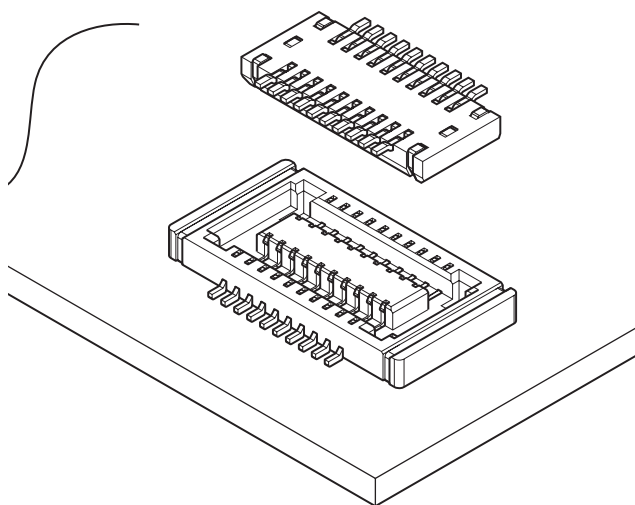
RoHS compliance This product displays (HF) on a label.

Note: The products listed above are supplied on embossed-tape.



JAN CONNECTOR

0.4mm pitch/Board-to-board connectors



This JAN connector is a board-to-board connector with stacking height 1.0mm and 0.4mm pitch, which is the lowest-profile connector in the [electro mechanical component] industry.

In consideration of operability at user side, although it is 1.0mm low profile, when mating receptacle with plug, the connector structure, where the large amount of guiding connector can be taken, is adopted, and differentiates JAN connector with added value.

- Locking mechanism of contact
- Wiping contact structure
- Reinforcement tabs

Specifications

- Current rating: 0.2A AC, DC
- Voltage rating: 30V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/70m Ω max.
After environmental testing/140m Ω max.
- Insulation resistance: 50M Ω min.
- Withstanding voltage: 100V AC/minute
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

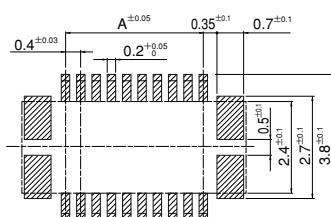
Standards

Ⓜ Recognized E60389

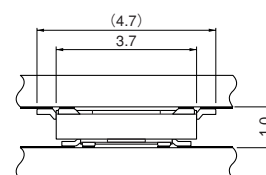
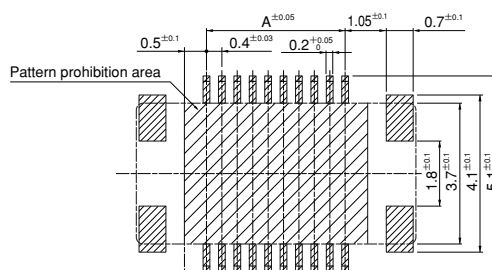
Ⓢ Certified LR20812

PC board layout (viewed from component side) and Assembly layout

Plug



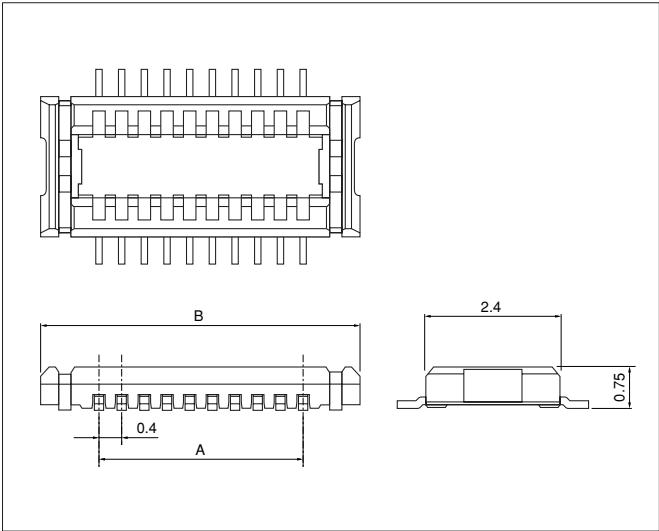
Receptacle



Note: 1. Tolerances are non-cumulative: $\pm 0.03\text{mm}$ for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

JAN CONNECTOR

Plug



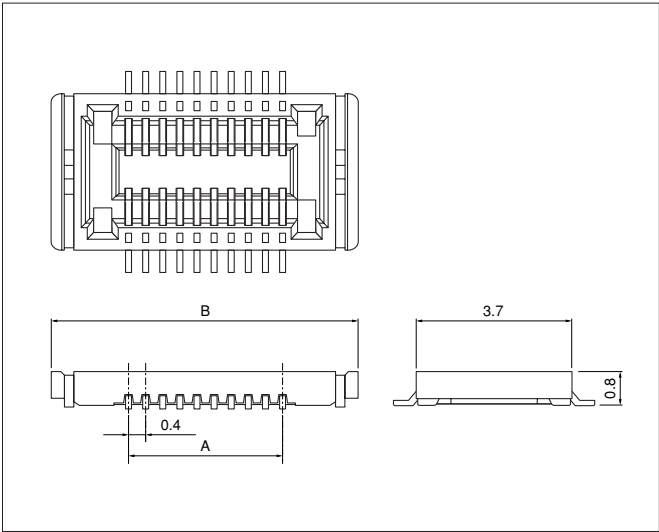
Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
20	20P-JANK-GSAN-2-TF	3.6	5.6	4,000
24	24P-JANK-GSAN-2-TF	4.4	6.4	4,000
34	34P-JANK-GSAN-2-TF	6.4	8.4	4,000
40	40P-JANK-GSAN-2-TF	7.6	9.6	4,000
60	60P-JANK-GSAN-2-TF	11.6	13.6	4,000

Material and Finish

Contact: Phosphor bronze, nickel-undercoated, gold-plated (nickel-stripe)
Housing: LCP, UL94V-0
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.
Note: The products listed above are supplied on embossed-tape.

Receptacle



Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
20	20R-JANK-GSAN-TF	3.6	7.2	4,000
24	24R-JANK-GSAN-TF	4.4	8.0	4,000
34	34R-JANK-GSAN-TF	6.4	10.0	4,000
40	40R-JANK-GSAN-TF	7.6	11.2	4,000
60	60R-JANK-GSAN-TF	11.6	15.2	4,000

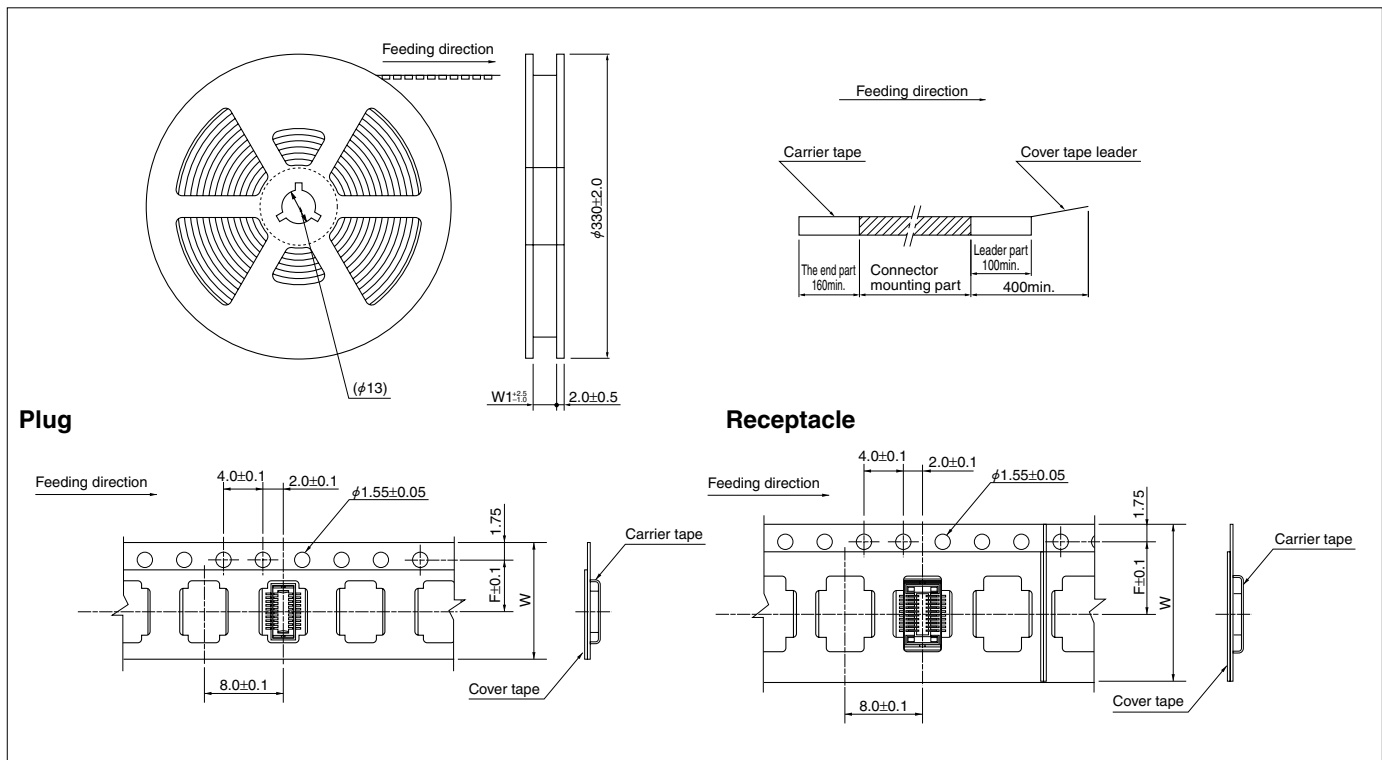
Material and Finish

Contact: Phosphor bronze, nickel-undercoated, gold-plated (nickel-stripe)
Housing: LCP, UL94V-0
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.
Note: The products listed above are supplied on embossed-tape.

JAN CONNECTOR

Taping specifications



Plug

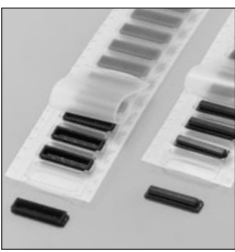
Cir- cuits	Dimensions (mm)			Q'ty / reel
	F	W	W1	
20	5.5	12.0	13.5	4,000
24	7.5	16.0	17.5	4,000
34	7.5	16.0	17.5	4,000
40	7.5	16.0	17.5	4,000
60	11.5	24.0	25.5	4,000

Note:

- Specifications conform to JIS C 0806. The tape width, connector loading recess square hole dimensions, etc. are determined by the number of circuits and external shape of the connector to be loaded.
- Specifications are subject to change without prior notice.

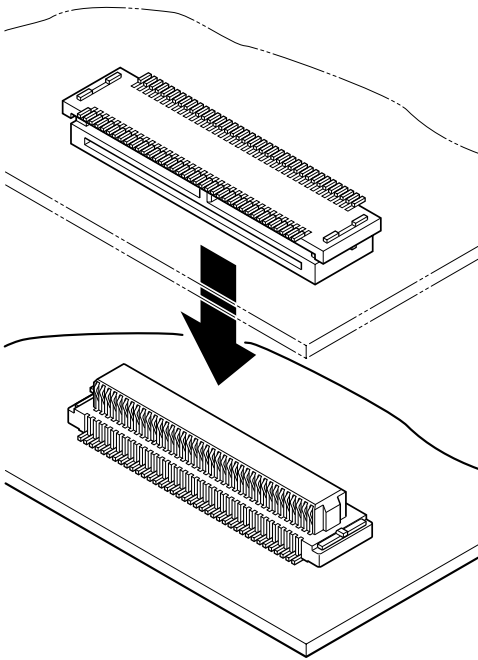
Receptacle

Cir- cuits	Dimensions (mm)			Q'ty / reel
	F	W	W1	
20	7.5	16.0	17.5	4,000
24	7.5	24.0	17.5	4,000
34	11.5	24.0	25.5	4,000
40	11.5	24.0	25.5	4,000
60	11.5	24.0	25.5	4,000



JAS CONNECTOR

0.4mm pitch/Board-to-board connectors



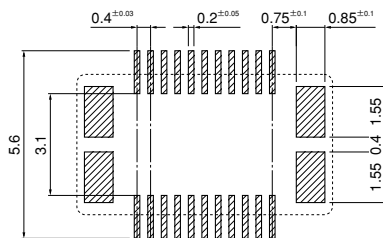
- **The plug housing is constructed of two separate parts. This allows the connector to be put under greater torsion strain than similar connectors without any damage being done to the solder joints.**
- **Both plug and receptacle have the double I type solder tabs, which reduces the stress by the distorted mating/unmating applied to the solder tails.**

Specifications

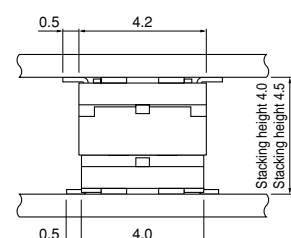
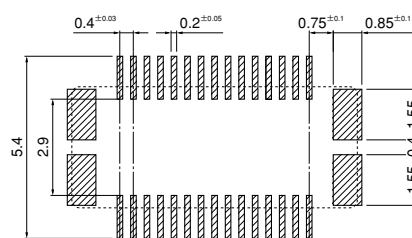
- Current rating: 0.3A AC,DC
- Voltage rating: 30V AC,DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/70m Ω max.
After environmental testing/140m Ω max.
- Insulation resistance: 50M Ω min.
- Withstanding voltage: 100V AC/minute
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

PC board layout (viewed from component side) and Assembly layout

Plug

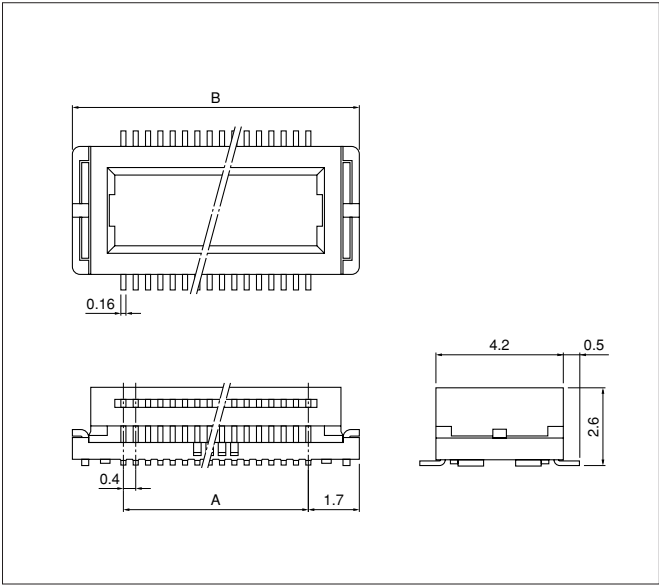


Receptacle



Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Plug



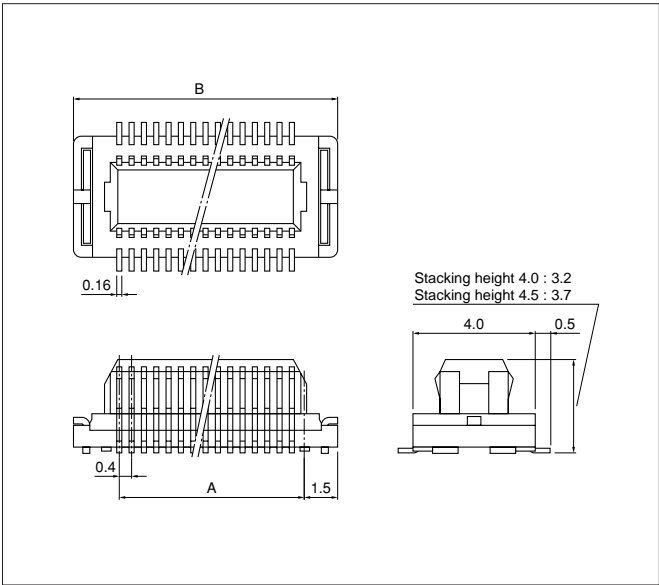
Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
80	80P-JASKS-GE-TF	15.6	19.0	2,500
100	100P-JASKS-GE-TF	19.6	23.0	2,500
120	120P-JASKS-GE-TF2	23.6	27.0	1,500

Material and Finish

Contact: Phosphor bronze, nickel-undercoated, gold-plated
Housing: PPS, UL94V-0
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.
Note: The products listed above are supplied on embossed-tape.

Receptacle



Circuits	Model No.		Dimensions (mm)		Q'ty reel
	Stacking height		A	B	
	4.0mm	4.5mm			
80	80R-JASKS-GWAN-TF	—	15.6	18.6	2,500
100	100R-JASKS-GWAN-TF	100R4.5-JASKS-GWAN-TF	19.6	22.6	2,500
120	—	120R4.5-JASKS-GWAN-TF2	23.6	26.6	1,500

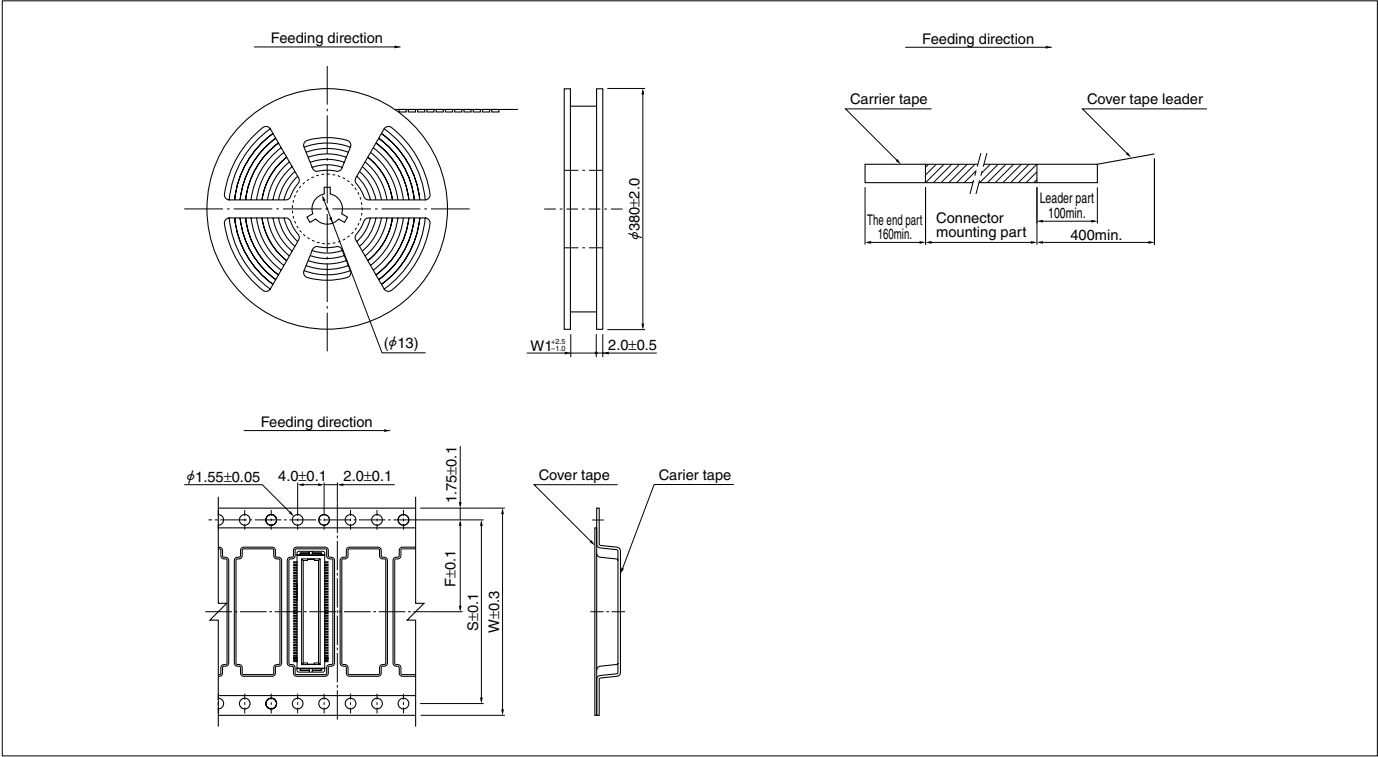
Material and Finish

Contact: Phosphor bronze, nickel-undercoated, gold-plated (nickel-stripe)
Housing: LCP, UL94V-0
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.
Note: The products listed above are supplied on embossed-tape.

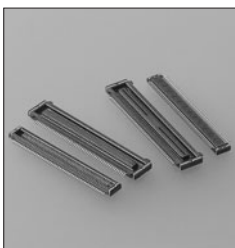
JAS CONNECTOR

Taping specifications



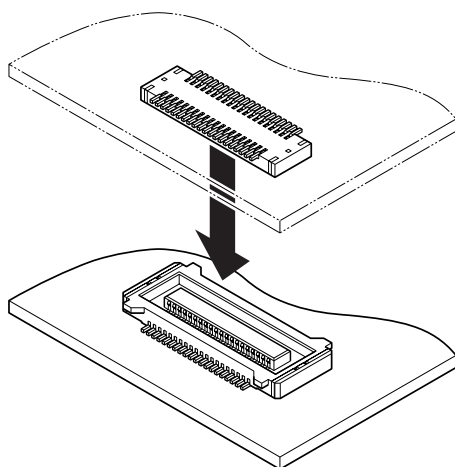
Circuits	Dimensions (mm)				Q'ty / reel
	F	S	W	W1	
80	14.2	28.4	32.0	33.5	2,500
100	20.2	40.4	44.0	45.5	2,500
120	20.2	40.4	44.0	45.5	1,500

Note: 1. Specifications conform to JIS C0806. The tape width, connector loading recess square hole dimensions, etc. are determined by the number of circuits and external shape of the connector to be loaded.
2. Specifications are subject to change without prior notice.

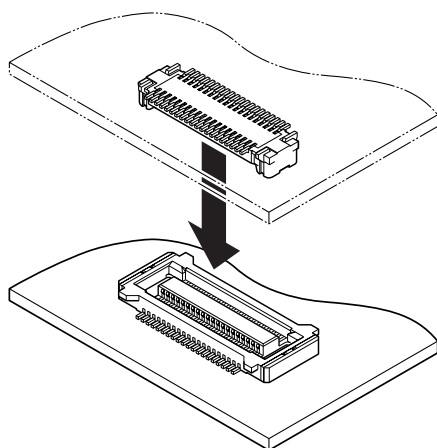


JAV CONNECTOR

0.4mm pitch/Board-to-board connectors



With mating guide



- Fine pitch and extremely low profile
- Contact lock construction
- Flat surface
- Concentration contact structure with wiping action
- Mating connector inside box shaped plug and receptacle
- Solder going-up prevention

JAV connector with mating guide

- Mating guide structure

Specifications

- Current rating: 0.3A AC, DC
- Voltage rating: 30V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/70m Ω max.
After environmental testing/140m Ω max.
- Insulation resistance: 50M Ω min.
- Withstanding voltage: 100V AC/minute
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

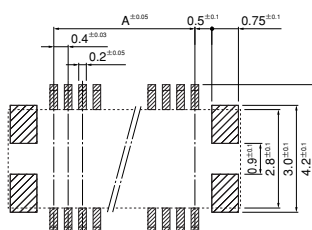
Recognized E60389

Certified LR20812

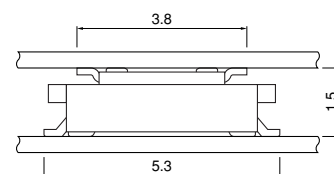
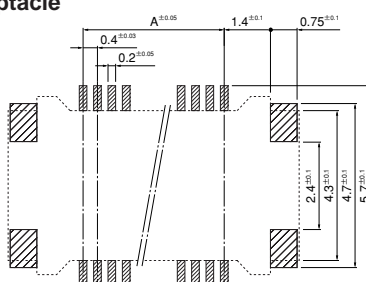
0.4mm pitch, SMT, low profile connector with parallel connection.

PC board layout (viewed from component side) and Assembly layout

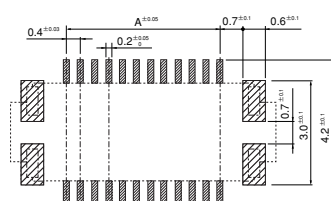
Plug



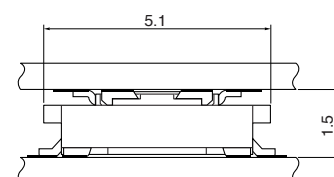
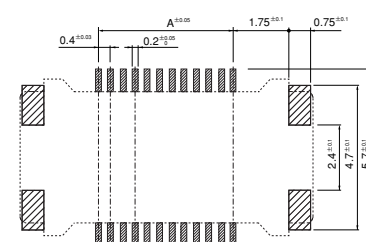
Receptacle



Plug/with mating guide

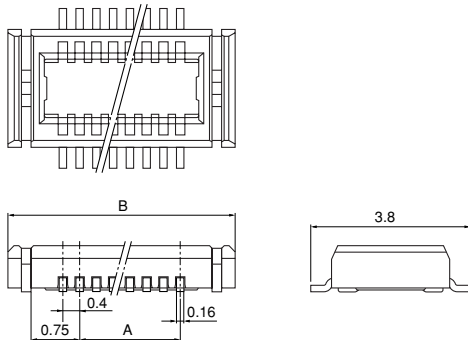


Receptacle/with mating guide

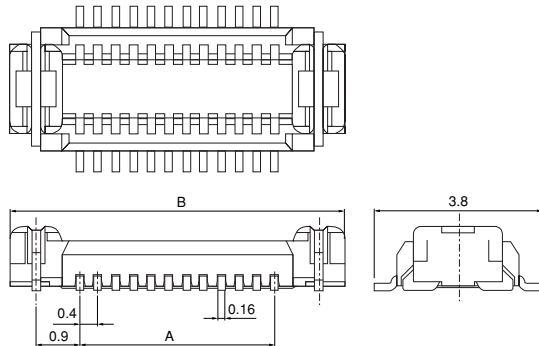


Note: 1. Tolerances are non-cumulative: $\pm 0.03\text{mm}$ for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Plug



With mating guide



Circuits	Model No.	Dimensions (mm)		Q'ty/ reel
		A	B	
*20	20PA-JAVK-GSAN-TF	3.6	6.2	3,500
22	22PA-JAVK-GSAN-TF	4.0	6.6	3,500
26	26PA-JAVK-GSAN-TF	4.8	7.4	3,500
30	30PA-JAVK-GSAN-TF	5.6	8.2	3,500
40	40PA-JAVK-GSAN-TF	7.6	10.2	3,500
*70	70PA-JAVK-GSAN-TF	13.6	16.2	3,500

Material and Finish

Contact: Phosphor bronze, nickel-undercoated, gold-plated (nickel-stripe)
Housing: LCP, UL94V-0
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Note: 1. The products listed above are supplied on embossed-tape.

2. *Marked products are not CSA approved.

With mating guide

Circuits	Model No.	Dimensions (mm)		Q'ty/ reel
		A	B	
24	24PA-JAVK-GSAN-1-TF	4.4	7.6	3,000

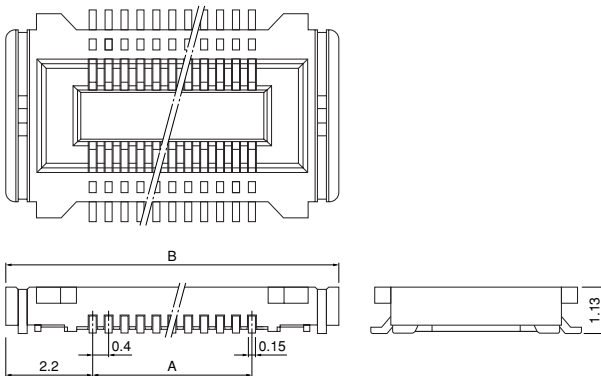
Material and Finish

Contact: Phosphor bronze, nickel-undercoated, gold-plated (nickel-stripe)
Housing: LCP, UL94V-0
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

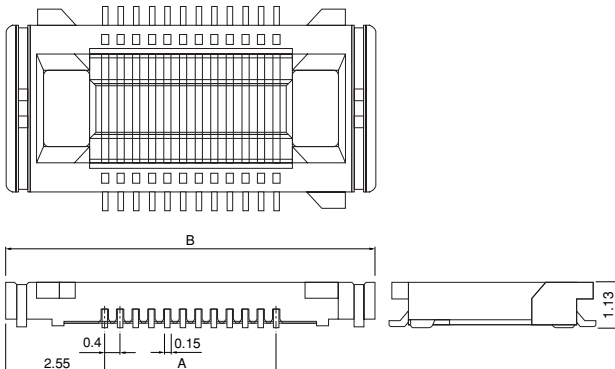
RoHS compliance This product displays (LF)(SN) on a label.

Note: The product listed above is supplied on embossed-tape.

Receptacle



With mating guide



Circuits	Model No.	Dimensions (mm)		Q'ty/ reel
		A	B	
*20	20R-JAVK-GSAN-TF	3.6	8.0	3,500
22	22R-JAVK-GSAN-TF	4.0	8.4	3,500
26	26R-JAVK-GSAN-TF	4.8	9.2	3,500
30	30R-JAVK-GSAN-TF	5.6	10.0	3,500
40	40R-JAVK-GSAN-TF	7.6	12.0	3,500
*70	70R-JAVK-GSAN-TF	13.6	18.0	3,500

Material and Finish

Contact: Phosphor bronze, nickel-undercoated, gold-plated (nickel-stripe)
Housing: LCP, UL94V-0
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Note: 1. The products listed above are supplied on embossed-tape.

2. *Marked products are not CSA approved.

With mating guide

Circuits	Model No.	Dimensions (mm)		Q'ty/ reel
		A	B	
24	24R-JAVK-GSAN-1-TF	4.4	9.5	3,500

Material and Finish

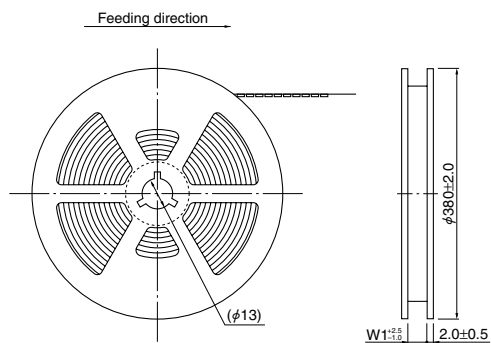
Contact: Phosphor bronze, nickel-undercoated, gold-plated (nickel-stripe)
Housing: LCP, UL94V-0
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

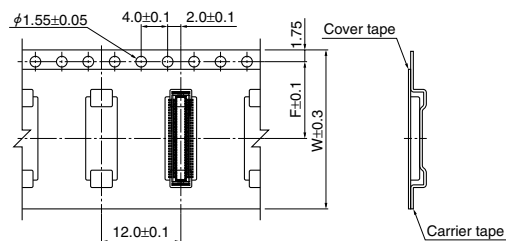
Note: The product listed above is supplied on embossed-tape.

JAV CONNECTOR

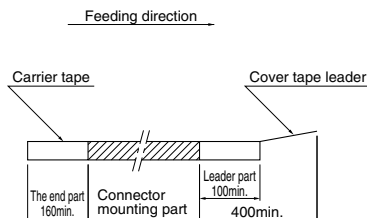
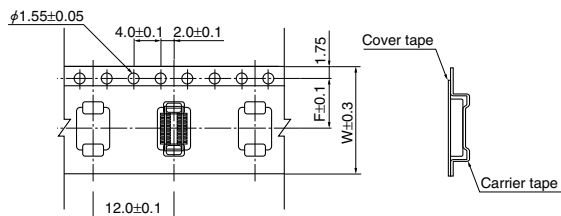
Taping specifications



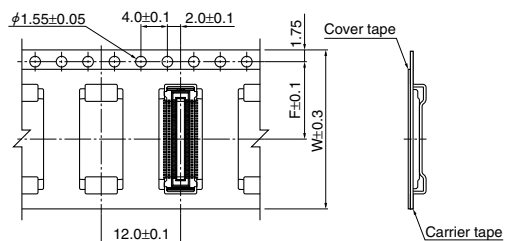
Plug



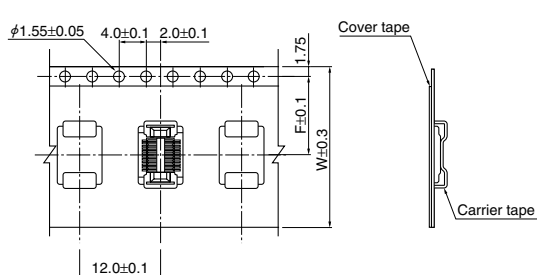
Plug/with mating guide



Receptacle



Receptacle/with mating guide



Note: 1. Specifications conform to JIS C0806. The tape width, connector loading recess square hole dimensions, etc. are determined by the number of circuits and external shape of the connector to be loaded.

2. Specifications are subject to change without prior notice.

Plug

Circuits	Dimensions (mm)			Q'ty / reel
	F	W	W1	
20 to 30	7.5	16.0	17.5	3,500
40, 70	11.5	24.0	25.5	3,500

Receptacle

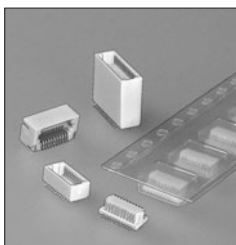
Circuits	Dimensions (mm)			Q'ty / reel
	F	W	W1	
20 to 30	7.5	16.0	17.5	3,500
40	11.5	24.0	25.5	3,500
70	14.2	32.0	33.5	3,500

Plug/with mating guide

Circuits	Dimensions (mm)			Q'ty / reel
	F	W	W1	
24	7.5	16.0	17.5	3,000

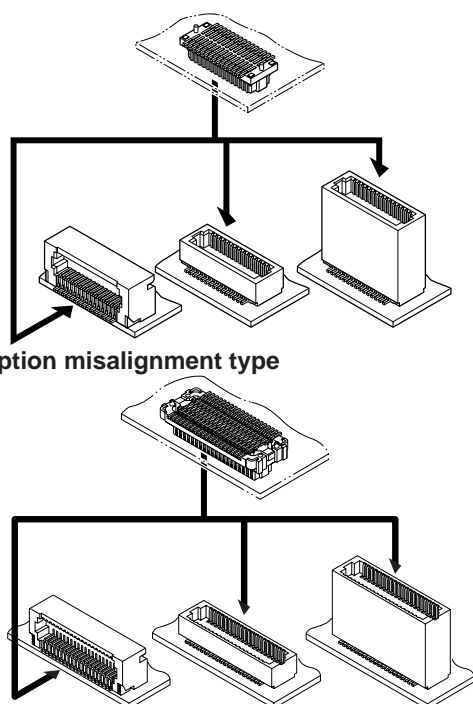
Receptacle/with mating guide

Circuits	Dimensions (mm)			Q'ty / reel
	F	W	W1	
24	11.5	24.0	25.5	3,500



JMC CONNECTOR

0.5mm pitch/Board-to-board connectors



Absorption misalignment type

This JMC connector is 0.5mm pitch SMT type board to board connector with selection of boss existence. Comparing with conventional JMC connector, more small and space saving are realized.

- **Secure mating**
- **Distortion preventive construction**
- **Versatile number of circuit and height**
- **Absorbing misalignment when mating connector**

Specifications

- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/50m Ω max.
After environmental testing/100m Ω max.
- Insulation resistance: 50M Ω min.
- Withstanding voltage: 100V AC/minute
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

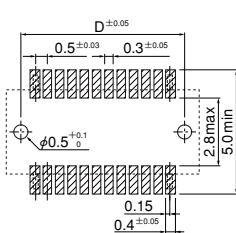
Standards

Recognized E60389

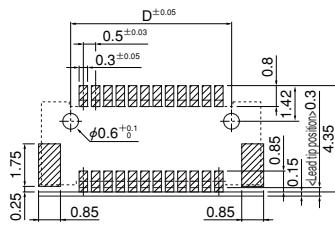
Certified LR20812

PC board layout (viewed from component side) and Assembly layout

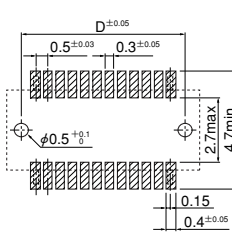
Plug: Top entry type



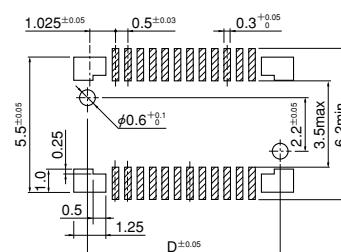
Plug: Side entry type



Receptacle



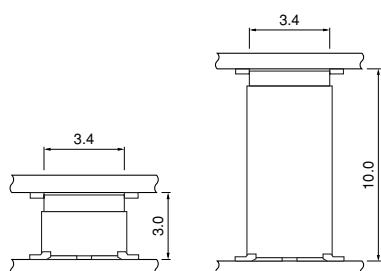
Absorption misalignment type



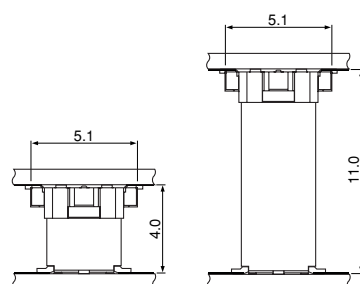
Note: 1. Tolerances are non-cumulative: $\pm 0.03 \text{ mm}$ for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Top entry type

Stacking height: 3.0 to 10.0mm

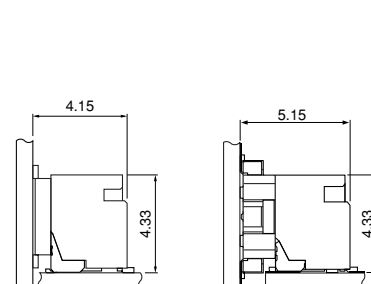


Absorption misalignment type
Stacking height: 4.0 to 11.0mm

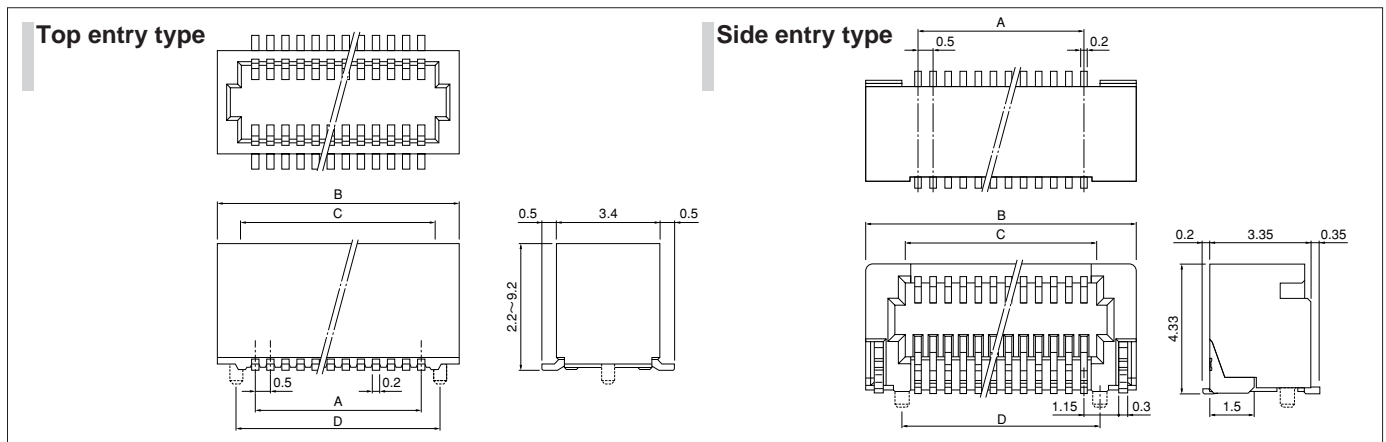


Side entry type

Absorption misalignment type



Plug



Top entry type

	Circuits	Model No. Stacking height (mm)				Dimensions (mm)			
		3.0	3.5	4.0	4.5	A	B	C	D
Without bosses	18	18P3.0-JMCS-G-TF	—	—	—	4.0	6.4	4.9	—
	20	20P3.0-JMCS-G-TF	20P3.5-JMCS-G-TF	—	20P4.5-JMCS-G-TF	4.5	6.9	5.4	—
	24	—	24P3.5-JMCS-G-TF	—	—	5.5	7.9	6.4	—
	30	30P3.0-JMCS-G-TF	30P3.5-JMCS-G-TF	30P4.0-JMCS-G-TF	—	7.0	9.4	7.9	—
	40	40P3.0-JMCS-G-TF	40P3.5-JMCS-G-TF	40P4.0-JMCS-G-TF	—	9.5	11.9	10.4	—
	50	50P3.0-JMCS-G-TF	—	—	—	12.0	14.4	12.9	—
With bosses	60	60P3.0-JMCS-G-TF	—	—	—	14.5	16.9	15.4	—
	20	20P3.0-JMCS-G-B-TF	20P3.5-JMCS-G-B-TF	—	20P4.5-JMCS-G-B-TF	4.5	6.9	5.4	5.7
	24	—	—	24P4.0-JMCS-G-B-TF	—	5.5	7.9	6.4	6.7
	30	—	30P3.5-JMCS-G-B-TF	30P4.0-JMCS-G-B-TF	—	7.0	9.4	7.9	8.2
	40	40P3.0-JMCS-G-B-TF	40P3.5-JMCS-G-B-TF	40P4.0-JMCS-G-B-TF	—	9.5	11.9	10.4	10.7
	44	44P3.0-JMCS-G-B-TF	—	—	—	10.5	12.9	11.4	11.7
	50	50P3.0-JMCS-G-B-TF	—	50P4.0-JMCS-G-B-TF	—	12.0	14.4	12.9	13.2
	60	—	—	60P4.0-JMCS-G-B-TF	—	14.5	16.9	15.4	15.7
Q'ty / reel		2,500	2,000	2,000	1,500				

	Circuits	Model No. Stacking height (mm)				Dimensions (mm)			
		5.0	5.5	6.0	6.5	A	B	C	D
Without bosses	14	14P5.0-JMCS-G-TF	—	—	—	3.0	5.4	3.9	—
	20	20P5.0-JMCS-G-TF	20P5.5-JMCS-G-TF	20P6.0-JMCS-G-TF	—	4.5	6.9	5.4	—
	30	—	—	—	30P6.5-JMCS-G-TF	7.0	9.4	7.9	—
	40	40P5.0-JMCS-G-TF	—	—	—	9.5	11.9	10.4	—
	50	50P5.0-JMCS-G-TF	—	—	—	12.0	14.4	12.9	—
	60	—	60P5.5-JMCS-G-TF	—	—	14.5	16.9	15.4	—
With bosses	14	14P5.0-JMCS-G-B-TF	—	—	—	3.0	5.4	3.9	4.2
	20	20P5.0-JMCS-G-B-TF	20P5.5-JMCS-G-B-TF	20P6.0-JMCS-G-B-TF	—	4.5	6.9	5.4	5.7
	30	—	—	—	30P6.5-JMCS-G-B-TF	7.0	9.4	7.9	8.2
	40	40P5.0-JMCS-G-B-TF	—	40P6.0-JMCS-G-B-TF	40P6.5-JMCS-G-B-TF	9.5	11.9	10.4	10.7
	50	—	—	—	—	12.0	14.4	12.9	13.2
	60	60P5.0-JMCS-G-B-TF	—	60P6.0-JMCS-G-B-TF	—	14.5	16.9	15.4	15.7
Q'ty / reel		1,500	1,000	1,000	1,000				

	Circuits	Model No. Stacking height (mm)				Dimensions (mm)			
		7.0	7.5	8.0	8.5	A	B	C	D
Without bosses	20	20P7.0-JMCS-G-TF	—	—	—	4.5	6.9	5.4	—
	50	50P7.0-JMCS-G-TF	—	—	—	12.0	14.4	12.9	—
With bosses	34	—	—	—	34P8.5-JMCS-G-B-TF	8.0	10.4	8.9	9.2
	50	50P7.0-JMCS-G-B-TF	50P7.5-JMCS-G-B-TF	50P8.0-JMCS-G-B-TF	—	12.0	14.4	12.9	13.2
	64	—	—	64P8.0-JMCS-G-B-TF	—	15.5	17.9	16.4	16.7
Q'ty / reel		1,000	600	600	500				

	Circuits	Model No. Stacking height (mm)				Dimensions (mm)			
		9.0	10.0	—	—	A	B	C	D
Without bosses	20	—	20P10.0-JMCS-G-TF	—	—	4.5	6.9	5.4	—
	30	30P9.0-JMCS-G-TF	—	—	—	7.0	9.4	7.9	—
	50	50P9.0-JMCS-G-TF	—	—	—	12.0	14.4	12.9	—
With bosses	20	—	20P10.0-JMCS-G-B-TF	—	—	4.5	6.9	5.4	5.7
	30	30P9.0-JMCS-G-B-TF	—	—	—	7.0	9.4	7.9	8.2
	40	40P9.0-JMCS-G-B-TF	40P10.0-JMCS-G-B-TF	—	—	9.5	11.9	10.4	10.7
	50	50P9.0-JMCS-G-B-TF	—	—	—	12.0	14.4	12.9	13.2
	60	60P9.0-JMCS-G-B-TF	—	—	—	14.5	16.9	15.4	15.7
Q'ty / reel		500	500	—	—				

RoHS compliance

Note: 1. The stacking height of absorption misalignment type is 1.0mm higher than that of standard type.

2. Nickel-stripe product: "(N)" is suffixed to the model No.

3. The products listed above are supplied on embossed-tape.

Plug

Side entry type

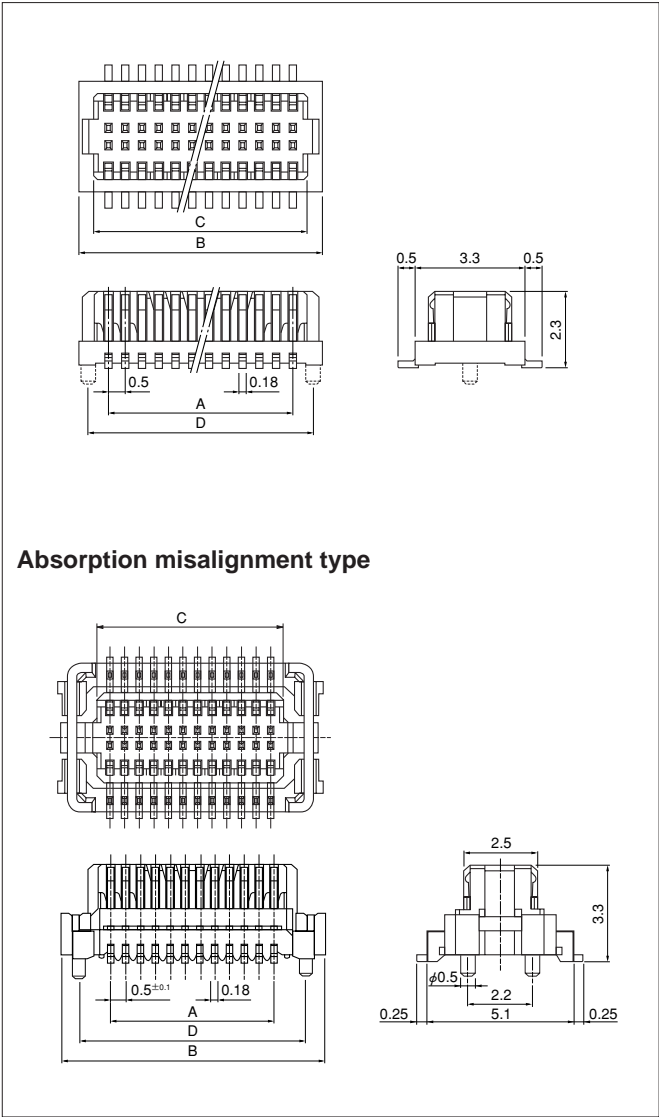
	Circuits	Model No.	Dimensions (mm)				Q'ty/ reel
			A	B	C	D	
Without bosses	20	20PS-JMCS-G-1-TF	4.5	7.9	5.4	—	1,500
	24	24PS-JMCS-G-1-TF	5.5	8.9	6.4	—	1,500
	30	30PS-JMCS-G-1-TF	7.0	10.4	7.9	—	1,500
	34	34PS-JMCS-G-1-TF	8.0	11.4	8.9	—	1,500
	40	40PS-JMCS-G-1-TF	9.5	12.9	10.4	—	1,500
	50	50PS-JMCS-G-1-TF	12.0	15.4	12.9	—	1,500
	60	60PS-JMCS-G-1-TF	14.5	17.9	15.4	—	1,500
With bosses	20	20PS-JMCS-G-1B-TF	4.5	7.9	5.4	5.55	1,500
	24	24PS-JMCS-G-1B-TF	5.5	8.9	6.4	6.55	1,500
	30	30PS-JMCS-G-1B-TF	7.0	10.4	7.9	8.05	1,500
	34	34PS-JMCS-G-1B-TF	8.0	11.4	8.9	9.05	1,500
	40	40PS-JMCS-G-1B-TF	9.5	12.9	10.4	10.55	1,500
	46	46PS-JMCS-G-1B-TF	11.0	14.4	11.9	12.05	1,500
	50	50PS-JMCS-G-1B-TF	12.0	15.4	12.9	13.05	1,500
	60	60PS-JMCS-G-1B-TF	14.5	17.9	15.4	15.55	1,500

Material and Finish

Contact: Phosphor bronze, nickel-undercoated, gold-plated
Housing: PA 6T, UL94V-0
Solder tab: Brass, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.
Note: 1. The products listed above are supplied on embossed-tape.
2. Nickel-stripe product: "(N)" is suffixed to the model No.

Receptacle



Circuits	Model No.		Dimensions (mm)				Q'ty / reel
	Without bosses	With bosses	A	B	C	D	
14	14R-JMCS-G-TF (S)	14R-JMCS-G-B-TF(S)	3.0	4.8	3.9	4.2	2,500
18	18R-JMCS-G-TF (S)	—	4.0	5.8	4.9	5.2	2,500
20	20R-JMCS-G-TF (S)	20R-JMCS-G-B-TF(S)	4.5	6.3	5.4	5.7	2,500
24	24R-JMCS-G-TF (S)	24R-JMCS-G-B-TF(S)	5.5	7.3	6.4	6.7	2,500
30	30R-JMCS-G-TF (S)	30R-JMCS-G-B-TF(S)	7.0	8.8	7.9	8.2	2,500
34	34R-JMCS-G-TF (S)	34R-JMCS-G-B-TF(S)	8.0	9.8	8.9	9.2	2,500
40	40R-JMCS-G-TF (S)	40R-JMCS-G-B-TF(S)	9.5	11.3	10.4	10.7	2,500
46	46R-JMCS-G-TF (S)	46R-JMCS-G-B-TF(S)	11.0	12.8	11.9	12.2	2,500
50	50R-JMCS-G-TF (S)	50R-JMCS-G-B-TF(S)	12.0	13.8	12.9	13.2	2,500
60	60R-JMCS-G-TF (S)	60R-JMCS-G-B-TF(S)	14.5	16.3	15.4	15.7	2,500

Material and Finish

Contact: Phosphor bronze, nickel-undercoated, gold-plated
Housing: PA 6T, UL94V-0

RoHS compliance
Note: 1. The products listed above are supplied on embossed-tape.
2. Nickel-stripe product: "(NSA)" instead of "(S)" is suffixed to model No.

Absorption misalignment type

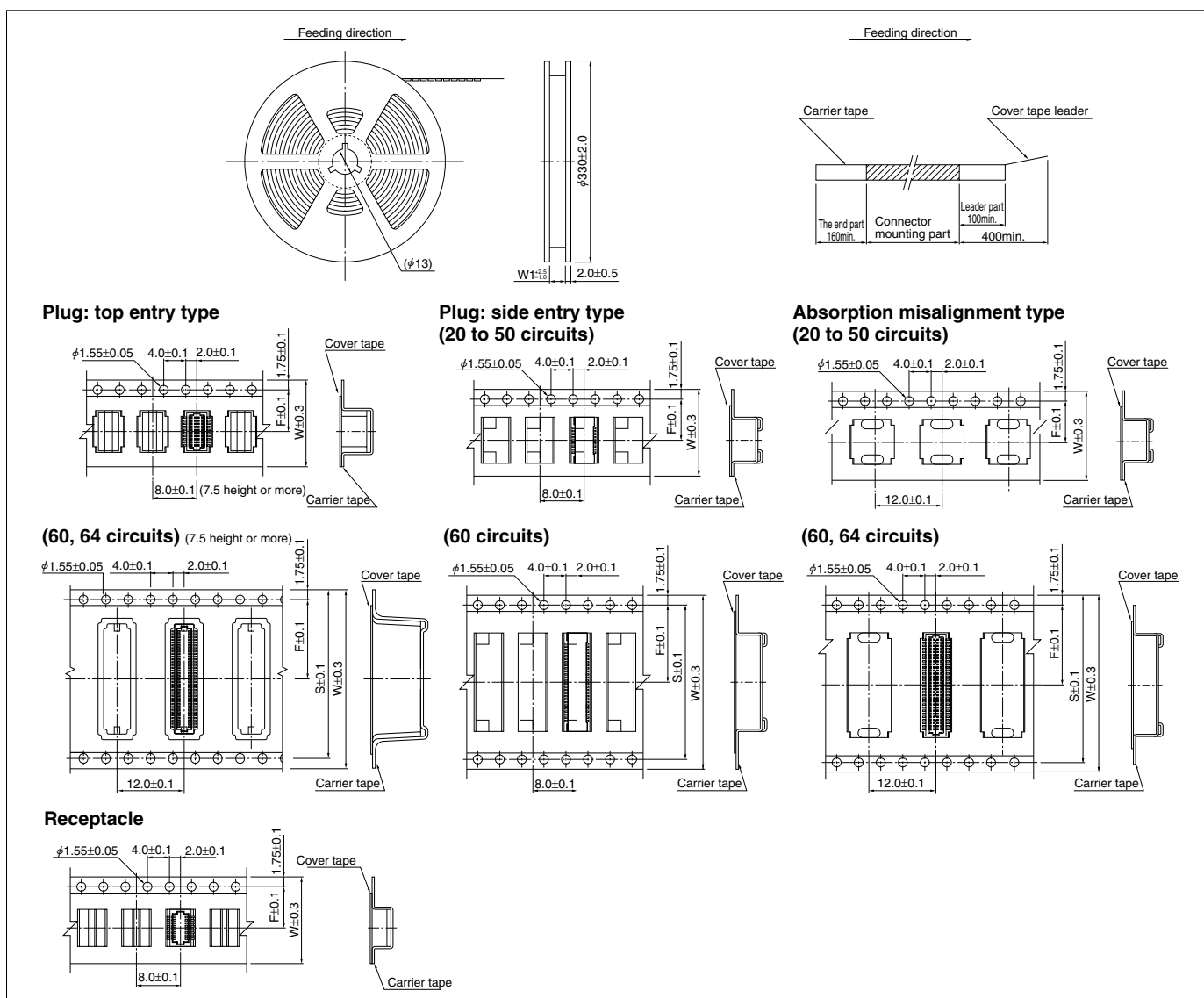
Circuits	Model No.		Dimensions (mm)				Q'ty / reel
	Without bosses	With bosses	A	B	C	D	
20	20RF-JMCS-G-1-TF	20RF-JMCS-G-1B-TF	4.5	8.0	5.4	6.75	1,000
30	30RF-JMCS-G-1-TF	30RF-JMCS-G-1B-TF	7.0	10.5	7.9	9.25	1,000
40	40RF-JMCS-G-1-TF	40RF-JMCS-G-1B-TF	9.5	13.0	10.4	11.75	1,000
44	—	*44RF-JMCS-G-1B-TF	10.5	14.0	11.4	12.75	1,000
50	50RF-JMCS-G-1-TF	50RF-JMCS-G-1B-TF	12.0	15.5	12.9	14.25	1,000
60	60RF-JMCS-G-1-TF	60RF-JMCS-G-1B-TF	14.5	18.0	15.4	16.75	1,000
64	—	*64RF-JMCS-G-1B-TF	15.5	19.0	16.4	17.75	1,000

Material and Finish

Contact: Phosphor bronze, nickel-undercoated, gold-plated
Housing: PA 6T, UL94V-0
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.
Note: 1. The products listed above are supplied on embossed-tape.
2. Nickel-stripe product: "(N)" is suffixed to model No.
3. *Marked products are not CSA approved.

Taping specifications



Plug Top entry type

Stacking height : 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0mm

Circuits	Dimensions (mm)			
	F	S	W	W1
14 to 30	7.5	—	16.0	17.5
40 to 60	11.5	—	24.0	25.5

Stacking height : 7.5, 8.0, 8.5, 9.0,10.0mm

Circuits	Dimensions (mm)			
	F	S	W	W1
20 to 30	7.5	—	16.0	17.5
34 to 50	11.5	—	24.0	25.5
60, 64	14.2	28.4	32.0	33.5

Plug Side entry type

Circuits	Dimensions (mm)			
	F	S	W	W1
20 to 24	7.5	—	16.0	17.5
30 to 50	11.5	—	24.0	25.5
60	14.2	28.4	32.0	33.5

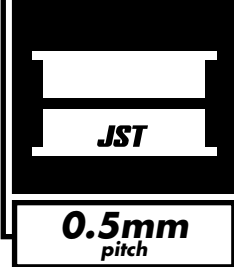
Receptacle

Circuits	Dimensions (mm)			
	F	S	W	W1
14 to 34	7.5	—	16.0	17.5
40 to 60	11.5	—	24.0	25.5

Receptacle/Absorption misalignment type

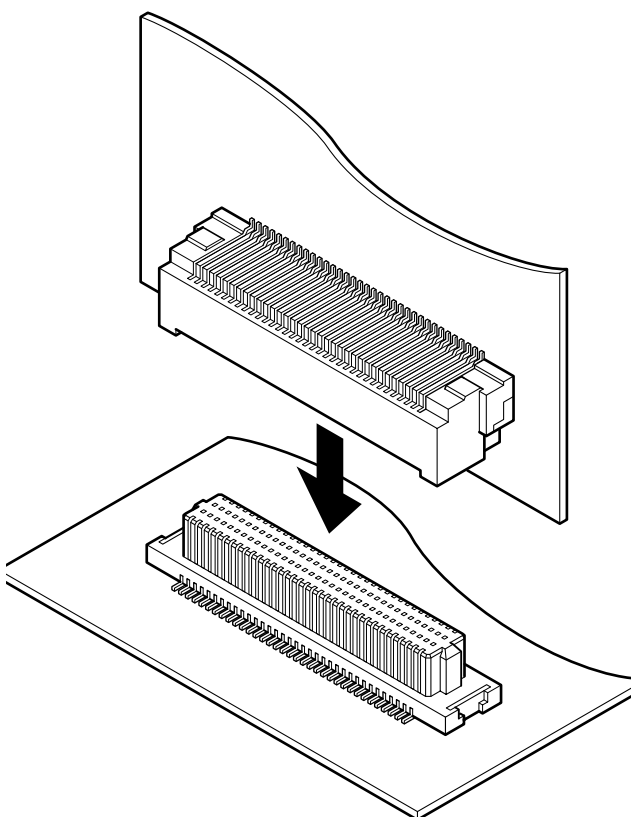
Circuits	Dimensions (mm)			
	F	S	W	W1
20	7.5	—	16.0	17.5
30 to 50	11.5	—	24.0	25.5
60, 64	14.2	28.4	32.0	33.5

*Note: 1. Specifications conform to JIS C 0806. The tape width, connector loading recess square hole dimensions, etc. are determined by the number of circuits and external shape of the connector to be loaded.
2. Specifications are subject to change without prior notice.*



JMD CONNECTOR

Board-to-board connectors



Features

• Smooth connection

Thanks to the cantilever type contacts, mating is very smooth.

• Distortion preventive construction

Box-shaped plug housing has the guide ribs on both ends, which prevents distortion, and offsetting the rib from the center axis provides the mating directionality.

• Wide range of circuits

No. of circuits available are from 20 to 100, every 10 circuits.

• Embossed taping for automatic mounting

This connector is supplied in embossed tape packaging, for mounting by automatic placement machines.

Specifications

- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/50m Ω max.
After environmental testing/100m Ω max.
- Insulation resistance: 50M Ω min.
- Withstanding voltage: 100V AC/minute
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

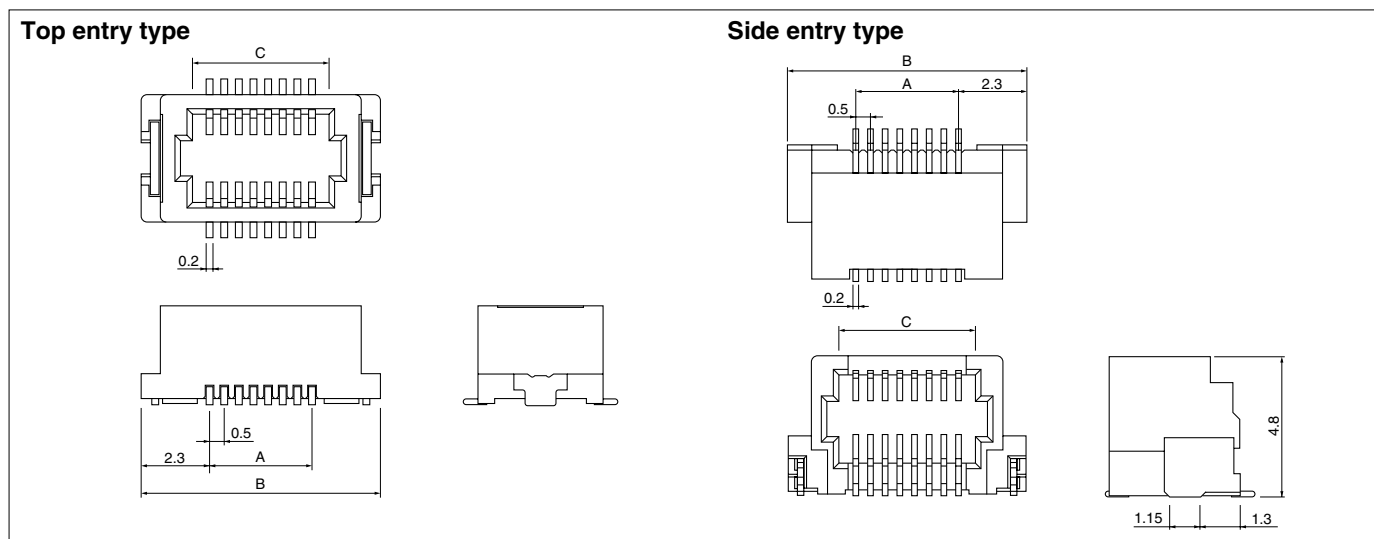
Standards

Recognized E60389

Certified LR20812

JMD CONNECTOR

Plug



Circuits	Model No.				Dimensions (mm)			Q'ty / reel
	Top entry type			Side entry type	A	B	C	
	4.5mm	5.0mm	6.0mm					
20	20P-JMDSS-G-1-TF	—	—	20PS-JMDSS-G-1-TF	4.5	9.1	5.7	1,500
30	—	30P5.0-JMDSS-G-1-TF	—	30PS-JMDSS-G-1-TF	7.0	11.6	8.2	1,500
40	40P-JMDSS-G-1-TF	40P5.0-JMDSS-G-1-TF	—	40PS-JMDSS-G-1-TF	9.5	14.1	10.7	1,500
50	50P-JMDSS-G-1-TF	—	50P6.0-JMDSS-G-1-TF	50PS-JMDSS-G-1-TF	12.0	16.6	13.2	1,500
60	60P-JMDSS-G-1-TF	—	60P6.0-JMDSS-G-1-TF	60PS-JMDSS-G-1-TF	14.5	19.1	15.7	1,500
70	70P-JMDSS-G-1-TF	—	70P6.0-JMDSS-G-1-TF	70PS-JMDSS-G-1-TF	17.0	21.6	18.2	1,500
80	80P-JMDSS-G-1-TF	—	—	80PS-JMDSS-G-1-TF	19.5	24.1	20.7	1,500
100	100P-JMDSS-G-1-TF	—	—	100PS-JMDSS-G-1-TF	24.5	29.1	25.7	1,500

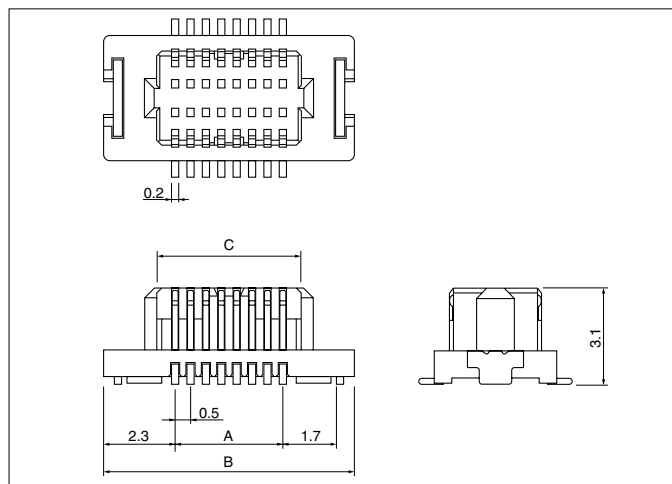
Material and Finish

Contact: Phosphor bronze, nickel-undercoated, gold-plated
Housing: PA 6T, UL94V-0
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Note: The products listed above are supplied on embossed-tape.

Receptacle



Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
20	20R-JMDSS-G-1-TF(S)	4.5	9.1	5.7	1,500
30	30R-JMDSS-G-1-TF(S)	7.0	11.6	8.2	1,500
40	40R-JMDSS-G-1-TF(S)	9.5	14.1	10.7	1,500
50	50R-JMDSS-G-1-TF(S)	12.0	16.6	13.2	1,500
60	60R-JMDSS-G-1-TF(S)	14.5	19.1	15.7	1,500
70	70R-JMDSS-G-1-TF(S)	17.0	21.6	18.2	1,500
80	80R-JMDSS-G-1-TF(S)	19.5	24.1	20.7	1,500
100	100R-JMDSS-G-1-TF(S)	24.5	29.1	25.7	1,500

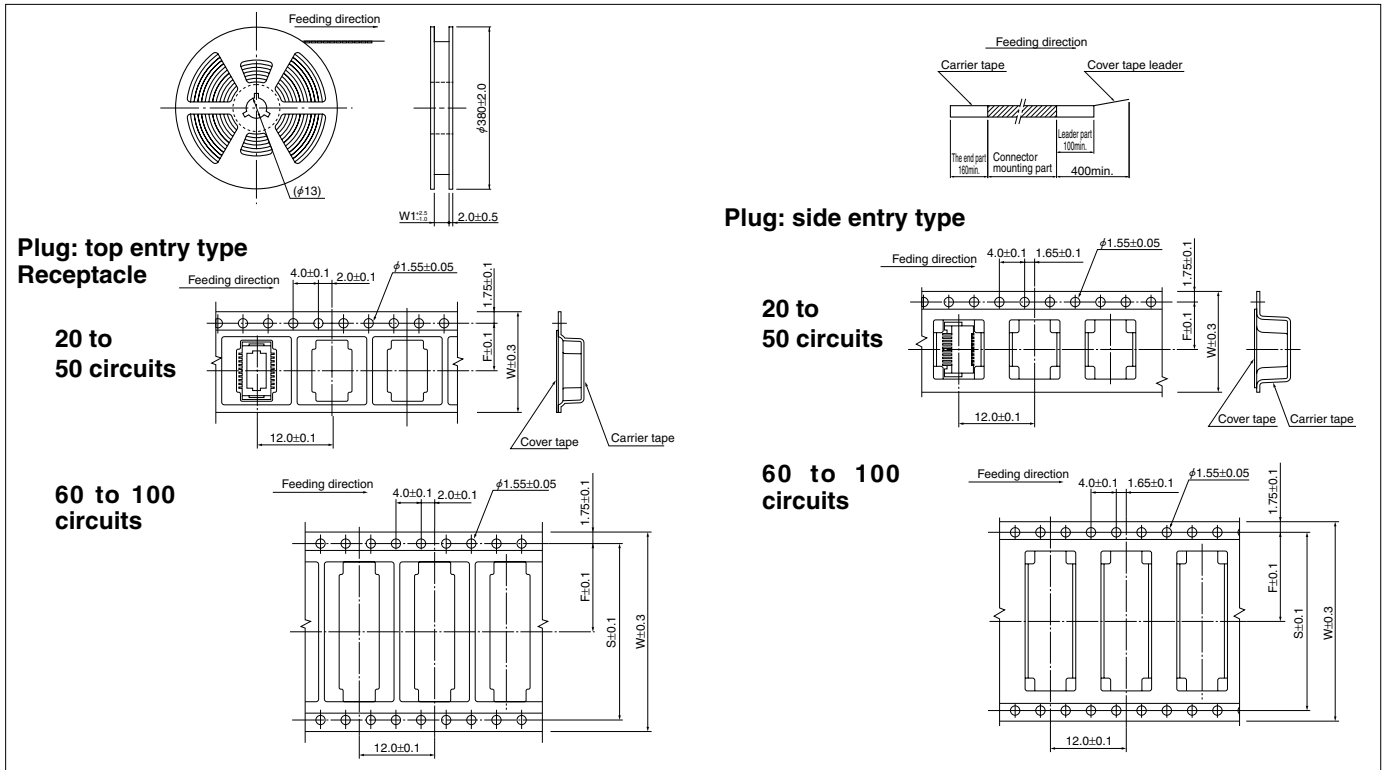
Material and Finish

Contact: Phosphor bronze, nickel-undercoated, gold-plated
Housing: PA 6T, UL94V-0
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Note: The products listed above are supplied on embossed-tape.

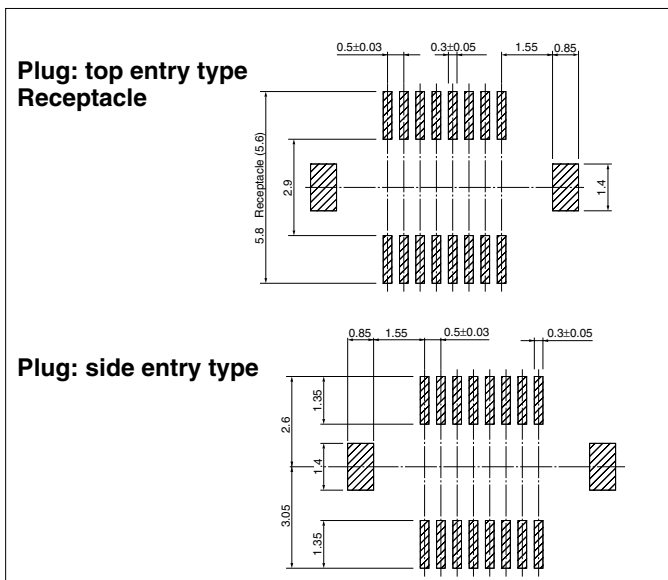
Taping specifications



Circuits	Dimensions (mm)				Q'ty / reel
	F	S	W	W1	
20	7.5	—	16.0	17.5	1,500
30	11.5	—	24.0	25.5	1,500
40	11.5	—	24.0	25.5	1,500
50	11.5	—	24.0	25.5	1,500
60	14.2	28.4	32.0	32.0	1,500
70	14.2	28.4	32.0	32.0	1,500
80	20.2	40.4	44.0	44.0	1,500
100	20.2	40.4	44.0	44.0	1,500

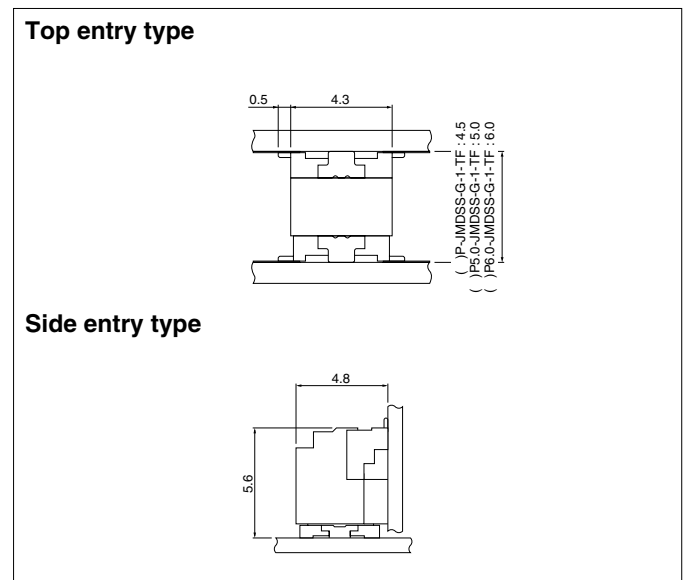
Note: 1. Specifications conform to JIS C 0806. The tape width, connector loading recess square hole dimensions, etc. are determined by the number of circuits and external shape of the connector to be loaded.
2. Specifications are subject to change without prior notice.

PC board layout (viewed from component side)



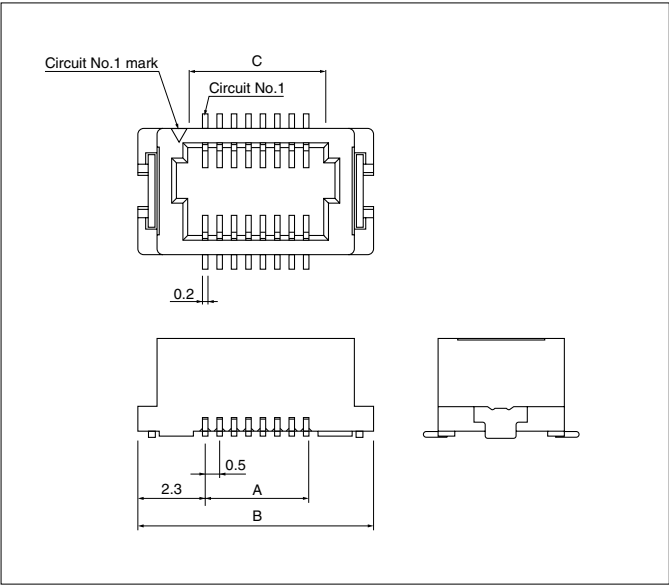
Note:
1. Tolerances are non-cumulative: $\pm 0.03\text{mm}$ for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Assembly layout



JMD CONNECTOR

Plug with polarizing key

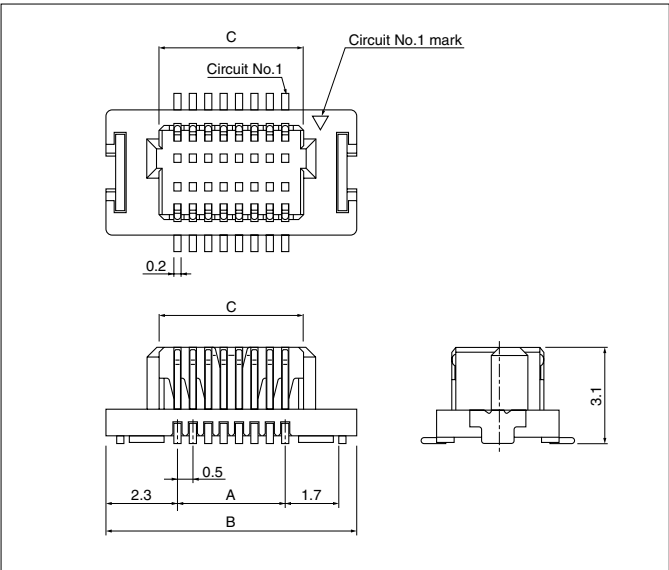


Cir- cuits	Model No.	Dimensions (mm)			Q'ty / reel
	Stacking height /4.5mm	A	B	C	
60	60P-JMDHS-GAN-1A-TF (A)	14.5	19.1	15.7	1,500

Material and Finish					
Contact: Phosphor bronze, nickel-underplated, gold-plated (nickel-stripe)					
Housing: PA6T, UL94V-0, gray					
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)					

RoHS compliance This product displays (LF)(SN) on a label.
This products listed above are supplied on embossed-tape.

Receptacle with polarizing key

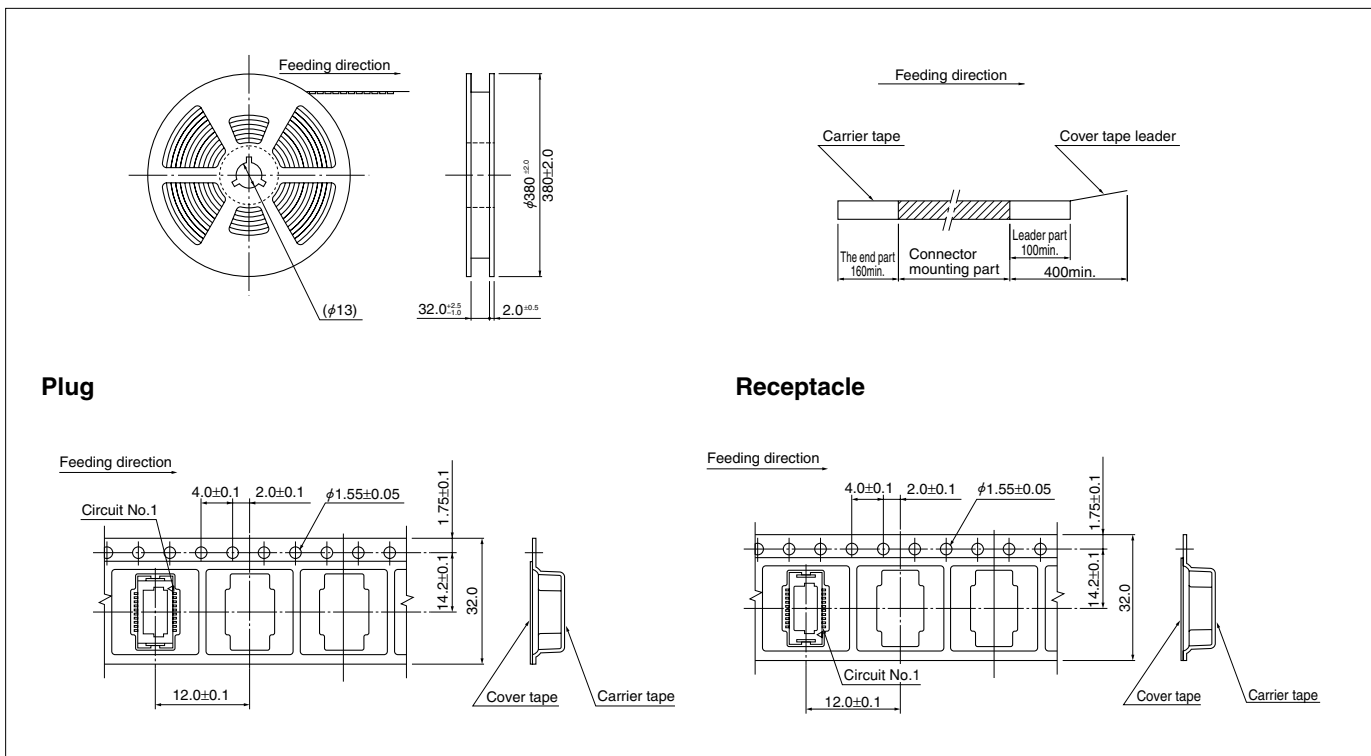


Cir- cuits	Model No.	Dimensions (mm)			Q'ty / reel
	Stacking height /4.5mm	A	B	C	
60	60R-JMDHS-GAN-1A-TF (SA)	14.5	19.1	15.7	1,500

Material and Finish					
Contact: Phosphor bronze, nickel-underplated, gold-plated (nickel-stripe)					
Housing: PA6T, UL94V-0, gray					
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)					

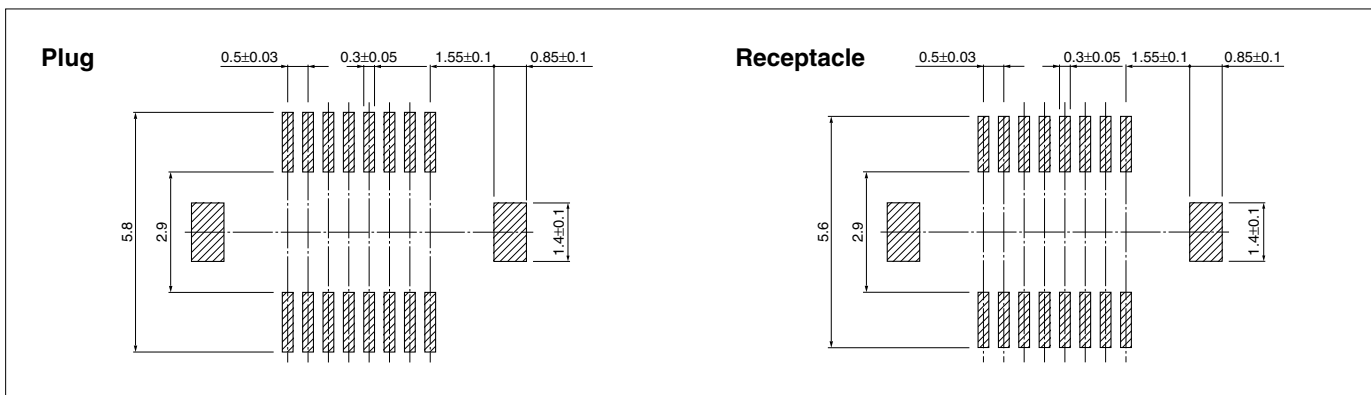
RoHS compliance This product displays (LF)(SN) on a label.
This products listed above are supplied on embossed-tape.

Taping specifications / with polarizing key



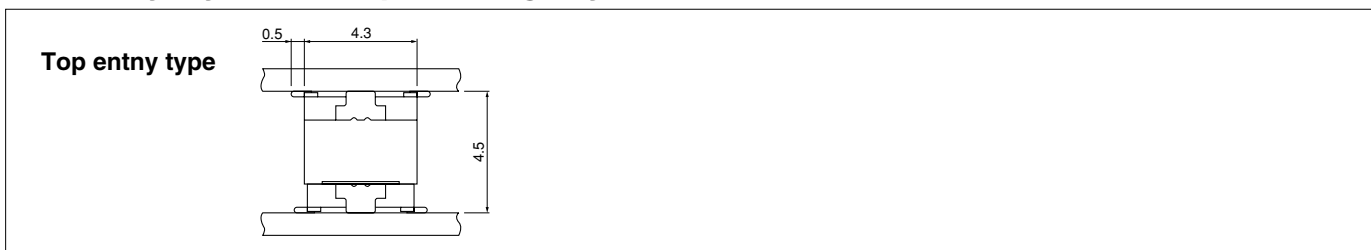
Note: 1. Specifications conform to JIS C 0806. The tape width, connector loading recess square hole dimensions, etc. are determined by the number of circuits and external shape of the connector to be loaded.
2. Specifications are subject to change without prior notice.

PC board layout (viewed from component side) / with polarizing key



Note: 1. Tolerances are non-cumulative: -0.03mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

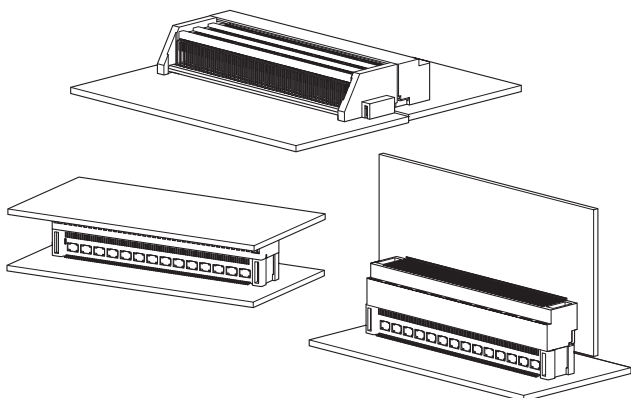
Assembly layout / with polarizing key





JU CONNECTOR

0.6mm pitch/Board-to-board connectors



JU connector is developed upon recent market requirement, which demands higher density for digitized electronic equipment. Various mating combination can be chosen at your purpose vertically/horizontally, both plug and receptacle are available top and side entry. Box type wafer prevents from scattered flux equipped with polarized shape which guides correct mating. Longer mating stroke stabilize and secure mating and contact performance.

- Higher density contributes
- Various combination
- Lower insertion force

Specifications

- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/80m Ω max.
After environmental testing/100m Ω max.
- Insulation resistance: 50M Ω min.
- Withstanding voltage: 100V AC/minute
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

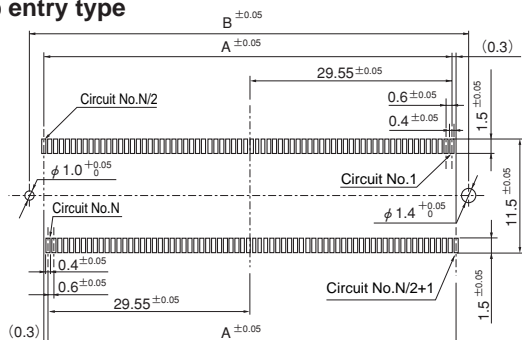
Ⓜ Recognized E60389

Ⓢ Certified LR20812

PC board layout (viewed from component side)

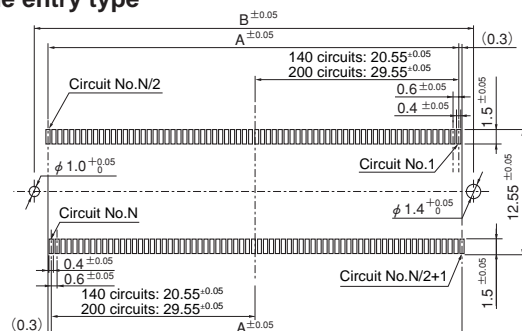
Plug

Top entry type



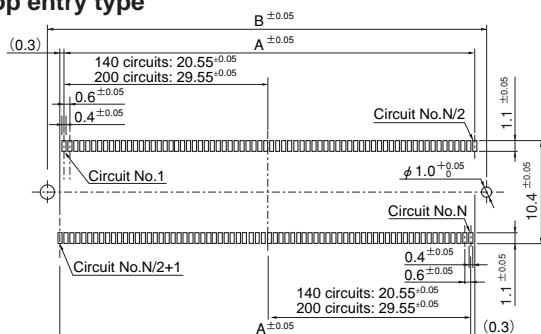
Plug

Side entry type



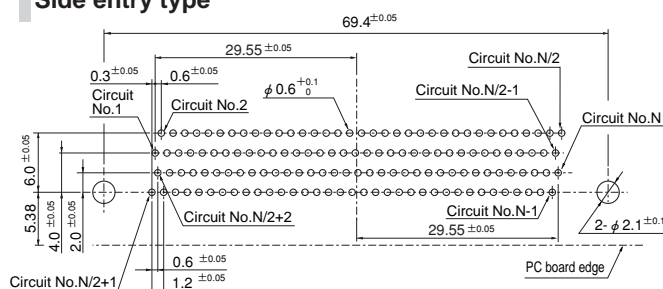
Receptacle

Top entry type



Receptacle

Side entry type



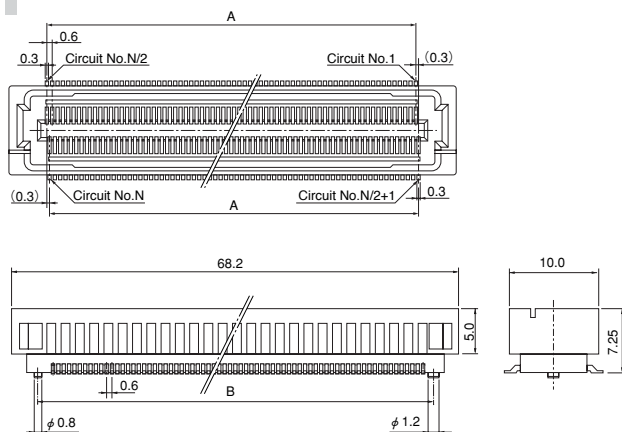
Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

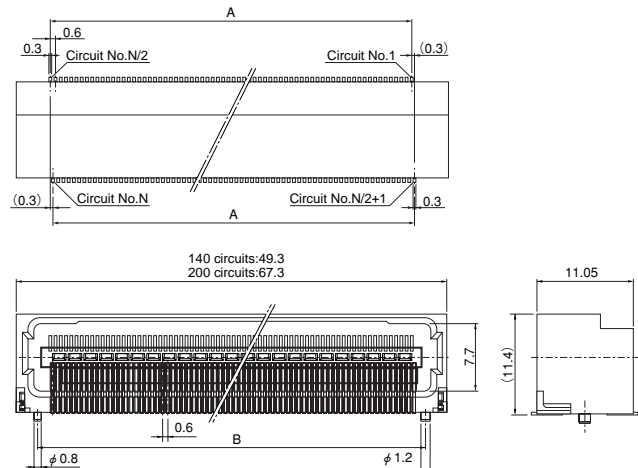
JU CONNECTOR

Plug

Top entry type



Side entry type



Cir- cuits	Model No.		Dimensions(mm)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
140	—	140PS-JUK-G-B(A)	41.4	44.5	—	60
200	200P-JUK-G-B	200PS-JUK-G-B(A)	59.4	62.5	75	60

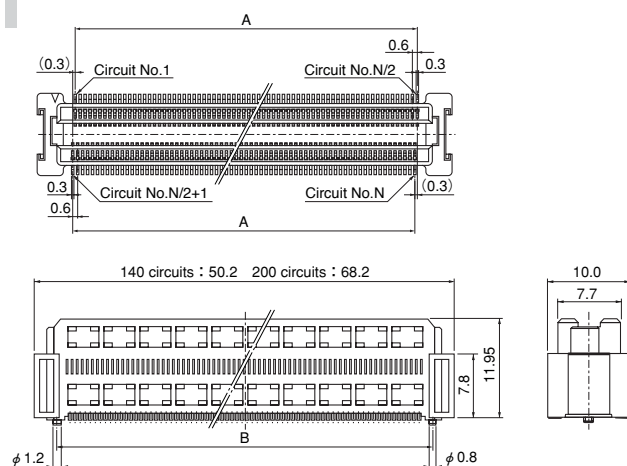
Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated
Housing: LCP, UL94V-0

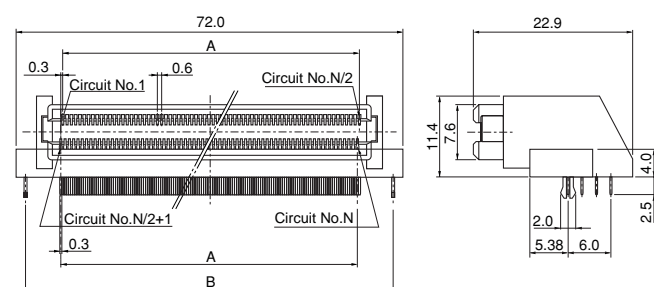
RoHS compliance

Receptacle

Top entry type



Side entry type



Top entry type

Cir- cuits	Model No.	Dimensions(mm)		Q'ty / box
		A	B	
140	140R-JUK-G-B	41.4	44.5	45
200	200R-JUK-G-B	59.4	62.5	45

Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated
Housing: LCP, UL94V-0

RoHS compliance

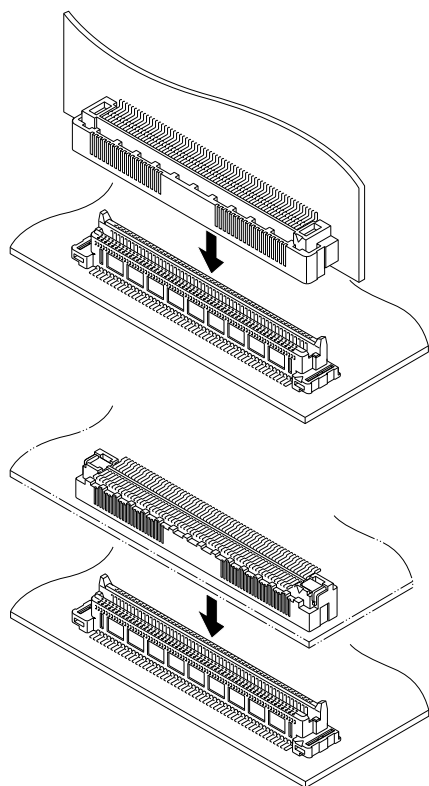
Side entry type

Cir- cuits	Model No.	Dimensions(mm)		Q'ty / box
		A	B	
200	200RS-JUK-GB	59.4	69.4	128

Material and Finish

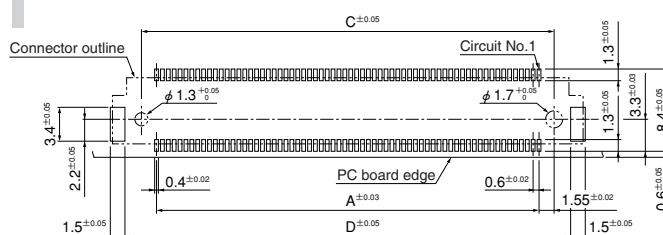
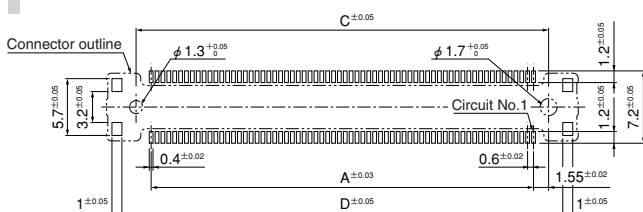
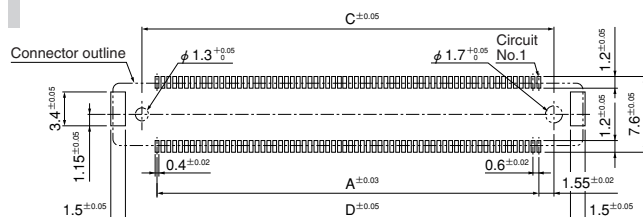
Contact: Copper alloy, nickel-undercoated, Mating part: gold-plated
Solder tail: tin/copper alloy-plated
Housing: LCP, UL94V-0
Locator: Synthetic resin
Solder tab: Copper-alloy, tin-plated (reflow treatment)

RoHS compliance



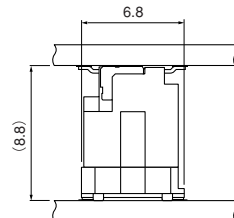
- ***With guide system for mating***
- ***Outstanding click feeling when mating***
- ***Space saving***
- ***Vertical and horizontal mounting***

- Current rating: 0.5AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/50m Ω max.
After environmental testing/100m Ω max.
- Insulation resistance: 50M Ω min.
- Withstanding voltage: 100V AC/minute
- Applicable PC board thickness: 1.6mm max.
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

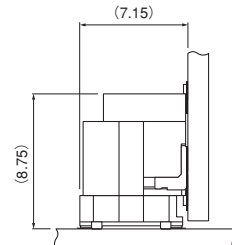


Assembly layout

Top entry type

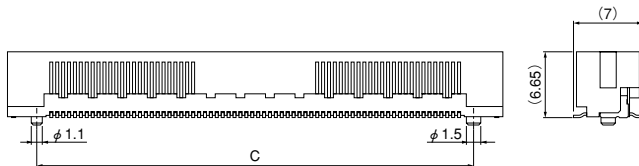
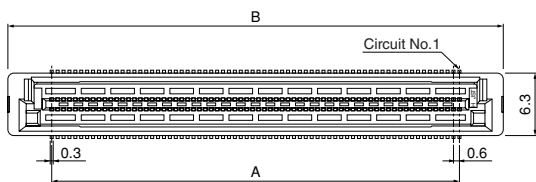


Side entry type

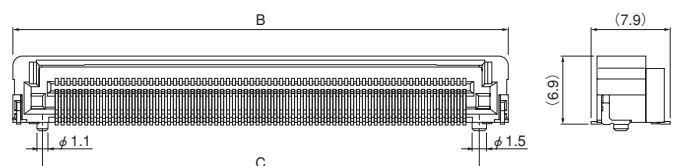
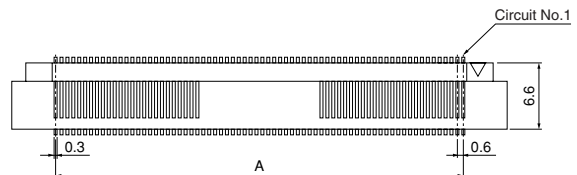


Plug

Top entry type



Side entry type



Top entry type

Circuits	Model No.		Dimensions (mm)			Q'ty/ box
	With boss	Without boss	A	B	C	
140	140P-JUXK-G-B (*)	140P-JUXK-G- (*)	41.4	50.4	44.5	630

Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated
Housing: LCP, UL94V-0, black
Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Note: Products with suction tape are also available.

(*): None ... Without suction tape

T ... With suction tape

Side entry type

Circuits	Model No.		Dimensions (mm)			Q'ty/ box
	With boss	Without boss	A	B	C	
140	140PS-JUXK-G-B	140PS-JUXK-G	41.4	50.4	44.5	630

Material and Finish

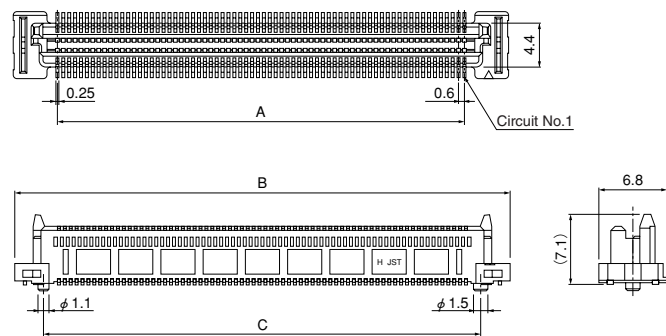
Contact: Copper alloy, nickel-undercoated, gold-plated
Housing: LCP, UL94V-0, black
Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

JUX CONNECTOR

Receptacle

Top entry type



Circuits	Model No.		Dimensions (mm)			Q'ty/ box
	With boss	Without boss	A	B	C	
140	140R-JUXK-G-B- (*)	140R-JUXK-G- (*)	41.4	50.4	44.5	630

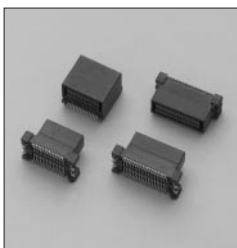
Material and Finish						
Contact: Copper alloy, nickel-undercoated, gold-plated						
Housing: LCP, UL94V-0, black						
Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)						

RoHS compliance This product displays (LF)(SN) on a label.

Note: Products with suction tape are also available.

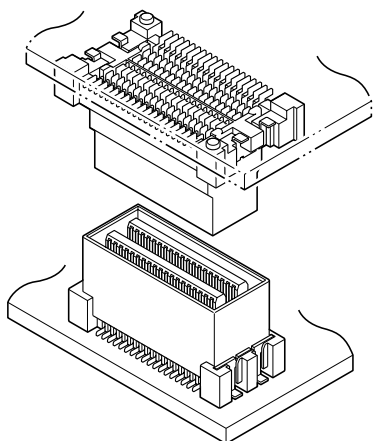
(*): None ... Without suction tape

T ... With suction tape



HTB CONNECTOR

0.635mm pitch/Board-to-board connectors



This connector is 0.635mm pitch SMT type board-to-board connector with parallel and perpendicular connection.

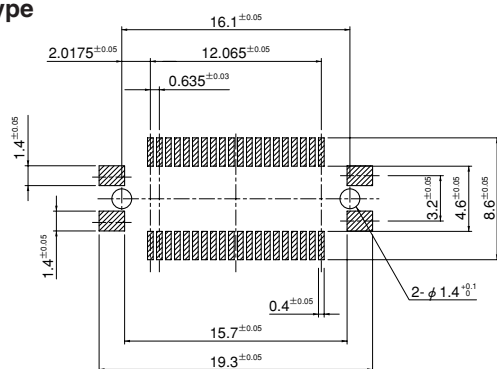
- ***Distortion preventive construction***
- ***High contact reliability***
- ***Absorbing misalignment when mating connector***

Specifications

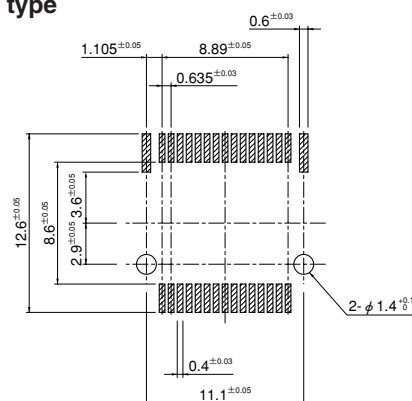
- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -55°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/70m Ω max.
After environmental testing/100m Ω max.
- Insulation resistance: Initial value/ 50m Ω min.
- Withstanding voltage: Initial value/ 500V AC/minute
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

PC board layout (viewed from component side)

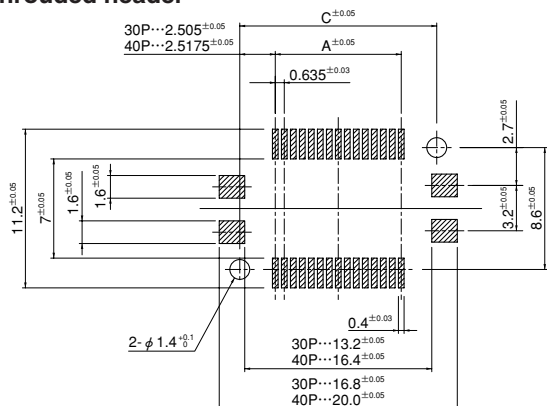
Receptacle Top entry type



Receptacle Side entry type



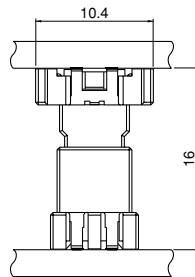
Shrouded header



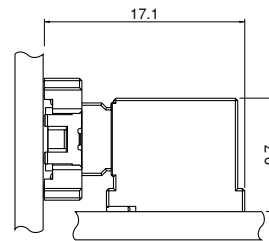
HTB CONNECTOR

Assembly layout

Top entry type

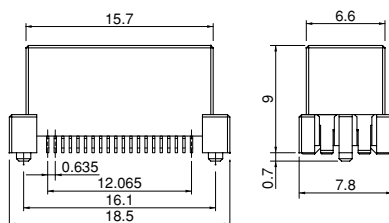
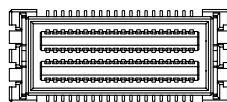


Side entry type

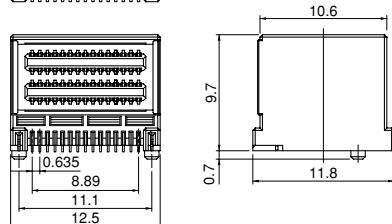
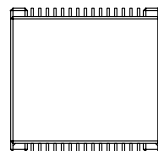


Receptacle

Top entry type



Side entry type



Circuits	Model No.		Q'ty / reel
	Top entry type (Between PC boards 16mm)	Side entry type	
30	—	30RS-HTBK-06-TF	250
40	40R16-HTBK-06-TF	—	300

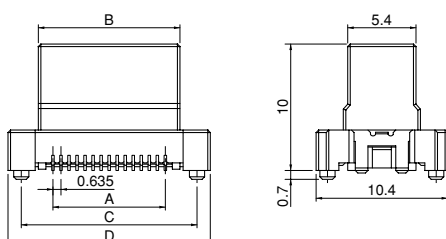
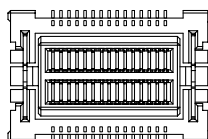
Material and Finish

Contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PA 9T, UL94V-0
Reinforcement: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance

Note: This products listed above are supplied on embossed-tape.

Shrouded header



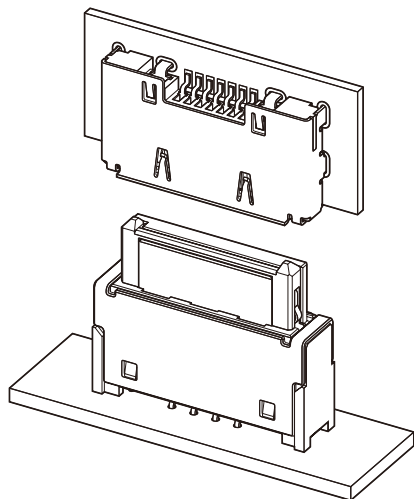
Circuits	Model No.	Dimensions (mm)				Q'ty / reel
		A	B	C	D	
30	30H-HTBK-06-TF	8.89	11.2	13.9	16.0	250
40	40H-HTBK-06-TF	12.065	14.4	17.1	19.2	250

Material and Finish

Contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PA 9T, UL94V-0
Reinforcement: Copper alloy, nickel-undercoated, selective gold-plated

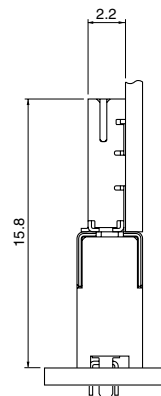
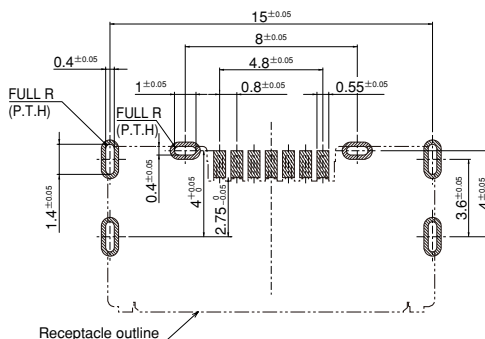
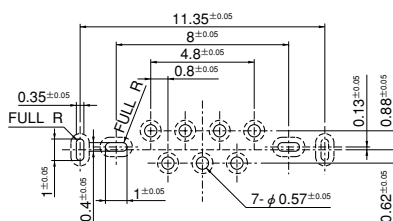
RoHS compliance

Note: This products listed above are supplied on embossed-tape.



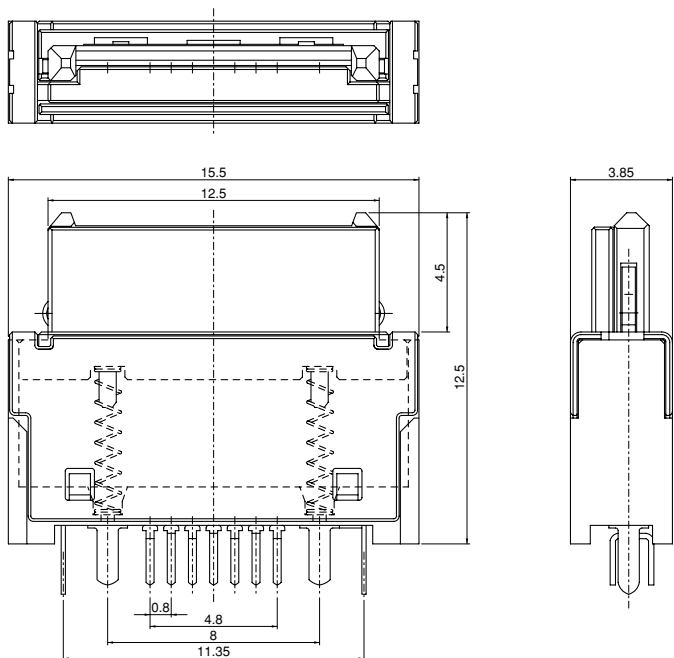
- **Long life design**
- **High-speed transmission (For USB2.0)**
- **Signal line & Power supply line**
(Signal 7 circuits + Power supply 2 circuits)
- **Space saving design**

- Current rating: Signal contact/0.5A AC, DC
Power supply contact/2A AC, DC
 - Voltage rating: Signal contact/30V AC, DC
Power supply contact/30V AC, DC
 - Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
 - Contact resistance:
Signal contact Initial value/70m Ω max.
After environmental testing/100m Ω max.
Power supply contact Initial value/20m Ω max.
After environmental testing/40m Ω max.
 - Insulation resistance: 100M Ω min.
 - Withstanding voltage: Signal contact 500V AC/minute
Power supply contact 500V AC/minute
 - Applicable PC board thickness: Receptacle/0.7mm
Plug/1.0mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.



CRK CONNECTOR

Plug

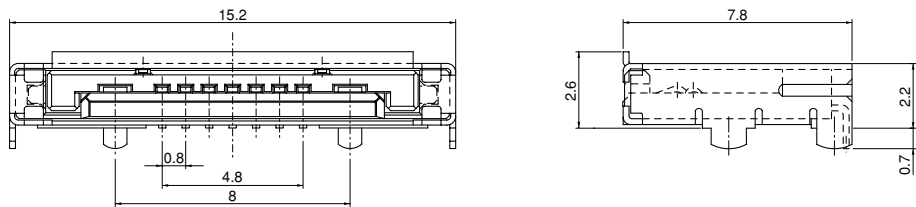


Circuits	Model No.	Q'ty / box
9	09PTD-CRK-GE	600

Material and Finish
Housing: Heat resisting resin, UL94V-0, black Contact: Copper alloy, nickel-undercoated, selective gold-plated Shell: Copper alloy, nickel-undercoated, tin-plated Shutter: Heat resisting resin, UL94V-0, black Cover shell: Copper alloy, tin-plated Spring: Stainless steel wire

RoHS compliance This product displays (LF) on a label.

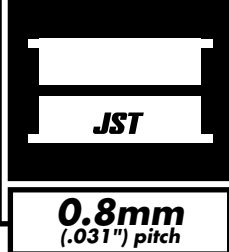
Receptacle



Circuits	Model No.	Q'ty / box
9	09RSA-CRK-GE	1,800

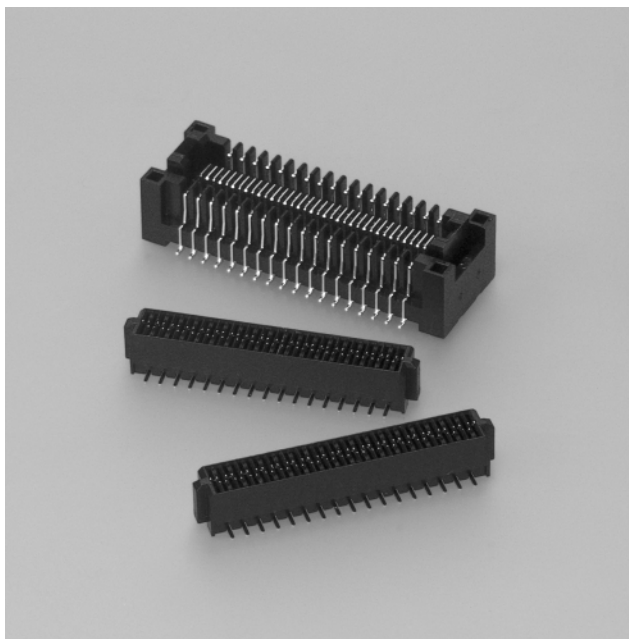
Material and Finish
Housing: Heat resisting resin, UL94V-0 Contact: Copper alloy, nickel-undercoated, selective gold-plated Shell: Copper alloy, nickel-undercoated, tin-plated Shutter: Heat resisting resin, UL94V-0 Spring: Stainless steel wire

RoHS compliance This product displays (LF)(SN) on a label.

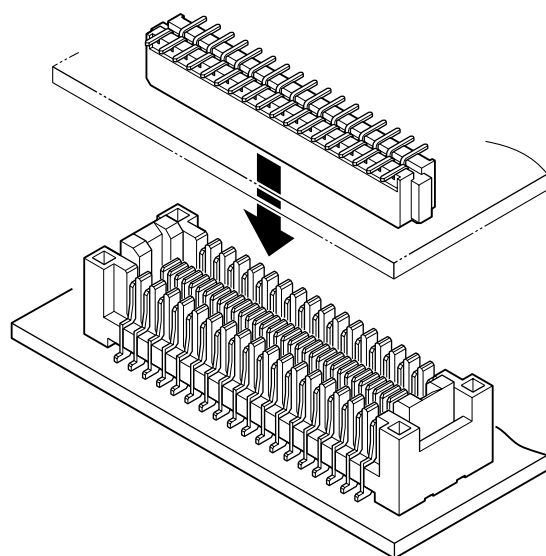


JFC CONNECTOR

Board-to-board connectors



This 0.8mm pitch connector is developed for the car audio industry and is able to compensate for misalignment of up to 0.5mm on all three directions of X, Y and Z axes between the plug and receptacle when they are mating.



Features

- ***0.8mm pitch, 35-circuits and 10.5mm stacking height***

The pitch and circuit number are designed to meet miniaturized multifunctional car audio and navigation equipment.

- ***Compensates for misalignment***

To make the assembly process at customers' site easier, misalignment of 0.5mm on X, Y and Z axes will be compensated for.

- ***Realized current rating of 1.3 Amps***

Realized 1.3A of current rating by having selected a high conductivity material for the contact.

- ***Applicable to automatic surface mounting technology***

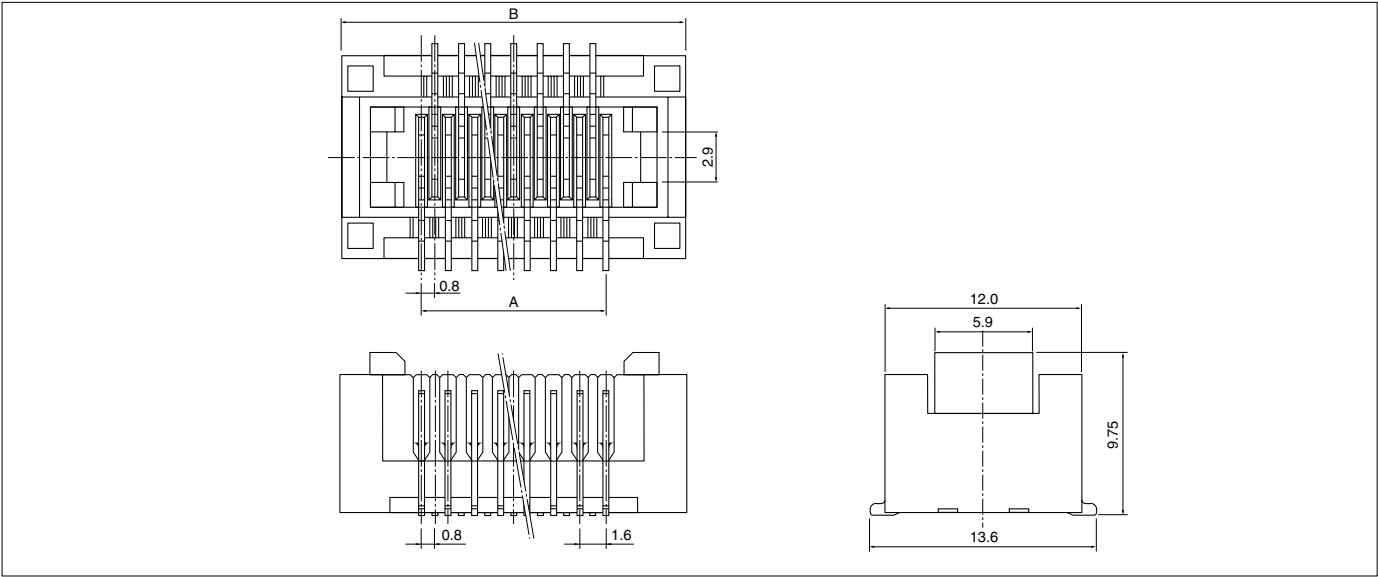
By providing a suction cap on the plug this embossed tape packaging connector series is applicable to automatic surface mounting.

Specifications

- Current rating: 1.3A AC, DC
- Voltage rating: 125V AC, DC
- Temperature range: -40°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/50m Ω max.
After environmental testing/30m Ω max.
(variation from initial value)
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 500V AC/minute
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

JFC CONNECTOR

Plug



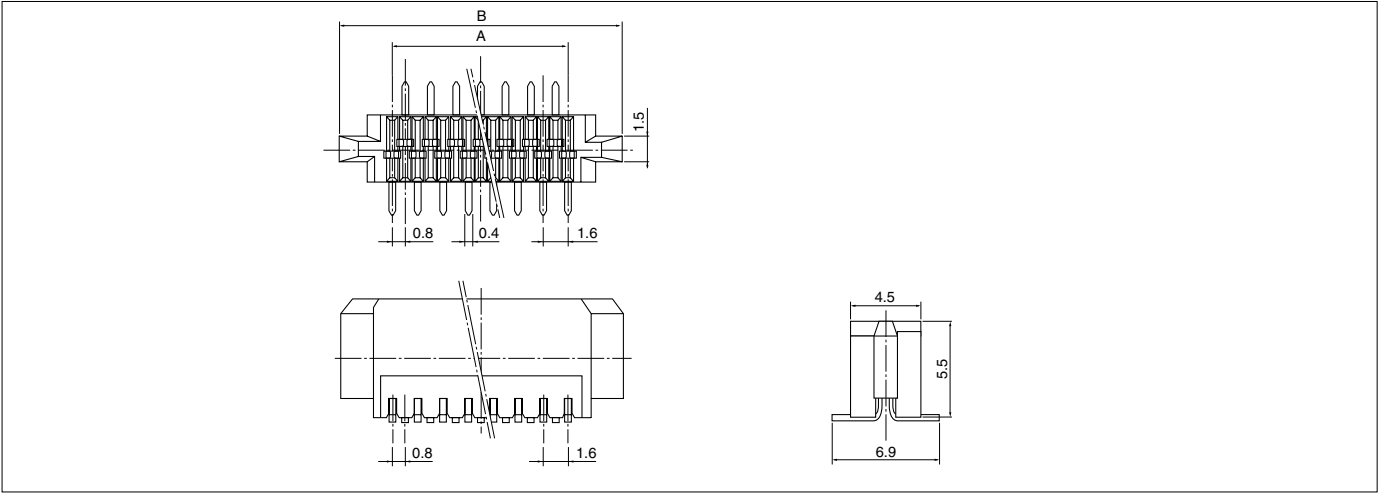
Cir- cuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
35	35P-0.8JFCK-TF	27.2	36.9	400

Material and Finish

Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Housing: Heat resisting resin, UL94V-0
Cap: Heat resisting resin, UL94V-0

RoHS compliance This product displays (LF)(SN) on a label.

Receptacle



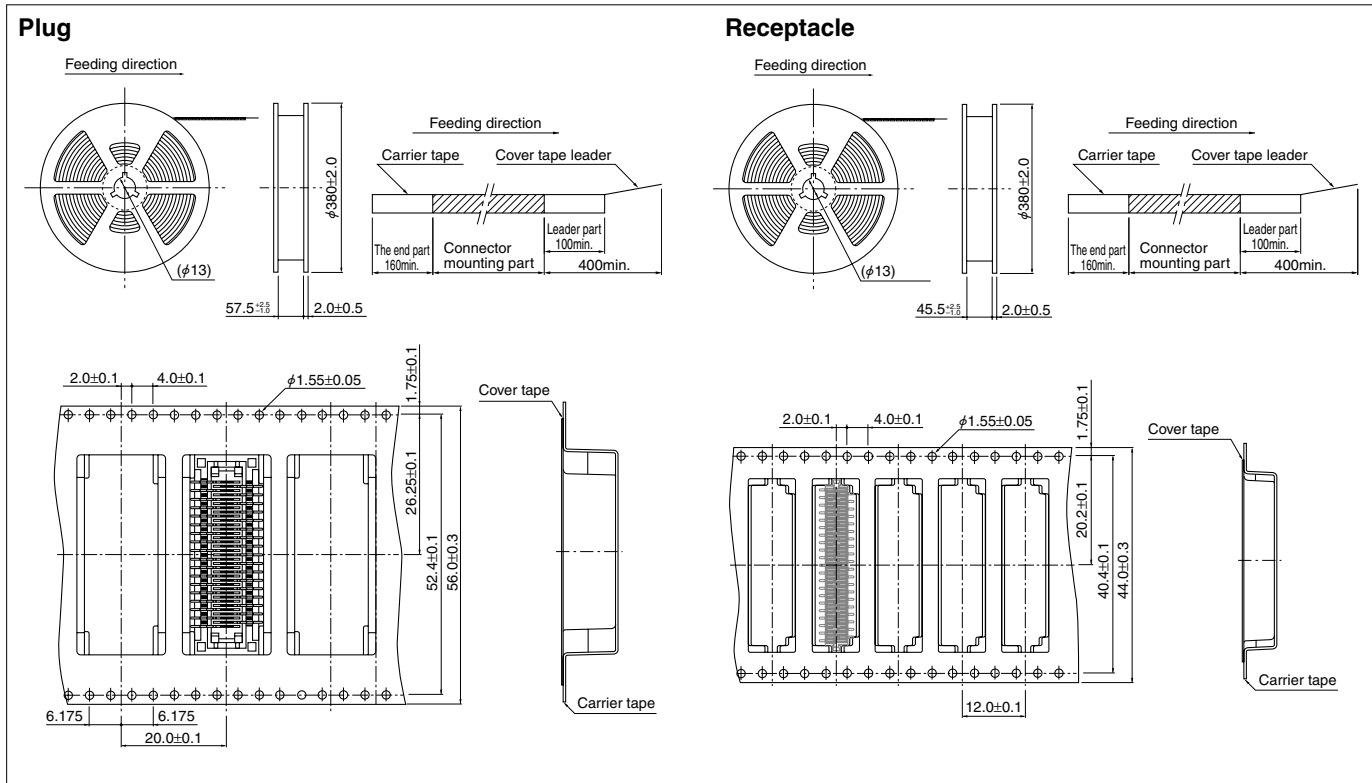
Cir- cuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
35	35R-0.8JFCK-TF	27.2	31.4	1,000

Material and Finish

Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Housing: Heat resisting resin, UL94V-0

RoHS compliance This product displays (LF)(SN) on a label.

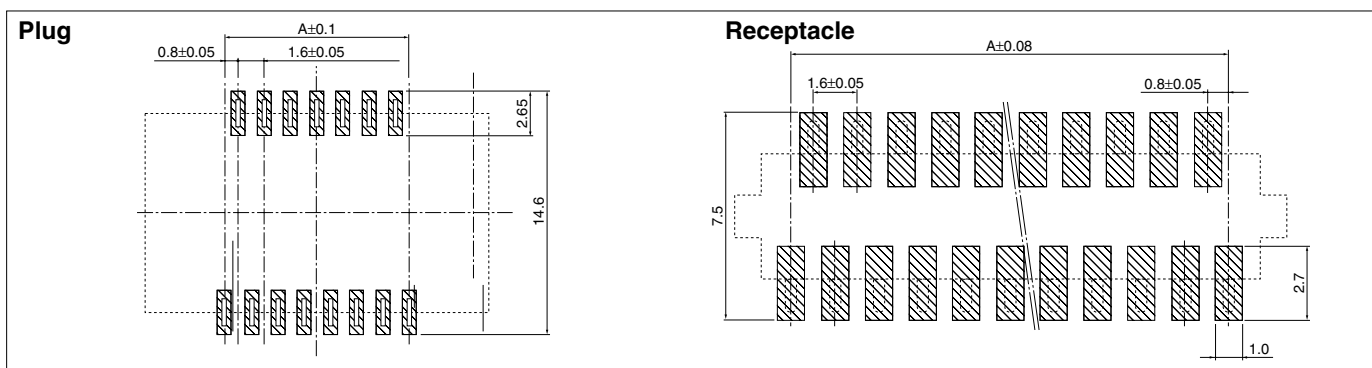
Taping specifications



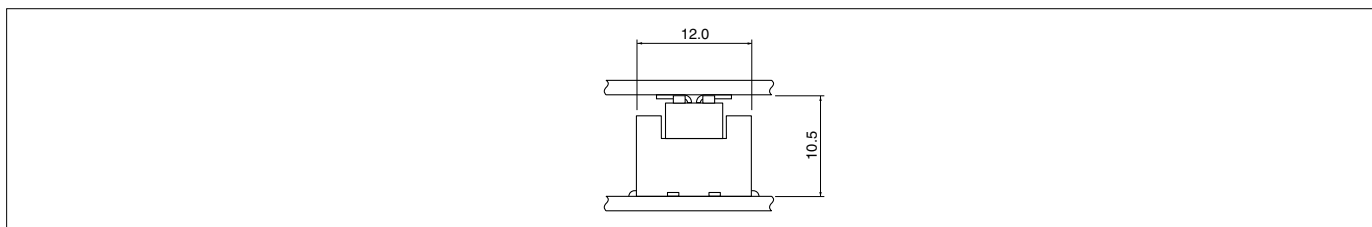
Note:

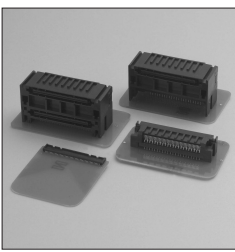
- Specifications conform to JIS C 0806. The tape width, connector loading recess square hole dimensions, etc. are determined by the number of circuits and external shape of the connector to be loaded.
- Specifications are subject to change without prior notice.

PC board layout (viewed from component side)



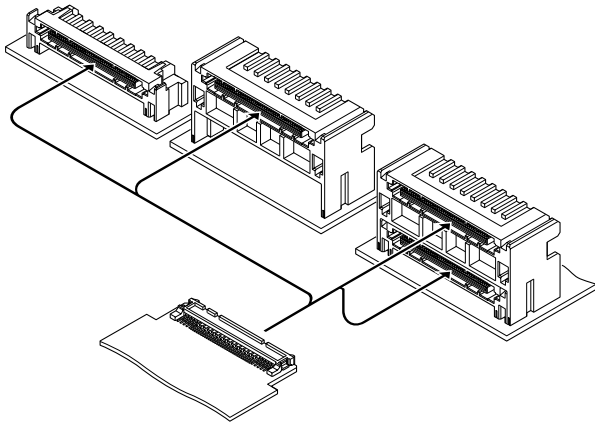
Assembly layout





RHM CONNECTOR

1.0mm pitch/Board-to-board connectors



The plug consists of upper and lower parts in order to save space.

This connector enables also flexible application by using either upper or lower parts individually.

- The upper and lower parts of plug can be used individually
- Reversible connection
- 8 positioning keys can be set

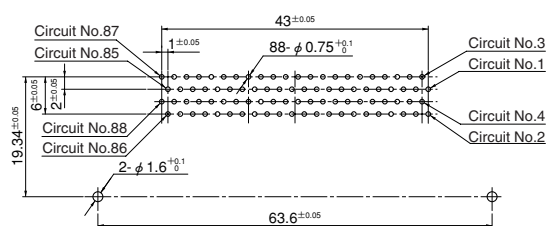
Specifications

- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/100m Ω max.
After environmental testing/150m Ω max.
- Insulation resistance: 50M Ω min.
- Withstanding voltage: 100V AC/minute
- Applicable PC board thickness: Receptacle/1.2mm
Plug/1.6mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

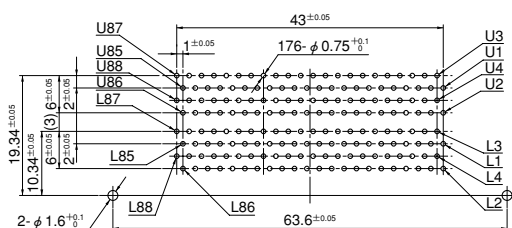
PC board layout (viewed from component side)

Plug

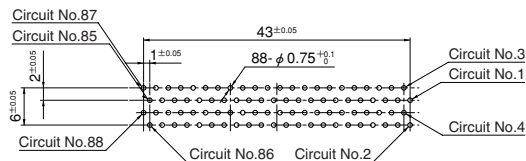
● Upper



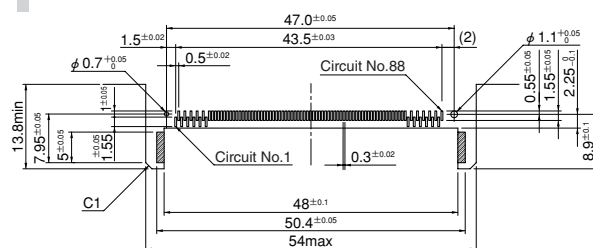
● Upper and Lower



● Lower



Receptacle



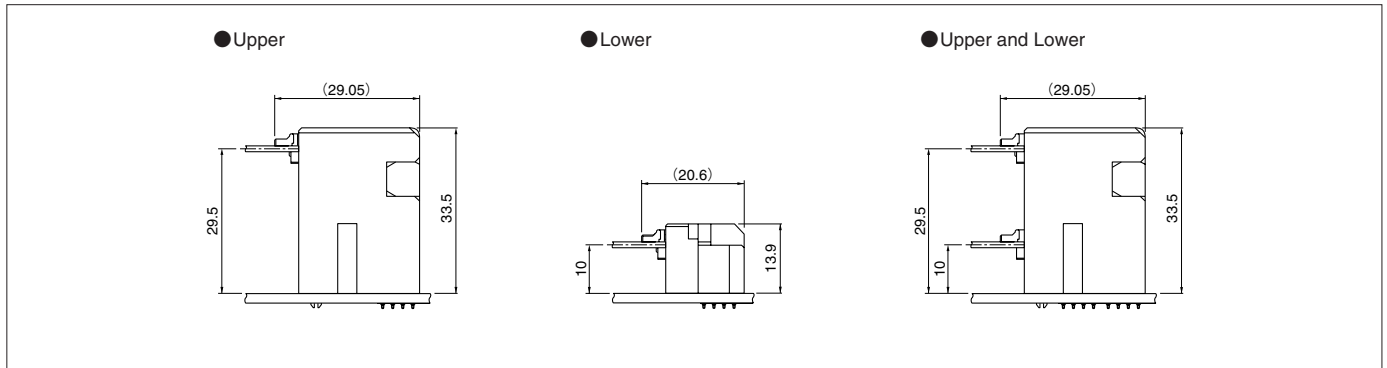
Note: 1. Tolerances for pierced hole pitch and pattern pitch are non-cumulative: ±0.05mm (Plug) and ±0.03mm (Receptacle) for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method.

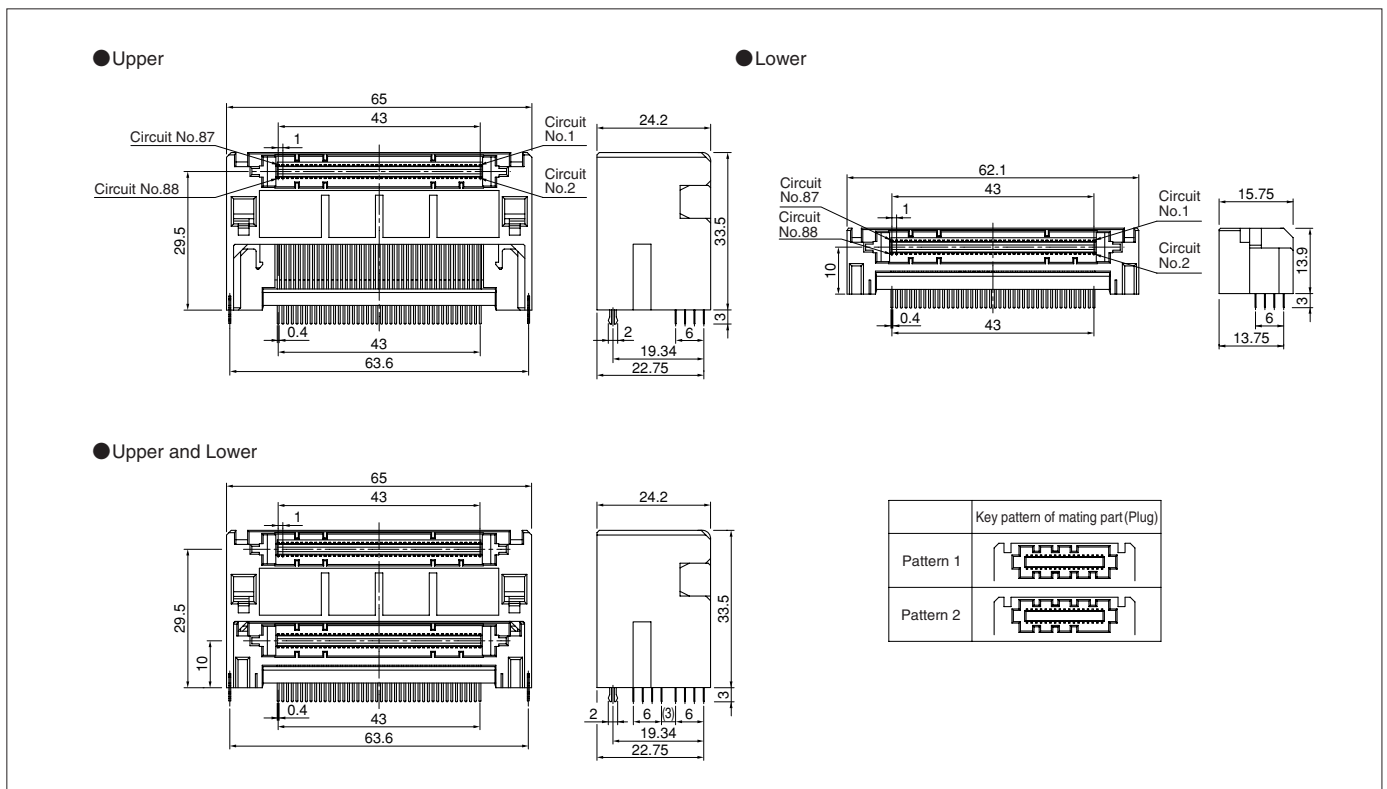
The dimensions above should serve as a guideline. Contact JST for details.

RHM CONNECTOR

Assembly layout



Plug



Upper

Circuits	Key pattern of mating part	Model No.	Q'ty / box
88	Pattern 1	RHM-88PU-SDK11-1C	72
	Pattern 2	RHM-88PU-SDK11-2C	

Lower

Circuits	Key pattern of mating part	Model No.	Q'ty / box
88	Pattern 1	RHM-88PL-SDK11-1	198

Upper and Lower

Circuits	Key pattern of mating part	Model No.	Q'ty / box
88	Upper: Pattern 1 Lower: Pattern 1	RHM-176P-SDK11-U1L1C	72
	Upper: Pattern 2 Lower: Pattern 1	RHM-176P-SDK11-U2L1C	

Material and Finish

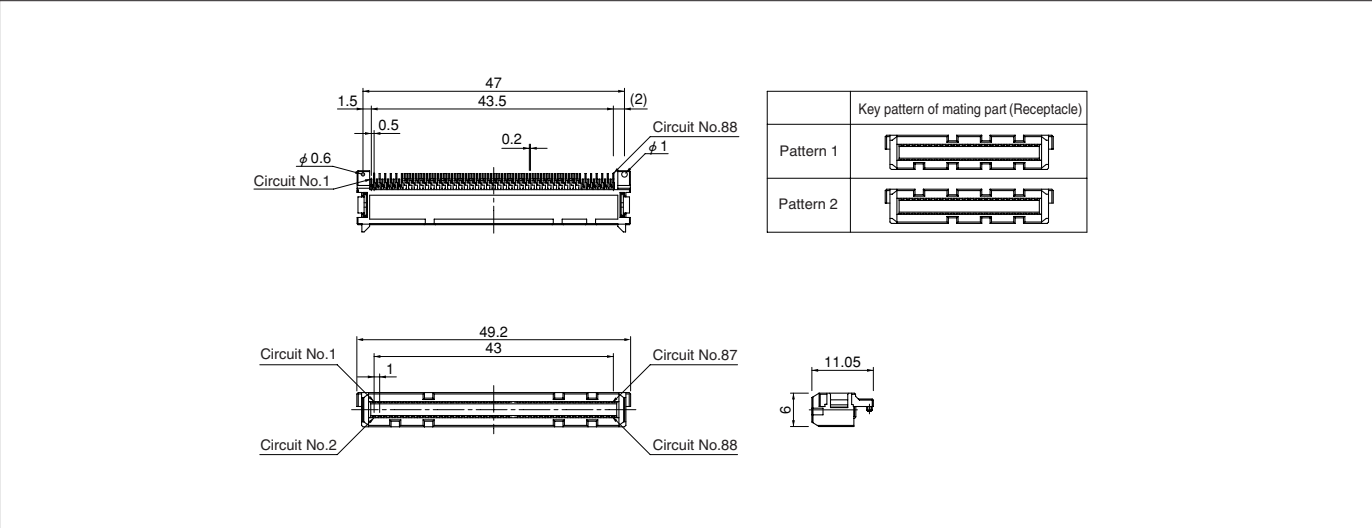
Contact: Copper alloy, nickel-undercoated, Mating part; gold-plated
Solder tail; tin/copper alloy-plated

Housing: Glass-filled PBT, UL94V-0
Locator: Glass-filled PBT, UL94V-0
Cover (Upper): Glass-filled PBT, UL94V-0
Reinforcing hook: Copper alloy, tin-plated (reflow treatment)

RoHS compliance

RHM CONNECTOR

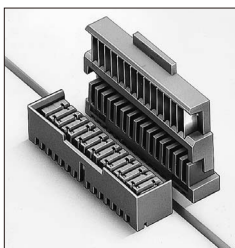
Receptacle



Circuits	Key pattern of mating part	Model No.	Q'ty / box
88	Pattern 1	RHM-88R-SSK01-1	648
	Pattern 2	RHM-88R-SSK01-2	

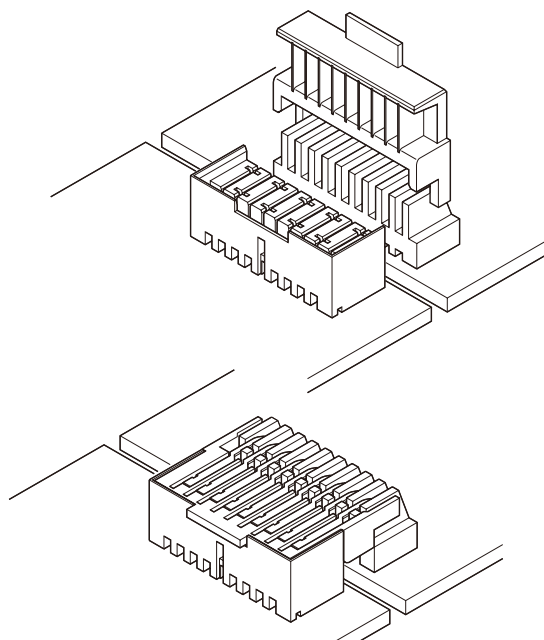
Material and Finish
Contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled synthetic resin, UL94V-0
Solder tab: Copper alloy, nickel-undercoated, gold-plated

RoHS compliance



1.25FJ CONNECTOR

1.25mm pitch/Board-to-board connectors



The 1.25FJ connector is a 1.25mm pitch board-to-board connector. Its plug consists of a unique flexible hinge that absorbs circuit board misalignment. Board-to-board connection requires less labor and is more reliable because the connection can be made without the use of harnesses after the printed circuit boards are installed in their enclosures.

- Low profile
- Allows connection after mounting
- Assures a reliable connection

Specifications

- Current rating: 0.5A(1.0A :1.25FJ-N type) AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance:
 - Short type.....Initial value/40m Ω max.
After environmental testing/60m Ω max.
 - Long type.....Initial value/70m Ω max.
After environmental testing/90m Ω max.
 - 1.25FJ-N type... Initial value/50m Ω max.
After environmental testing/100m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable PC board thickness: 1.6mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

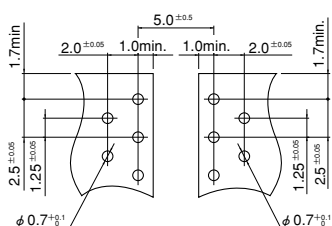
Standards

Ⓜ Recognized E60389

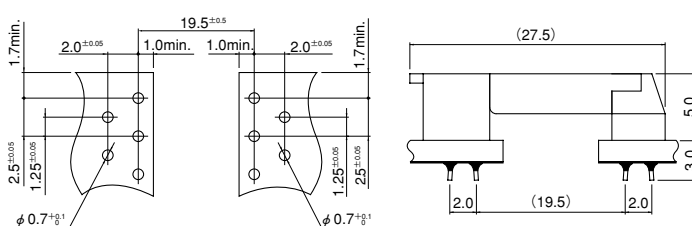
Ⓢ Certified LR20812

PC board layout (viewed from component side) and Assembly layout

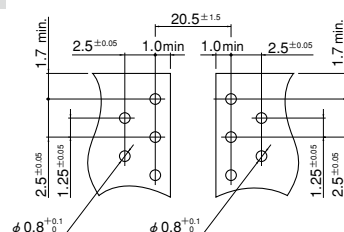
Short type



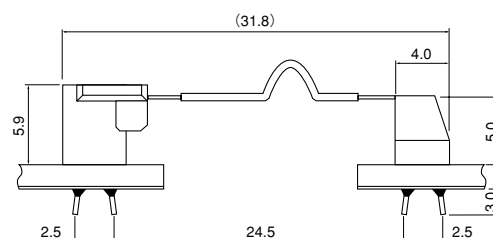
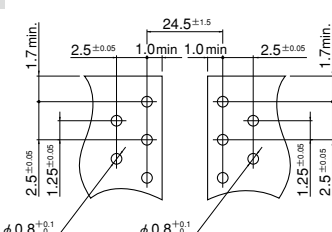
Long type



1.25FJ-N type(250)



1.25FJ-N type(280)

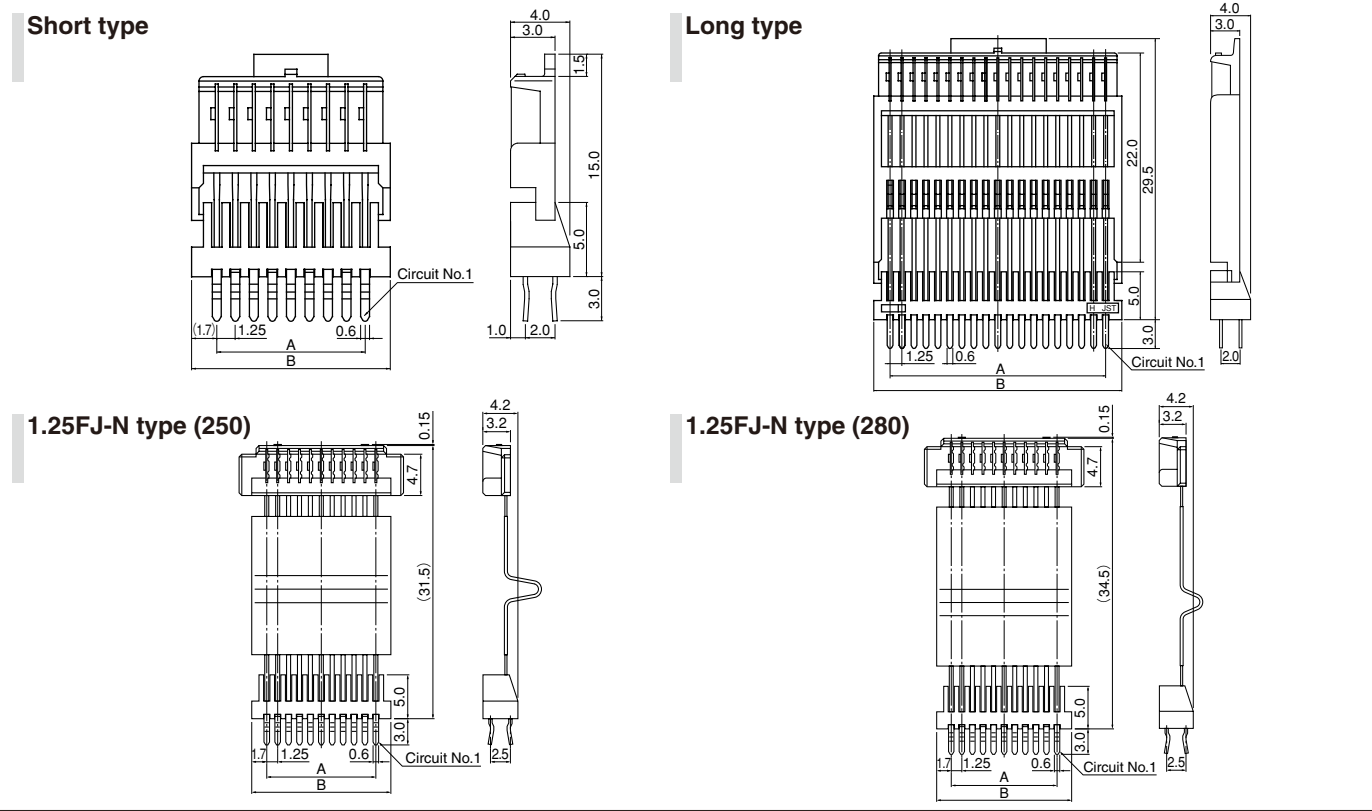


Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

1.25FJ CONNECTOR

Plug



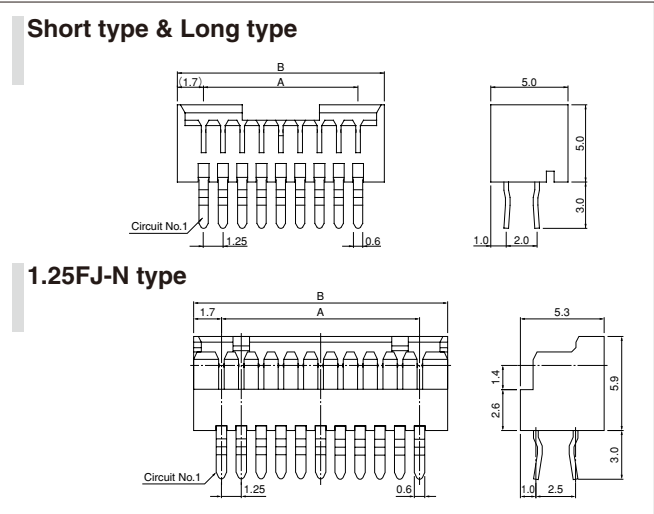
Circuits	Model No.				Dimensions (mm)		Q'ty / box			
	Short type	Long type	1.25FJ-N type		A	B	Short type	Long type	1.25FJ-N type	
			250 type	280 type					250 type	280 type
7	—	—	07P250K-1.25FJNA	07P280K-1.25FJN	7.5	10.9	—	—	400	400
9	09P-1.25FJ	—	—	—	10.0	13.4	120	—	—	—
11	11P-1.25FJ	—	11P250K-1.25FJNA	11P280K-1.25FJN	12.5	15.9	120	—	280	280
13	13P-1.25FJ	—	13P250K-1.25FJNA	13P280K-1.25FJN	15.0	18.4	120	—	280	280
15	15P-1.25FJ	—	—	—	17.5	20.9	120	—	—	—
19	19P-1.25FJ	19P215S-1.25FJ	19P250K-1.25FJNA	19P280K-1.25FJN	22.5	25.9	120	280	200	200
21	21P-1.25FJ	—	—	—	25.0	28.4	120	—	—	—

Material and Finish

Contact: Short type & Long type / Phosphor bronze, tin-plated (reflow treatment)
1.25FJ-N type / Copper-alloy, tin-plated (reflow treatment)
Housing: Glass-filled PA 66, UL94V-0

RoHS compliance

Receptacle

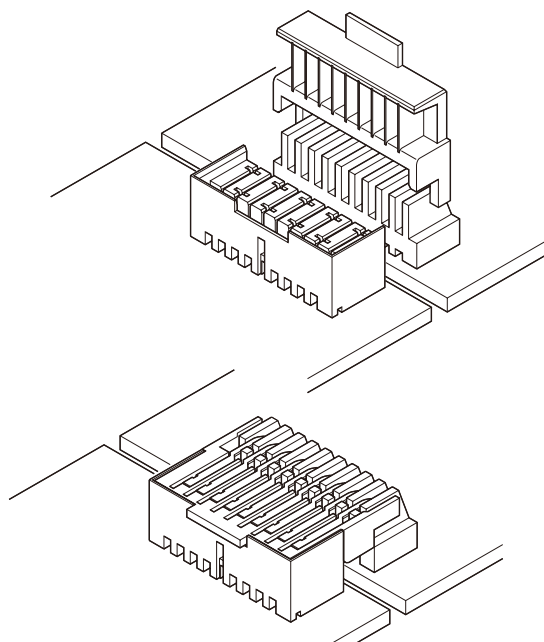


Circuits	Model No.		Dimensions (mm)		Q'ty / box	
	Short type & Long type	1.25FJ-N type	A	B	Short type & Long type	1.25FJ-N type
7	—	07RK-1.25FJN	7.5	10.9	—	1,710
9	09R-1.25FJ	—	10.0	13.4	500	—
11	11R-1.25FJ	11RK-1.25FJN	12.5	15.9	500	1,170
13	13R-1.25FJ	13RK-1.25FJN	15.0	18.4	500	990
15	15R-1.25FJ	—	17.5	20.9	500	—
19	19R-1.25FJ	19RK-1.25FJN	22.5	25.9	250	720
21	21R-1.25FJ	—	25.0	28.4	200	—

Material and Finish

Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Housing: Glass-filled PA 66, UL94V-0

RoHS compliance This product displays (LF)(SN) on a label.

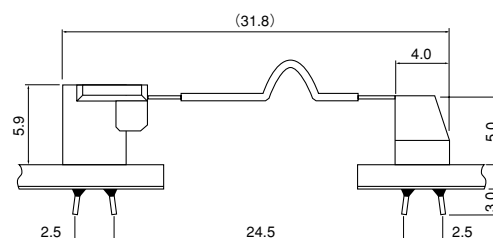
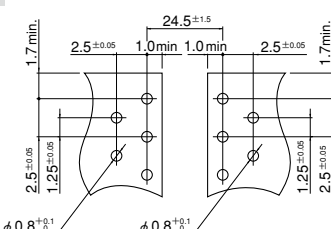
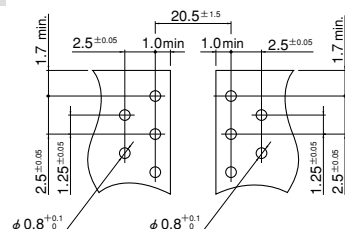
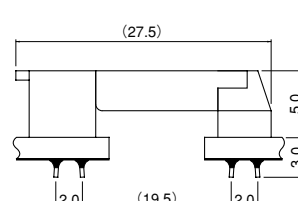
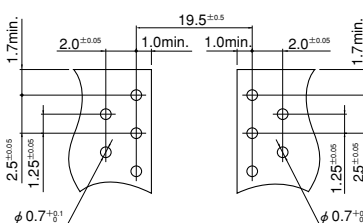
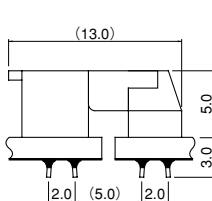
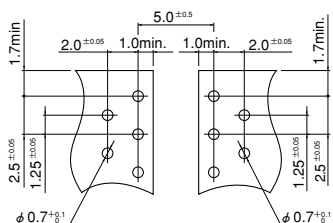


The 1.25FJ connector is a 1.25mm pitch board-to-board connector. Its plug consists of a unique flexible hinge that absorbs circuit board misalignment. Board-to-board connection requires less labor and is more reliable because the connection can be made without the use of harnesses after the printed circuit boards are installed in their enclosures.

- **Low profile**
- **Allows connection after mounting**
- **Assures a reliable connection**

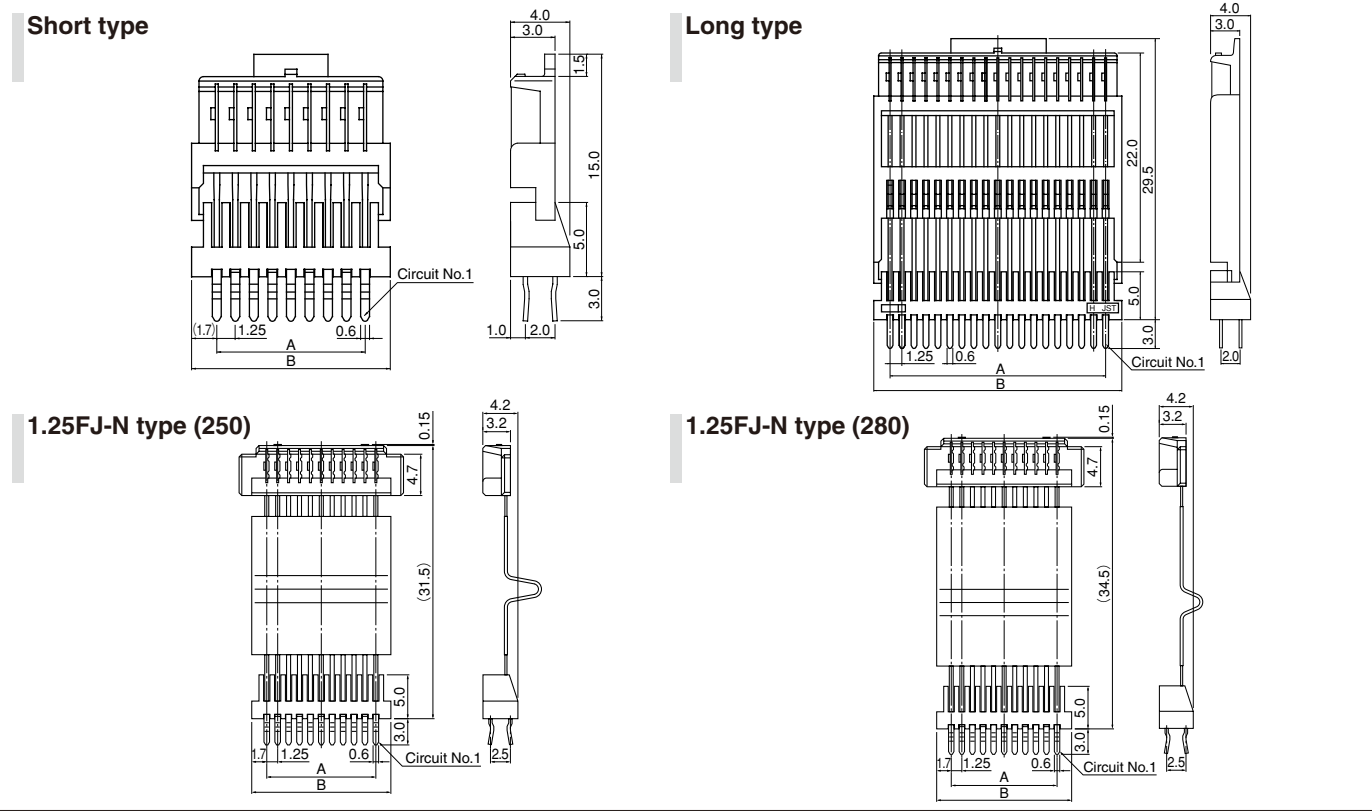
- Current rating: 0.5A(1.0A :1.25FJ-N type) AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance:
 - Short type.....Initial value/40m Ω max.
After environmental testing/60m Ω max.
 - Long type.....Initial value/70m Ω max.
After environmental testing/90m Ω max.
 - 1.25FJ-N type... Initial value/50m Ω max.
After environmental testing/100m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable PC board thickness: 1.6mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

- UL** Recognized E60389
SP Certified LR20812



1.25FJ CONNECTOR

Plug



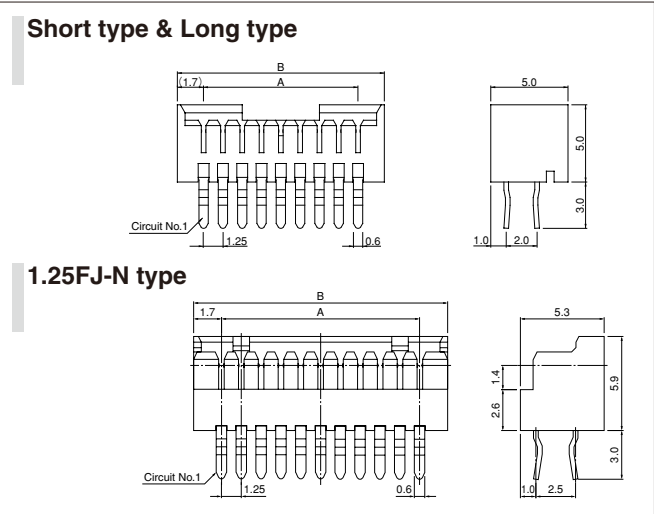
Circuits	Model No.				Dimensions (mm)		Q'ty / box			
	Short type	Long type	1.25FJ-N type		A	B	Short type	Long type	1.25FJ-N type	
			250 type	280 type					250 type	280 type
7	—	—	07P250K-1.25FJNA	07P280K-1.25FJN	7.5	10.9	—	—	400	400
9	09P-1.25FJ	—	—	—	10.0	13.4	120	—	—	—
11	11P-1.25FJ	—	11P250K-1.25FJNA	11P280K-1.25FJN	12.5	15.9	120	—	280	280
13	13P-1.25FJ	—	13P250K-1.25FJNA	13P280K-1.25FJN	15.0	18.4	120	—	280	280
15	15P-1.25FJ	—	—	—	17.5	20.9	120	—	—	—
19	19P-1.25FJ	19P215S-1.25FJ	19P250K-1.25FJNA	19P280K-1.25FJN	22.5	25.9	120	280	200	200
21	21P-1.25FJ	—	—	—	25.0	28.4	120	—	—	—

Material and Finish

Contact: Short type & Long type / Phosphor bronze, tin-plated (reflow treatment)
1.25FJ-N type / Copper-alloy, tin-plated (reflow treatment)
Housing: Glass-filled PA 66, UL94V-0

RoHS compliance

Receptacle

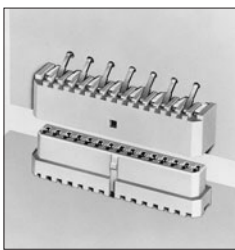


Circuits	Model No.		Dimensions (mm)		Q'ty / box	
	Short type & Long type	1.25FJ-N type	A	B	Short type & Long type	1.25FJ-N type
7	—	07RK-1.25FJN	7.5	10.9	—	1,710
9	09R-1.25FJ	—	10.0	13.4	500	—
11	11R-1.25FJ	11RK-1.25FJN	12.5	15.9	500	1,170
13	13R-1.25FJ	13RK-1.25FJN	15.0	18.4	500	990
15	15R-1.25FJ	—	17.5	20.9	500	—
19	19R-1.25FJ	19RK-1.25FJN	22.5	25.9	250	720
21	21R-1.25FJ	—	25.0	28.4	200	—

Material and Finish

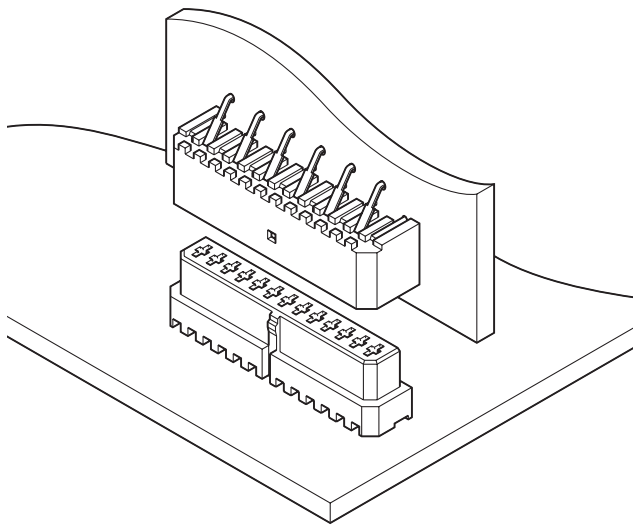
Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Housing: Glass-filled PA 66, UL94V-0

RoHS compliance This product displays (LF)(SN) on a label.



JE CONNECTOR

1.25mm pitch/Board-to-board connectors



The JE connector is a compact, board-to-board connector only 6.8mm high and 3.6mm wide. Its mating part has a 1.25mm pitch, single row construction. High contact pressure dual beam fork contacts are combined with a housing lock mechanism to ensure a reliable connection.

- A compact design to meet today's needs
- Secure locking and reliable connection
- Box shaped housing
- Easy mounting and no flux problems

Specifications

- Current rating: 1.0A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/20m Ω max.
After environmental testing/40m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

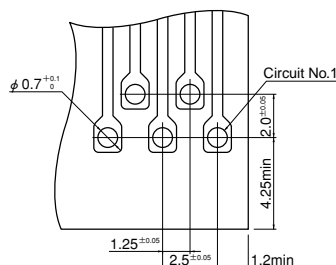
Standards

Recognized E60389

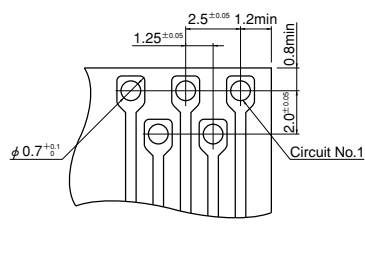
Certified LR20812

PC board layout (viewed from soldering side) and Assembly layout

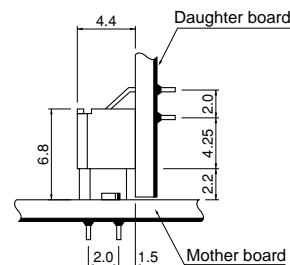
Plug



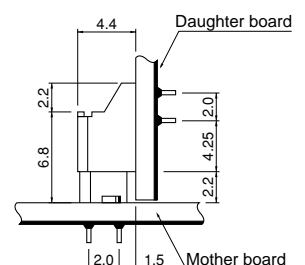
Receptacle



Without stopper



With stopper

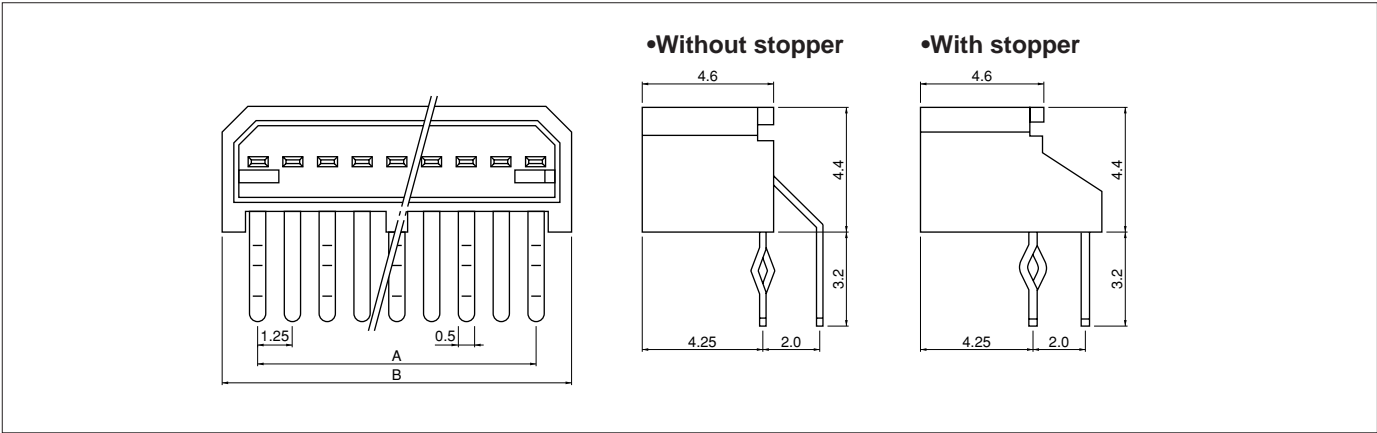


Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Note: The daughter board should be secured. For details of the securing method, contact JST.

JE CONNECTOR

Plug

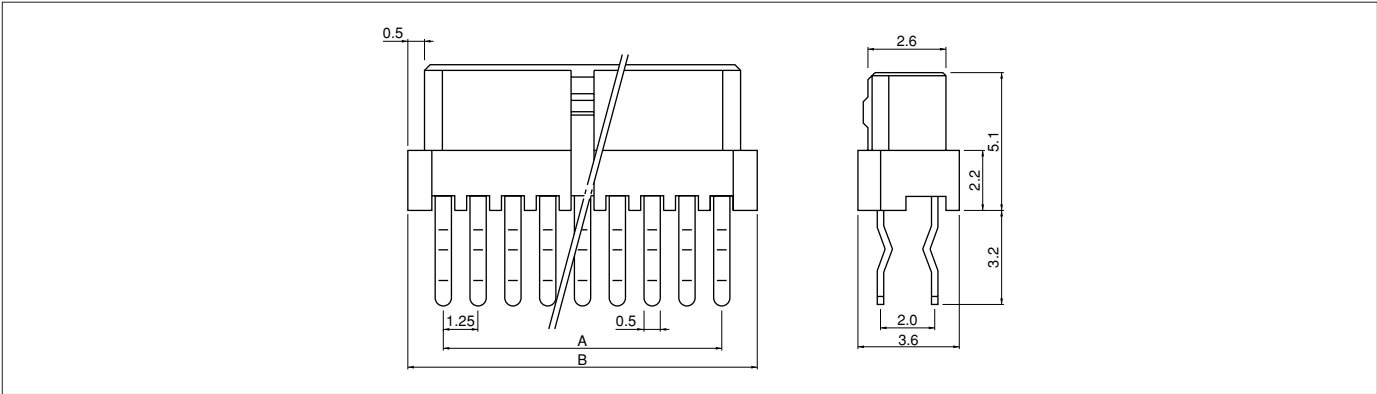


Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Without stopper	With stopper	A	B	
5	05PS-JE	05PSL-JE	5.0	7.4	1,400
7	07PS-JE	07PSL-JE	7.5	9.9	1,050
9	09PS-JE	09PSL-JE	10.0	12.4	800
11	11PS-JE	11PSL-JE	12.5	14.9	700
13	13PS-JE	13PSL-JE	15.0	17.4	600
15	15PS-JE	15PSL-JE	17.5	19.9	500
17	17PS-JE	17PSL-JE	20.0	22.4	450
19	19PS-JE	19PSL-JE	22.5	24.9	400

Material and Finish					
Contact: Brass, tin-plated (reflow treatment)					
Housing: Glass-filled PA 66, UL94V-0					

RoHS compliance

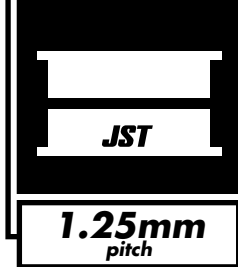
Receptacle



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
5	05R-JE	5.0	7.4	1,000
7	07R-JE	7.5	9.9	1,000
9	09R-JE	10.0	12.4	1,700
11	11R-JE	12.5	14.9	1,400
13	13R-JE	15.0	17.4	1,200
15	15R-JE	17.5	19.9	1,000
17	17R-JE	20.0	22.4	900
19	19R-JE	22.5	24.9	800

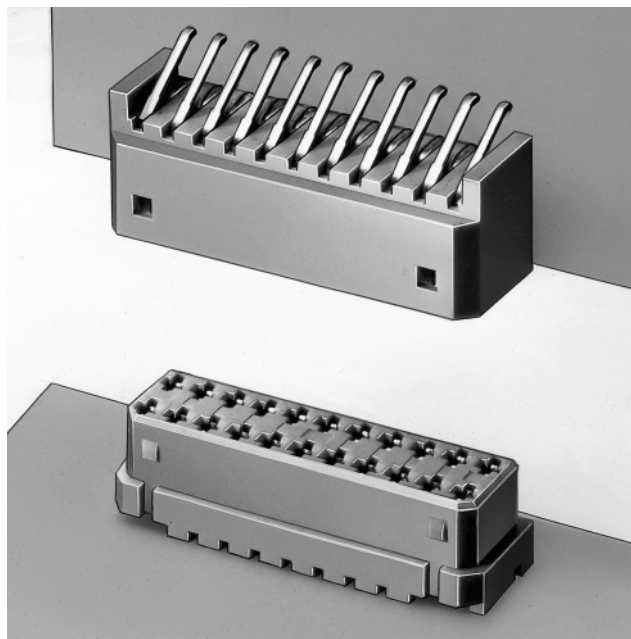
Material and Finish				
Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)				
Housing: Glass-filled PA 66, UL94V-0				

RoHS compliance This product displays (LF)(SN) on a label.

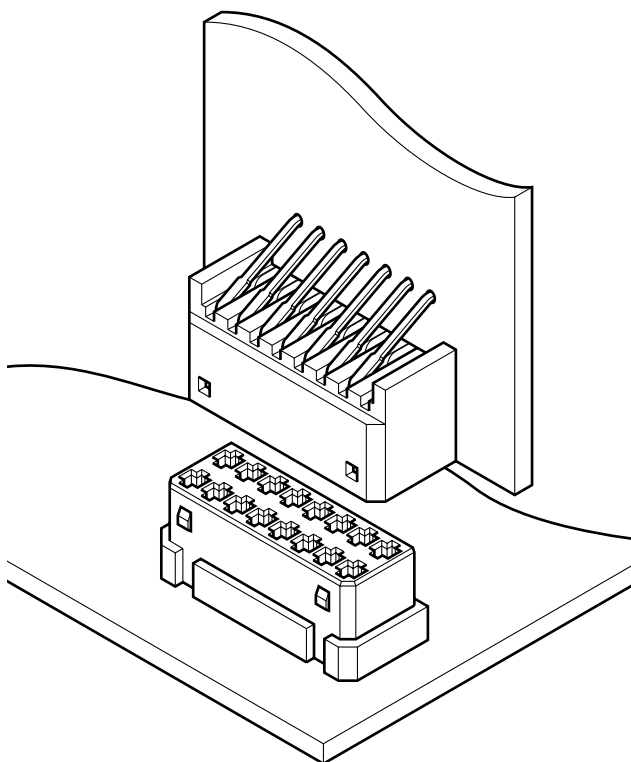


JED CONNECTOR

Board-to-board connectors



This 1.25mm pitch dual-in-line, board-to-board connector. Double-sided, high-pressure contacts and a housing locking feature provide reliable connections.



Feature

• **A compact design to meet today's needs**

This small connector has a 1.25mm pitch dual-in-line construction at both the mating and printed circuit board sides. It has a mounting height of only 7.0mm and a thickness of 4.6mm.

• **Positive housing lock provides a highly reliable connection**

The high-pressure, double-sided, fork type contacts and a housing lock feature ensure continuity even when the connector is subjected to severe vibration or shock.

• **Polarized shrouded header**

The polarized shrouded header prevents misinsertion or distortion of the receptacle housing during mating. The rigid mating between the plug and receptacle guarantees high reliability during vibration or shock.

Specifications

- Current rating: 1.0A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/20m Ω max.
After environmental testing/40m Ω max.
- Insulation resistance: 300M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable PC board thickness: 0.8 to 1.0mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

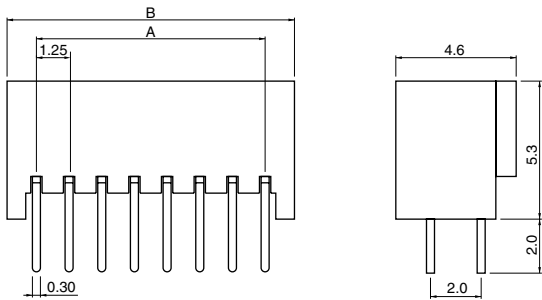
 Recognized E60389

 Certified LR20812

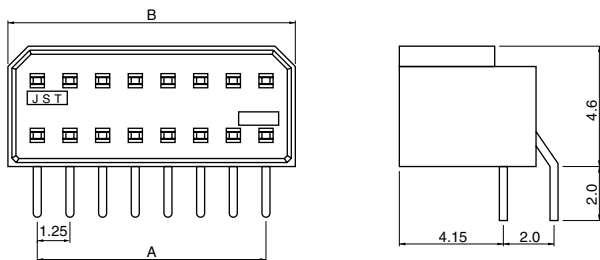
JED CONNECTOR

Plug

Top entry type



Side entry type



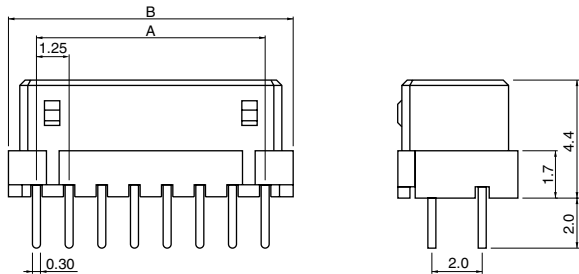
Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Top entry type	Side entry type	A	B	
8	08P-JED	08PS-JED	3.75	5.95	500
16	16P-JED	16PS-JED	8.75	10.95	500
22	22P-JED	22PS-JED	12.50	14.70	500

Material and Finish

Contact: Brass, tin-plated(reflow treatment)
Housing: Glass-filled PA 66, UL94V-0

RoHS compliance

Receptacle



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
8	08R-JED	3.75	5.95	500
16	16R-JED	8.75	10.95	500
22	22R-JED	12.50	14.70	500

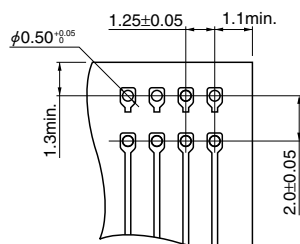
Material and Finish

Contact: Phosphor bronze, copper-undercoated, tin-plated(reflow treatment)
Housing: Glass-filled PA 66, UL94V-0

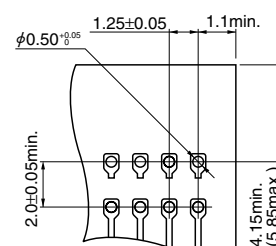
RoHS compliance This product displays (LF)(SN) on a label.

PC board layout (viewed from soldering side)

Plug: top entry type
Receptacle



Plug: side entry type

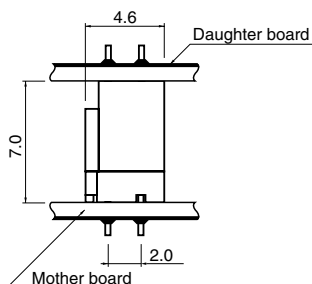


Note:

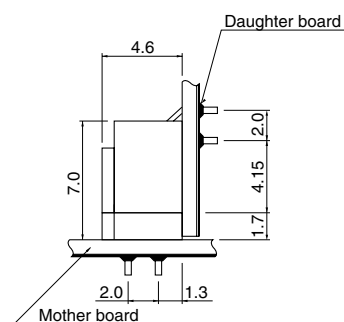
1. Tolerances are non-cumulative: $\pm 0.05 \text{ mm}$ for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline.

Assembly layout

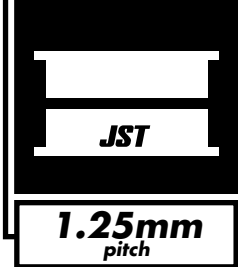
Top entry type



Side entry type



Note: The daughter board must be secured by means other than the connector.
Contact JST for more details.

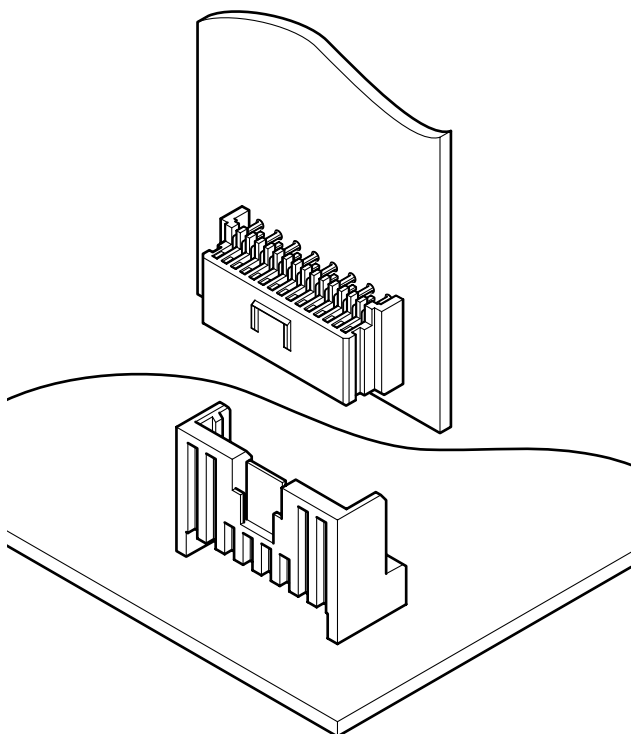


JET CONNECTOR

Self-supporting style Board-to-board Connectors



Self-supporting style board to board connectors. Both plugs and receptacles are supplied radial-tape mounted (conforming to JIS C 0805 tape specification), which can be mounted by versatile, radial component pick and place machines. Automatic mounting is possible up to 15 circuits.



Features

- **Good connection is assured even after severe shock & vibration**

Because of their construction, even severe shocks and long periods of vibration will not cause circuit interruption. Both secure lock and friction lock connectors are available.

- **Correct and secure mating**

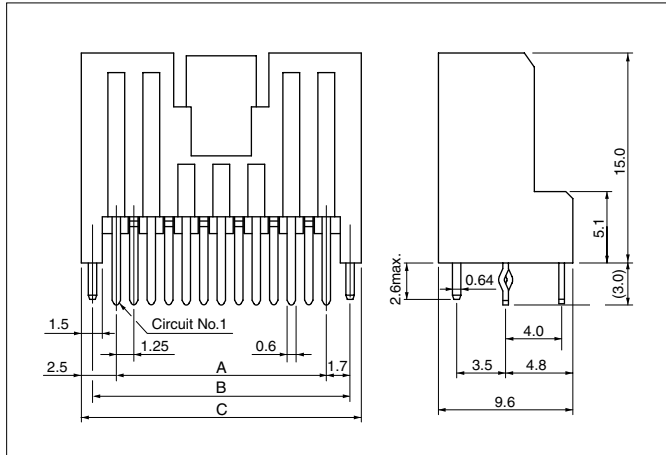
The connector halves can be easily mated, yet have a high retention force because of the housing lock mechanism.

Specifications

- Current rating: 1.0A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/30m Ω max.
After environmental testing/40m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

JET CONNECTOR

Plug



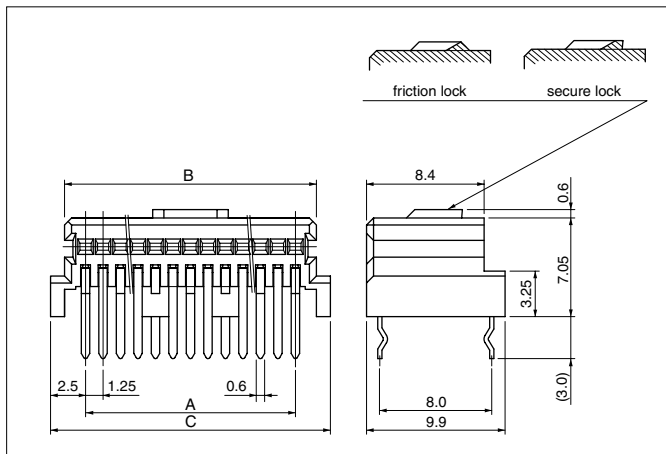
Circuits	Model No.	Dimensions (mm)			Q'ty / box
		A	B	C	
9	09P-JET	10.0	13.4	15.0	280
15	15P-JET	17.5	20.9	22.5	168

Material and Finish

Contact: Brass, copper-undercoated, tin-plated(reflow treatment)
Housing: Glass-filled PA 66, UL94V-0

RoHS compliance This product displays (LF)(SN) on a label.

Receptacle



Circuits	Model No.		Dimensions (mm)			Q'ty / box
	friction lock type	secure lock type	A	B	C	
9	09R-JET-F	09R-JET-P	10.0	13.0	15.0	420
15	15R-JET-F	15R-JET-P	17.5	20.5	22.5	392

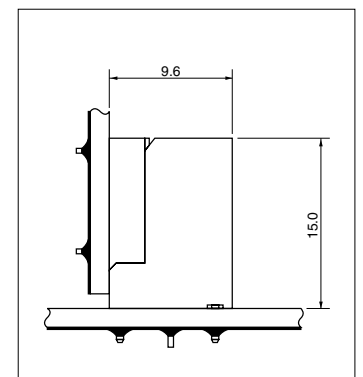
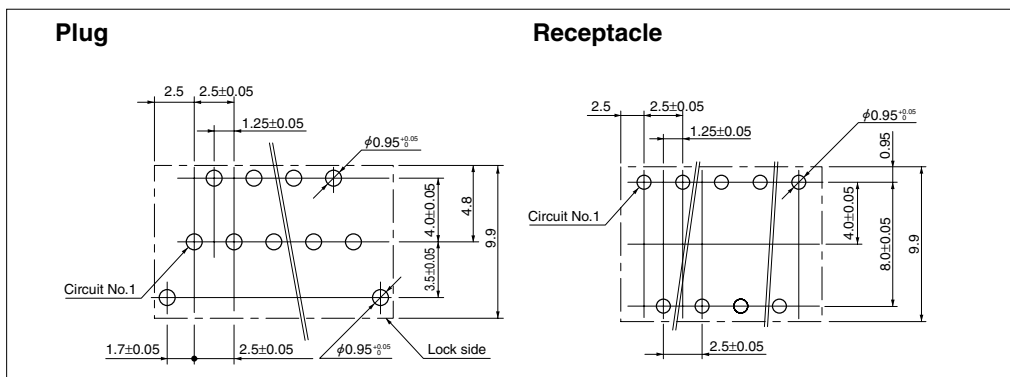
Material and Finish

Contact: Phosphor bronze, copper-undercoated, tin-plated(reflow treatment)
Housing: Glass-filled PA 66, UL94V-0

RoHS compliance This product displays (LF)(SN) on a label.

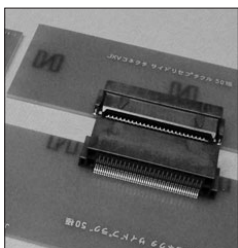
PC board layout (viewed from component side)

Assembly layout



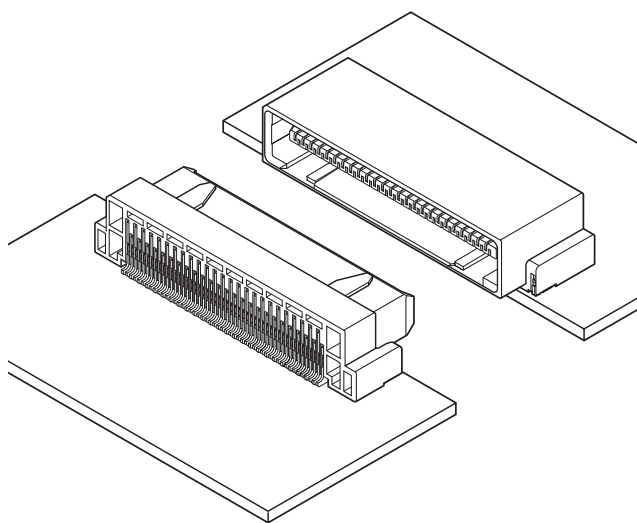
Note:

1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.



JXV CONNECTOR

1.27mm pitch/Board-to-board connectors



This connector is board-to-board connector that the flat horizontal connection between boards enables in electronic equipment. For SMT type of high-density 1.27mm pitch, the rating current of industry leading 1.0A has been enabled.

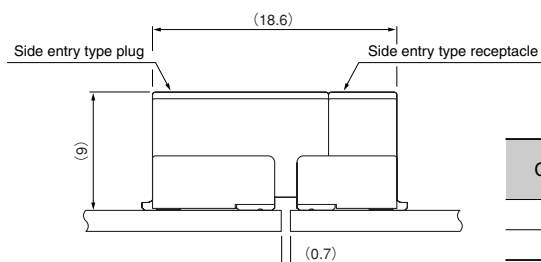
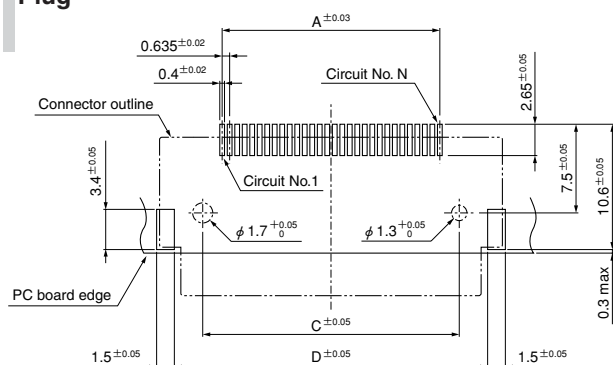
This connector is firm, good mating feeling and most suitable for connecting function board to the same horizontal direction.

- Flat horizontal connection between boards with step "0"
- The rating current of industry leading 1.0A with SMT type of high-density 1.27mm pitch is enabled.
- The solder tail is designed as in-line concept, considering about PC board pattern and bridge repair.
- Double 4 faces shrouded toughness housing
- Large insertion guide to support easily and secure mating operation
- Outstanding mating feeling
- Gold-plated contact of long mating stroke provides stable contact reliability

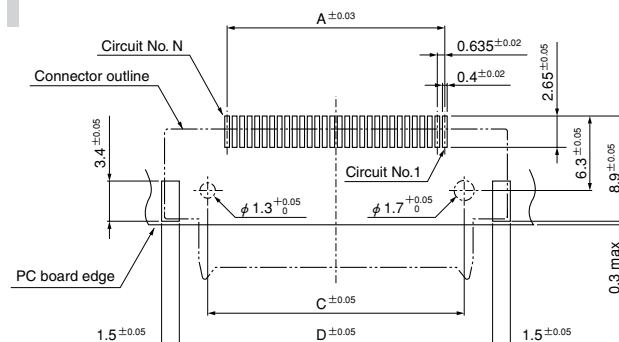
Specifications

- Current rating: 1.0 A AC, DC
- Voltage rating: 50 V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value / 50 mΩ max.
After environmental tests/ 100 mΩ max.
- Insulation resistance: 50 MΩ min.
- Withstanding voltage: 100 VAC/minute
- PC board connecting method: Horizontal (step "0")
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Compliant with RoHS.

Plug



Receptacle



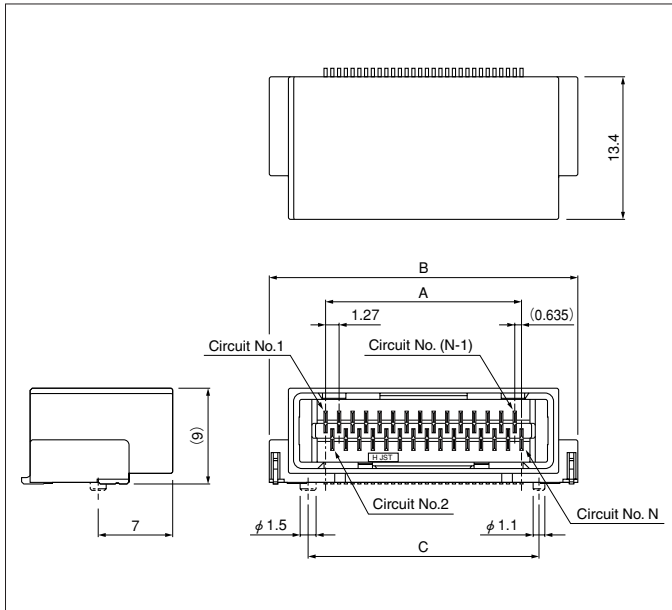
Circuits	Dimensions (mm)		
	A	C	D
30	18.415	21.7	26.5
50	31.115	34.4	39.2

Note: 1. The above figure is the figure viewed from the connector mounting side.

2. Tolerances are non-cumulative: ± 0.03 mm for all centers. The dimensions above should serve as a guideline. Contact JST for details.

JXV CONNECTOR

Plug



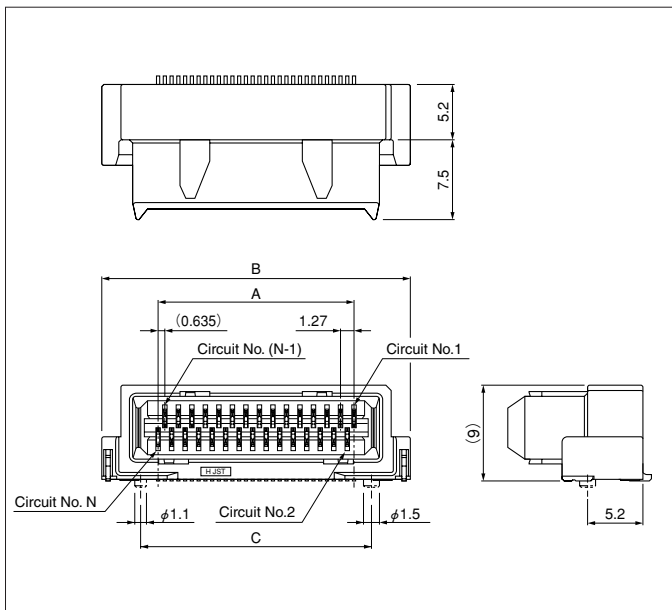
Circuits	Model No.		Dimensions (mm)			Q'ty / box
	With bosses	Without bosses	A	B	C	
30	30PS-JXVK-G-B	30PS-JXVK-G	18.415	29.0	21.7	833
50	50PS-JXVK-G-B	—	31.115	41.7	34.4	595

Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated
Housing: Heat resisting resin, UL94V-0, black
Reinforcing tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Receptacle

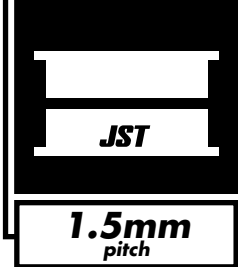


Circuits	Model No.		Dimensions (mm)			Q'ty / box
	With bosses	Without bosses	A	B	C	
30	30RS-JXVK-G-B	30RS-JXVK-G	18.415	29.0	21.7	833
50	50RS-JXVK-G-B	—	31.115	41.7	34.4	595

Material and Finish

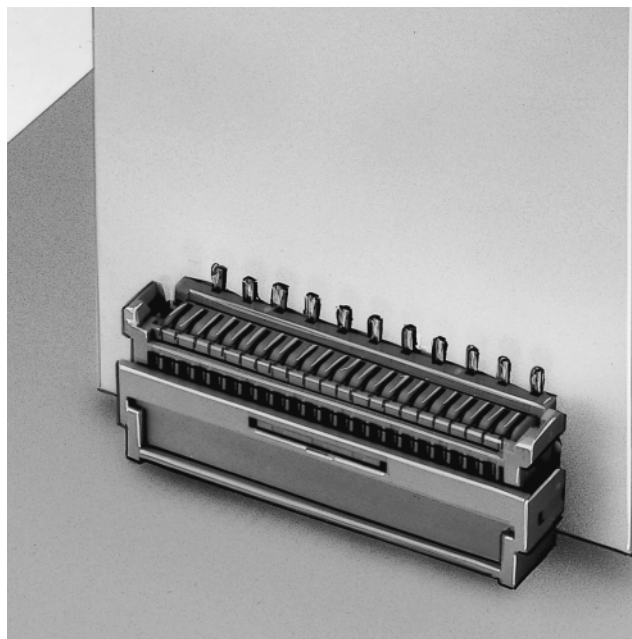
Contact: Copper alloy, nickel-undercoated, gold-plated
Housing: Heat resisting resin, UL94V-0, black
Reinforcing tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

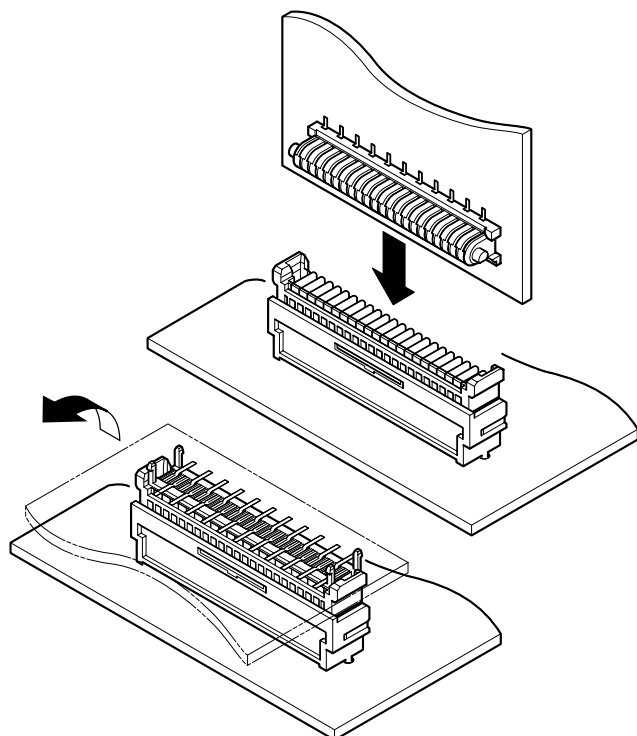


HQM CONNECTOR

Hinge type Board-to-board Connectors



Hinge type board to board connectors which allow mated PCB's to move 90° in respect to one another while electricity is turned on. The hinge compensates for slight misalignments between circuit boards to assure a secure connection even if the boards are out of line up to 0.5mm. Thus design and circuit checks can be as easily made as opening a door.



Features

• ***Hinged connection***

With hinge construction, the HQM connector features flexibility. Thus this board to board connector allows mated PCB's to move 90° in respect to one another while electricity is turned on.

• ***Flexible connection by absorbing circuit board misalignment***

The hinge compensates for slight misalignments between circuit boards to assure a secure connection even if the boards are out of line up to 0.5mm. Thus design and circuit checks can be as easily made as opening a door.

• ***Connector halves can be mated after mounting on circuit boards***

Connector halves can be mated after mounting on circuit boards. The boards can then be rotated 90°. This will ease equipment maintenance by allowing access to tight spaces.

Specifications

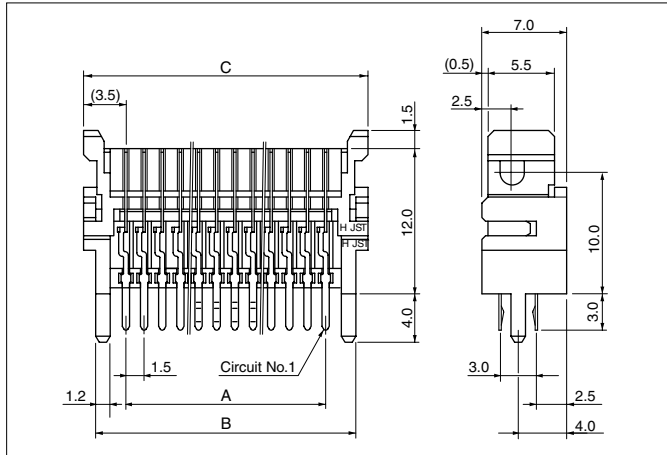
- Current rating: 1.0A AC, DC
- Voltage rating: 100V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/40m Ω max.
After environmental testing/60m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

Recognized E60389

Certified LR20812

Plug



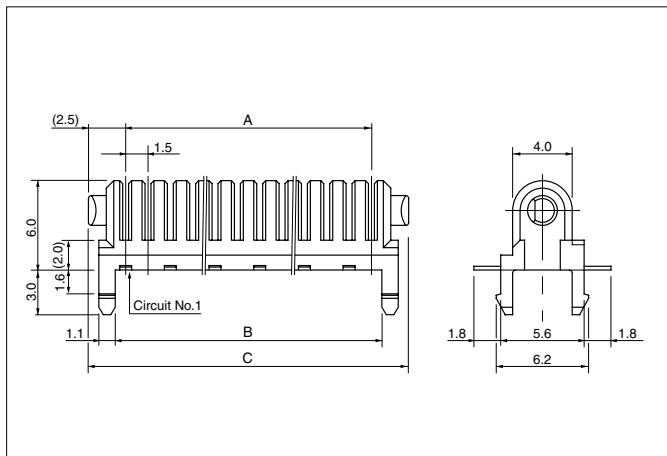
Circuits	Model No.	Dimensions (mm)			Q'ty / box
		A	B	C	
21	21P-HQM-1	30.0	35.0	37.0	180
22	22P-HQM-1	31.5	36.5	38.5	150
23	23P-HQM-1	33.0	38.0	40.0	150
24	24P-HQM-1	34.5	39.5	41.5	150

Material and Finish

Contact: Phosphor bronze, tin-plated(reflow treatment)
Housing: Glass-filled PA 66, UL94V-0

RoHS compliance

Receptacle



Circuits	Model No.	Dimensions (mm)			Q'ty / box
		A	B	C	
21	21R-HQM	30.0	31.4	35.0	240
22	22R-HQM	31.5	32.9	36.5	200
23	23R-HQM	33.0	34.4	38.0	200
24	24R-HQM	34.5	35.9	39.5	200

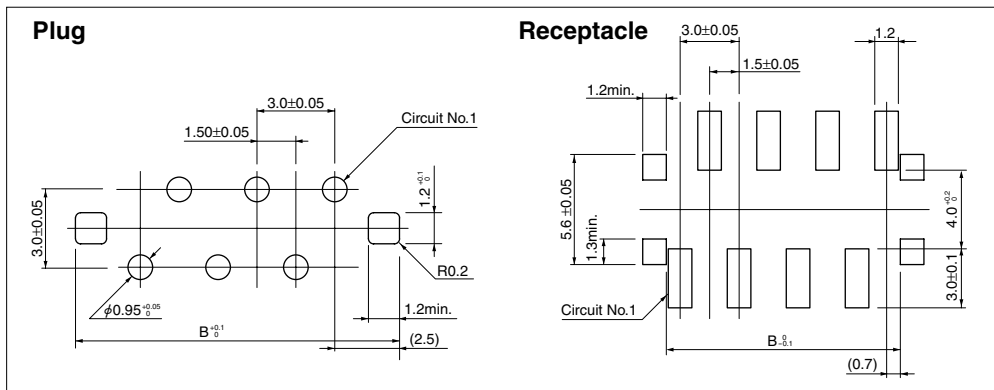
Material and Finish

Contact: Phosphor bronze, tin-plated(reflow treatment)
Housing: Glass-filled PA 66, UL94V-0

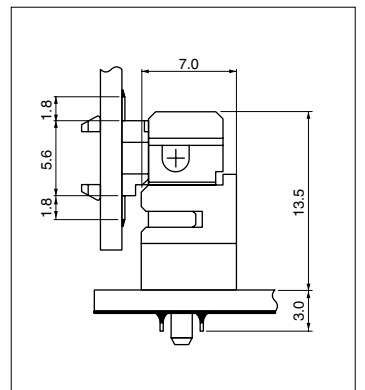
RoHS compliance

Note: These products are for manual soldering.

PC board layout (viewed from component side)

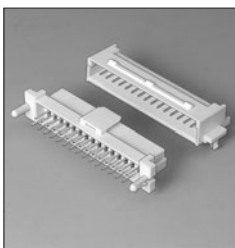


Assembly layout



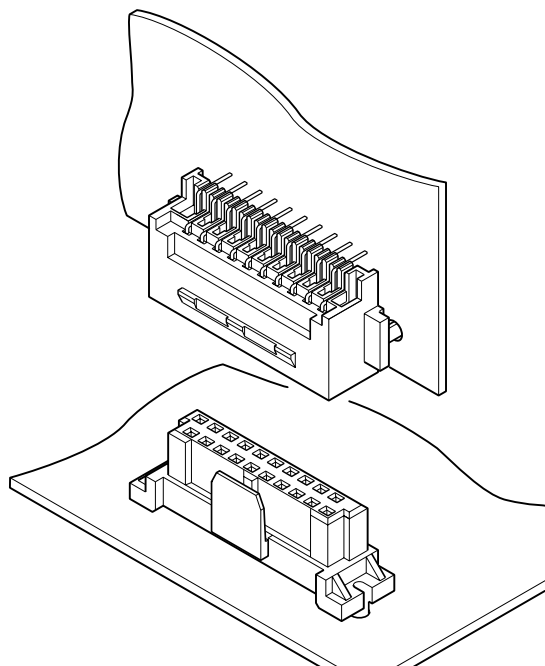
Note:

1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.



JDV CONNECTOR

1.5mm pitch/Hinge type Board-to-board Connectors



The JDV connector is designed for board-to-board connection with locking device, and highly resistant to equipment vibration and shock.

- Two type Locking device
- Staggered Solder Tails
- Positioning boss (projection)

Specifications

- Current rating: 1.0A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/30m Ω max.
After environmental testing/50m Ω max.
- Insulation resistance: 800M Ω min.
- Withstanding voltage: 300V AC/minute
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

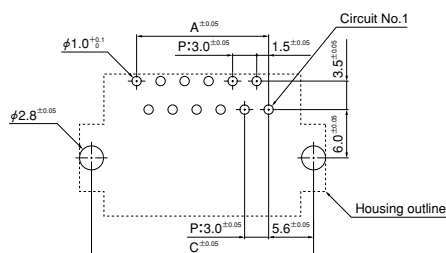
Standards

Recognized E60389

Certified LR20812

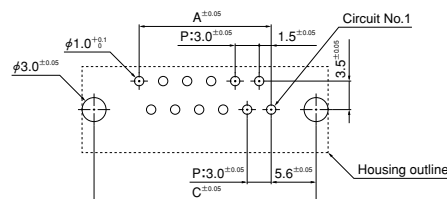
PC board layout (viewed from component side) and Assembly layout

Plug

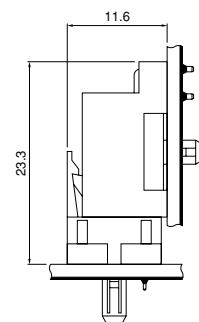
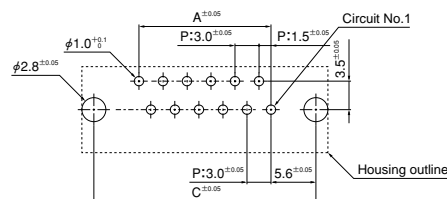


Receptacle

Resin hook type



Metal hook type



Note: 1. Tolerances are non-cumulative: ± 0.05 mm for all centers.

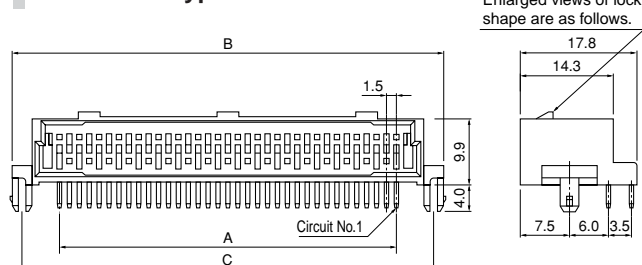
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

JDV CONNECTOR

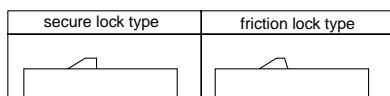
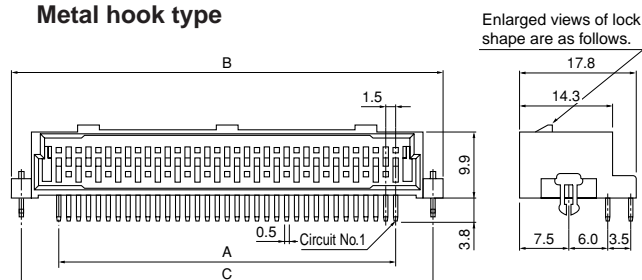
Plug

Retention lock type

Resin hook type



Metal hook type



Enlarged views of lock shape are as follows.

Enlarged views of lock shape are as follows.

Resin hook type

Circuits	Model No.		Dimensions (mm)			Q'ty / box
	secure lock type	friction lock type	A	B	C	
15	JDV-PS15LB-10-1	—	21.0	35.5	32.2	400
20	JDV-PS20LB-10-1	JDV-PS20FLB-10-1	28.5	43.0	39.7	320
25	JDV-PS25LB-10-1	JDV-PS25FLB-10-1	36.0	50.5	47.2	280
30	JDV-PS30LB-10-1	JDV-PS30FLB-10-1	43.5	58.0	54.7	240
35	JDV-PS35LB-10-1	JDV-PS35FLB-10-1	51.0	65.5	62.2	200
40	JDV-PS40LB-10-1	JDV-PS40FLB-10-1	58.5	73.0	69.7	160
50	JDV-PS50LB-10-1	JDV-PS50FLB-10-1	73.5	88.0	84.7	160

Material and Finish

Contact: Brass, nickel-undercoated, Mating part; gold-plated
Solder tail; tin-plated (reflow treatment)
Housing: Glass-filled PBT, UL94V-0

RoHS compliance This product displays (LF)(SN) on a label.

Metal hook type

Circuits	Model No.		Dimensions (mm)			Q'ty / box
	secure lock type	friction lock type	A	B	C	
20	JDV-PS20LB-10A	—	28.5	43.0	39.7	320
25	JDV-PS25LB-10A	—	36.0	50.5	47.2	280
30	JDV-PS30LB-10A	JDV-PS30FLB-10A	43.5	58.0	54.7	240
35	JDV-PS35LB-10A	JDV-PS35FLB-10A	51.0	65.5	62.2	200
40	JDV-PS40LB-10A	—	58.5	73.0	69.7	160
50	JDV-PS50LB-10A	JDV-PS50FLB-10A	73.5	88.0	84.7	160
65	—	JDV-PS65FLB-10A	96.0	110.5	107.2	120

Material and Finish

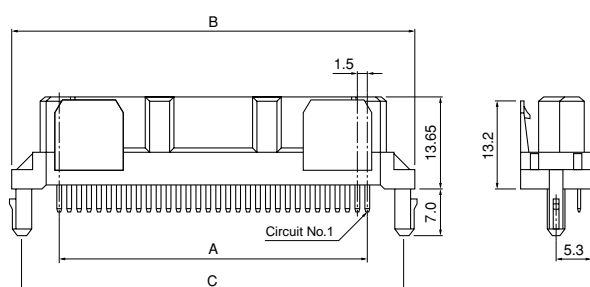
Contact: Brass, nickel-undercoated, Mating part; gold-plated
Solder tail; tin-plated (reflow treatment)
Housing: Glass-filled PBT, UL94V-0
Reinforcing pin: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

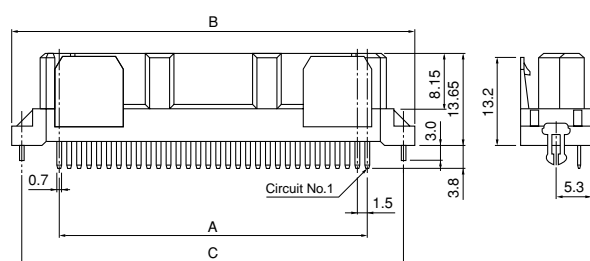
Receptacle

Retention lock type

Resin hook type



Metal hook type



Resin hook type

Circuits	Model No.	Dimensions (mm)			Q'ty / box
		A	B	C	
15	JDV-R15LB-10-1	21.0	35.5	32.2	500
20	JDV-R20LB-10-1	28.5	43.0	39.7	400
25	JDV-R25LB-10-1	36.0	50.5	47.2	350
30	JDV-R30LB-10-1	43.5	58.0	54.7	300
35	JDV-R35LB-10-1	51.0	65.5	62.2	250
40	JDV-R40LB-10-1	58.5	73.0	69.7	200
50	JDV-R50LB-10-1	73.5	88.0	84.7	200

Material and Finish

Contact: Phosphor bronze, nickel-undercoated,
Mating part; gold-plated
Solder tail; tin-plated (reflow treatment)
Housing: Glass-filled PBT, UL94V-0

RoHS compliance This product displays (LF)(SN) on a label.

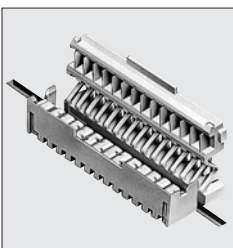
Metal hook type

Circuits	Model No.	Dimensions (mm)			Q'ty / box
		A	B	C	
20	JDV-R20LB-10A	28.5	43.0	39.7	400
25	JDV-R25LB-10A	36.0	50.5	47.2	350
30	JDV-R30LB-10A	43.5	58.0	54.7	300
35	JDV-R35LB-10A	51.0	65.5	62.2	250
40	JDV-R40LB-10A	58.5	73.0	69.7	200
50	JDV-R50LB-10A	73.5	88.0	84.7	200
65	JDV-R65LB-10A	96.0	110.5	107.2	150

Material and Finish

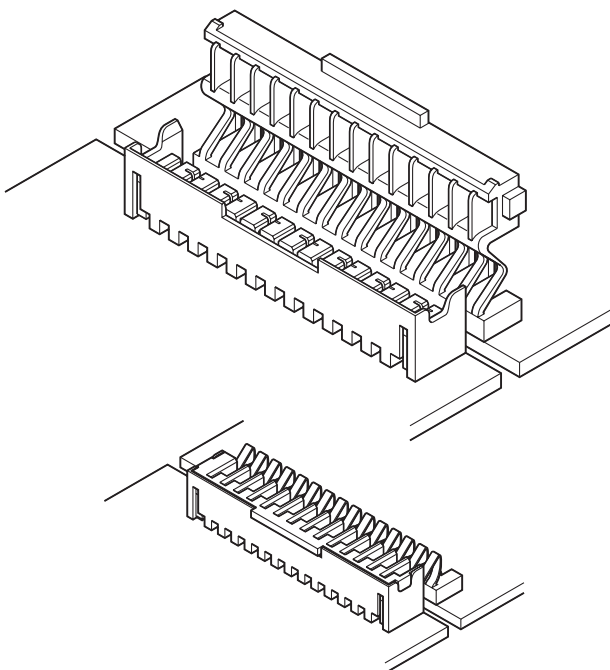
Contact: Phosphor bronze, nickel-undercoated,
Mating part; gold-plated
Solder tail; tin-plated (reflow treatment)
Housing: Glass-filled PBT, UL94V-0
Reinforcing pin: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.



FJ CONNECTOR

2.0mm pitch/Board-to-board connectors



The FJ board-to-board connector absorbs lateral and longitudinal alignment errors thanks to an innovative new design that provides flexible connection between closely spaced circuit boards. Added advantages are simplified and less stringent packaging specifications for board-to-board connections and a higher quality end product.

- **Flexible connection absorbs circuit board misalignment**
- **Provides a low profile mount and allows connection after mounting**
- **Assures a reliable connection**

Specifications

- Current rating: 1.0A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/40m Ω max.
After environmental testing/80m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

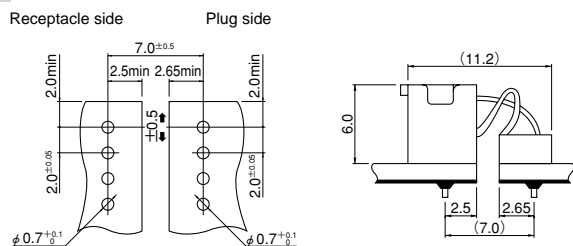
Standards

Recognized E60389

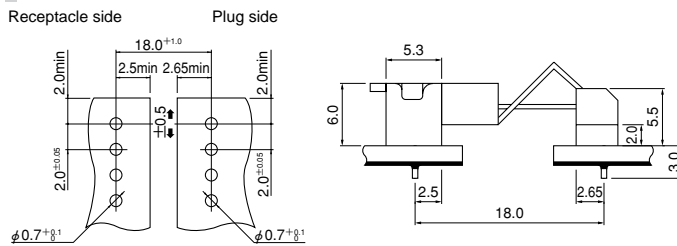
Certified LR20812

PC board layout (viewed from component side) and Assembly layout

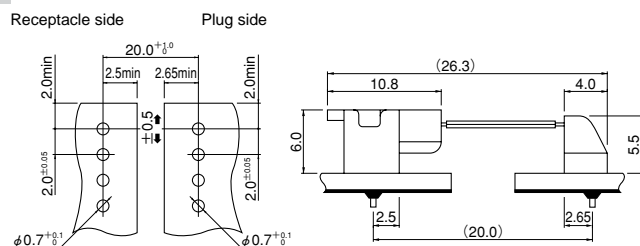
Short type



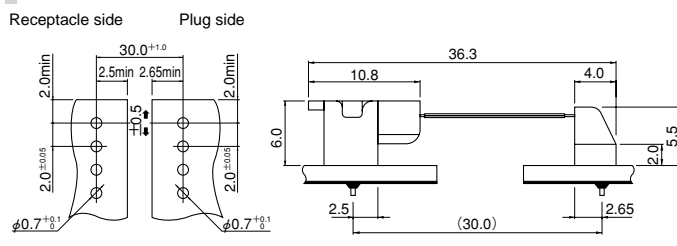
FJ-V type



FJ-L type



FJ-K type



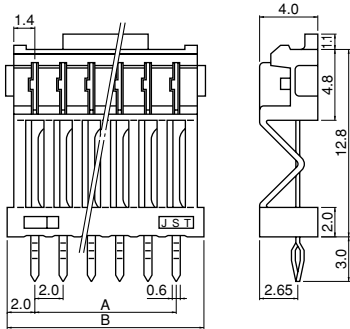
Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

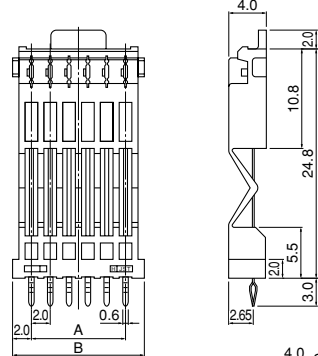
FJ CONNECTOR

Plug

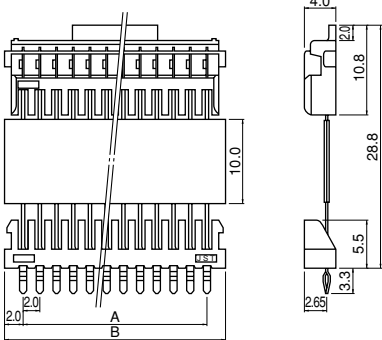
Short type



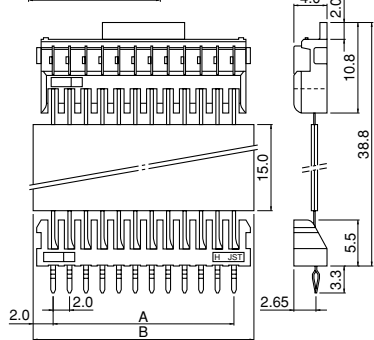
FJ-V type



FJ-L type



FJ-K type



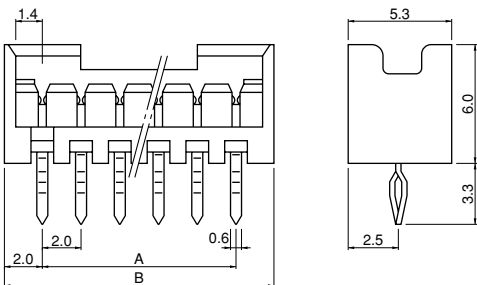
Circuits	Model No.				Dimensions (mm)		Q'ty / box			
	Short type	FJ-V type	FJ-L type	FJ-K type	A	B	Short type	FJ-V type	FJ-L type	FJ-K type
4	04P-FJ	—	—	—	6.0	10.0	500	—	—	—
5	—	—	05PL-FJ	05PK-FJ	8.0	12.0	—	—	250	150
6	06P-FJ	—	06PL-FJ	06PK-FJ	10.0	14.0	250	—	200	150
7	07P-FJ	—	07PL-FJ	07PK-FJ	12.0	16.0	250	—	200	100
8	08P-FJ	—	08PL-FJ	08PK-FJ	14.0	18.0	200	—	200	100
9	09P-FJ	—	—	—	16.0	20.0	200	—	—	—
10	10P-FJ	—	10PL-FJ	10PK-FJ	18.0	22.0	200	—	100	100
11	11P-FJ	11PV-FJ	—	—	20.0	24.0	200	168	—	—
12	12P-FJ	—	12PL-FJ	12PK-FJ	22.0	26.0	100	—	100	50
13	—	13PV-FJ	—	—	24.0	28.0	—	168	—	—
14	14P-FJ	—	14PL-FJ	14PK-FJ	26.0	30.0	100	—	100	50
15	—	15PV-FJ	—	—	28.0	32.0	—	168	—	—

Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0, white
Insulation tape: Acetate, UL510FR (FJ-L type)
Polyester, UL94V-0 (FJ-K type)

RoHS compliance

Receptacle

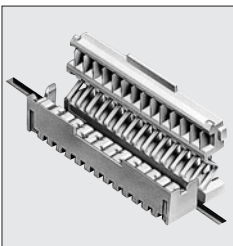


Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
4	04R-FJ	6.0	10.0	500
5	05R-FJ	8.0	12.0	500
6	06R-FJ	10.0	14.0	500
7	07R-FJ	12.0	16.0	500
8	08R-FJ	14.0	18.0	250
9	09R-FJ	16.0	20.0	250
10	10R-FJ	18.0	22.0	250
11	11R-FJ	20.0	24.0	250
12	12R-FJ	22.0	26.0	200
13	13R-FJ	24.0	28.0	200
14	14R-FJ	26.0	30.0	200
15	15R-FJ	28.0	32.0	200

Material and Finish

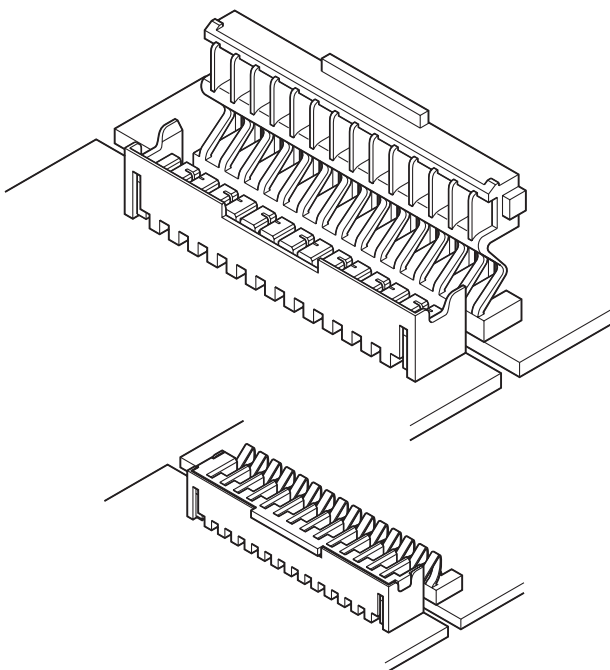
Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0, white

RoHS compliance This product displays (LF)(SN) on a label.



FJ CONNECTOR

2.0mm pitch/Board-to-board connectors



The FJ board-to-board connector absorbs lateral and longitudinal alignment errors thanks to an innovative new design that provides flexible connection between closely spaced circuit boards. Added advantages are simplified and less stringent packaging specifications for board-to-board connections and a higher quality end product.

- **Flexible connection absorbs circuit board misalignment**
- **Provides a low profile mount and allows connection after mounting**
- **Assures a reliable connection**

Specifications

- Current rating: 1.0A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/40m Ω max.
After environmental testing/80m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

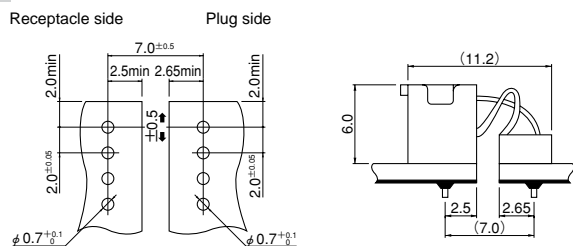
Standards

Recognized E60389

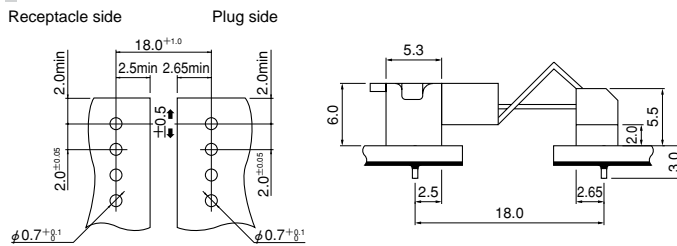
Certified LR20812

PC board layout (viewed from component side) and Assembly layout

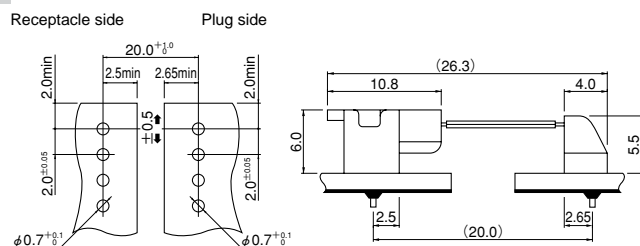
Short type



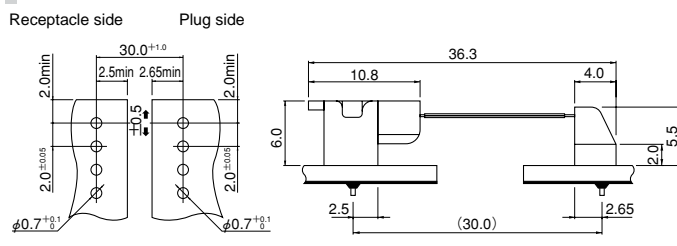
FJ-V type



FJ-L type



FJ-K type



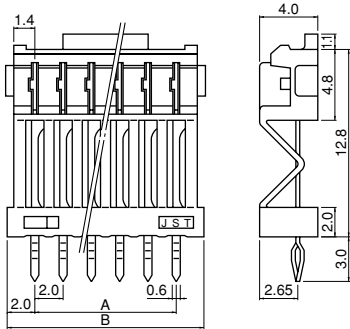
Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

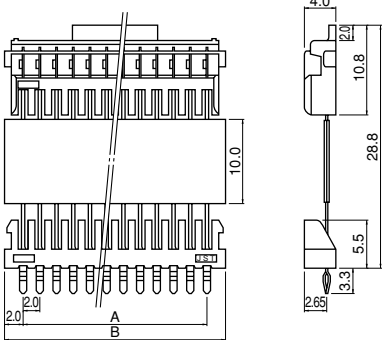
FJ CONNECTOR

Plug

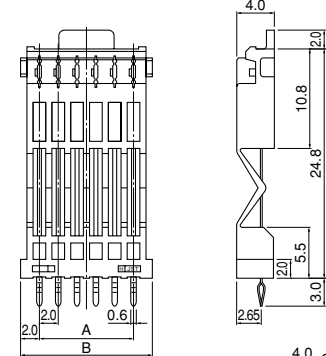
Short type



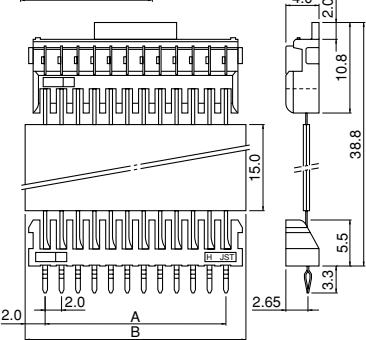
FJ-L type



FJ-V type



FJ-K type



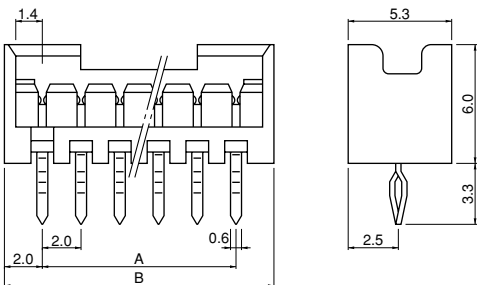
Circuits	Model No.				Dimensions (mm)		Q'ty / box			
	Short type	FJ-V type	FJ-L type	FJ-K type	A	B	Short type	FJ-V type	FJ-L type	FJ-K type
4	04P-FJ	—	—	—	6.0	10.0	500	—	—	—
5	—	—	05PL-FJ	05PK-FJ	8.0	12.0	—	—	250	150
6	06P-FJ	—	06PL-FJ	06PK-FJ	10.0	14.0	250	—	200	150
7	07P-FJ	—	07PL-FJ	07PK-FJ	12.0	16.0	250	—	200	100
8	08P-FJ	—	08PL-FJ	08PK-FJ	14.0	18.0	200	—	200	100
9	09P-FJ	—	—	—	16.0	20.0	200	—	—	—
10	10P-FJ	—	10PL-FJ	10PK-FJ	18.0	22.0	200	—	100	100
11	11P-FJ	11PV-FJ	—	—	20.0	24.0	200	168	—	—
12	12P-FJ	—	12PL-FJ	12PK-FJ	22.0	26.0	100	—	100	50
13	—	13PV-FJ	—	—	24.0	28.0	—	168	—	—
14	14P-FJ	—	14PL-FJ	14PK-FJ	26.0	30.0	100	—	100	50
15	—	15PV-FJ	—	—	28.0	32.0	—	168	—	—

Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0, white
Insulation tape: Acetate, UL510FR (FJ-L type)
Polyester, UL94V-0 (FJ-K type)

RoHS compliance

Receptacle

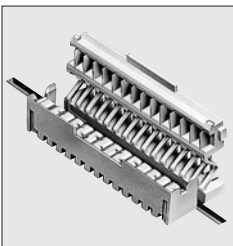


Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
4	04R-FJ	6.0	10.0	500
5	05R-FJ	8.0	12.0	500
6	06R-FJ	10.0	14.0	500
7	07R-FJ	12.0	16.0	500
8	08R-FJ	14.0	18.0	250
9	09R-FJ	16.0	20.0	250
10	10R-FJ	18.0	22.0	250
11	11R-FJ	20.0	24.0	250
12	12R-FJ	22.0	26.0	200
13	13R-FJ	24.0	28.0	200
14	14R-FJ	26.0	30.0	200
15	15R-FJ	28.0	32.0	200

Material and Finish

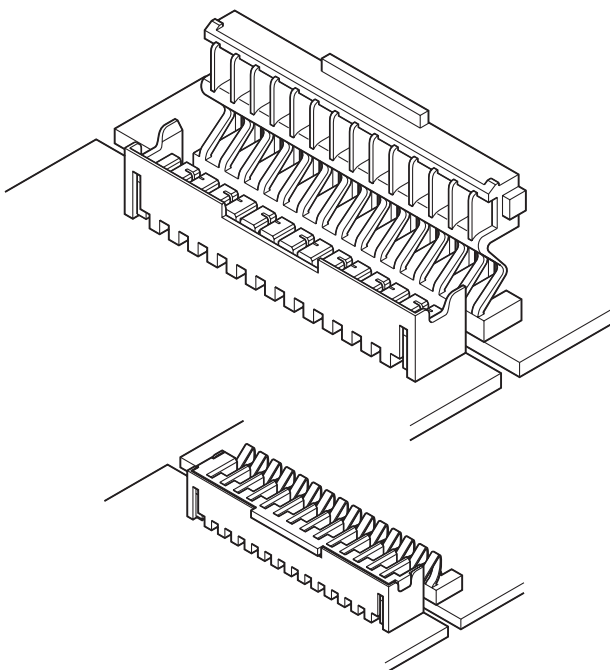
Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0, white

RoHS compliance This product displays (LF)(SN) on a label.



FJ CONNECTOR

2.0mm pitch/Board-to-board connectors



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- **Flexible connection absorbs circuit board misalignment**
- **Provides a low profile mount and allows connection after mounting**
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Specifications

- Current rating: 1.0A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/40m Ω max.
After environmental testing/80m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

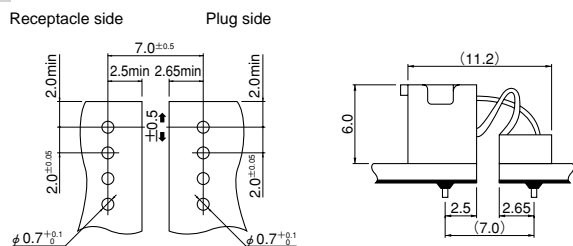
Standards

Recognized E60389

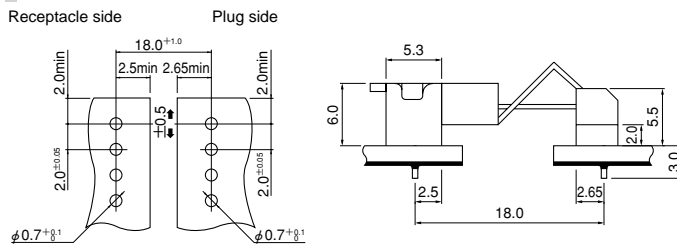
Certified LR20812

PC board layout (viewed from component side) and Assembly layout

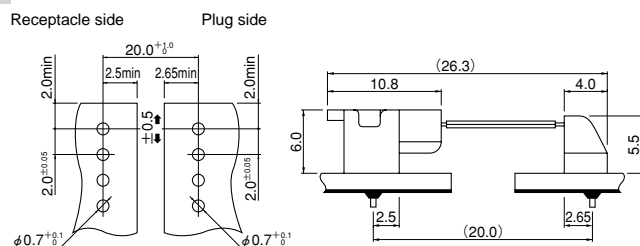
Short type



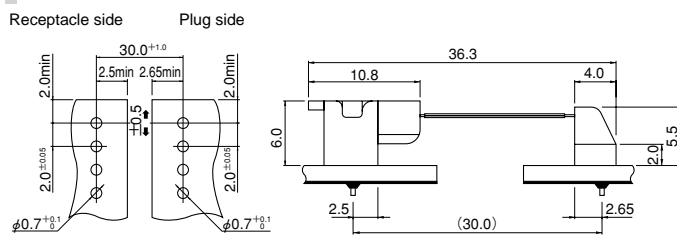
FJ-V type



FJ-L type



FJ-K type



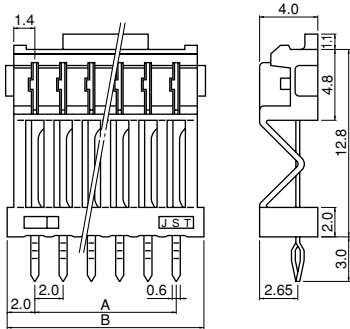
Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

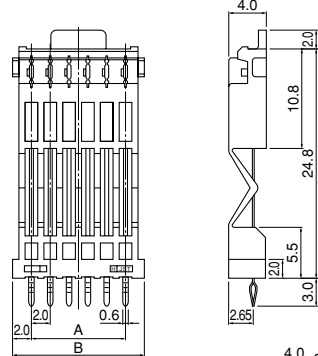
FJ CONNECTOR

Plug

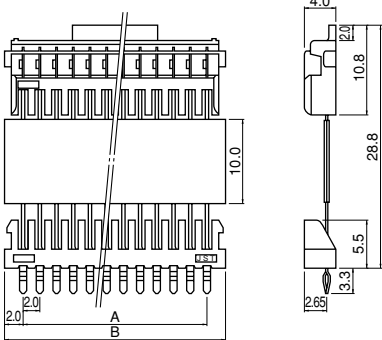
Short type



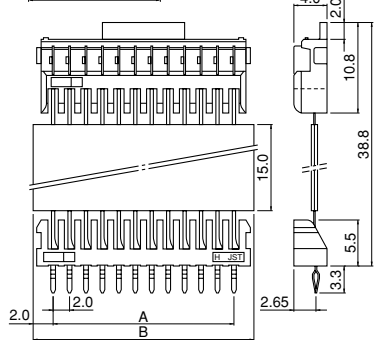
FJ-V type



FJ-L type



FJ-K type



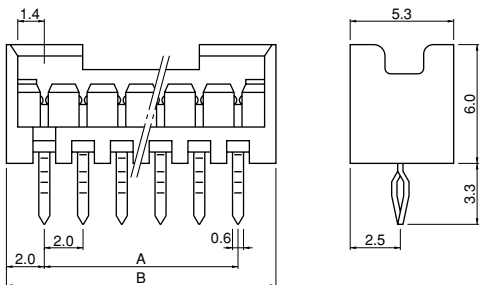
Circuits	Model No.				Dimensions (mm)		Q'ty / box			
	Short type	FJ-V type	FJ-L type	FJ-K type	A	B	Short type	FJ-V type	FJ-L type	FJ-K type
4	04P-FJ	—	—	—	6.0	10.0	500	—	—	—
5	—	—	05PL-FJ	05PK-FJ	8.0	12.0	—	—	250	150
6	06P-FJ	—	06PL-FJ	06PK-FJ	10.0	14.0	250	—	200	150
7	07P-FJ	—	07PL-FJ	07PK-FJ	12.0	16.0	250	—	200	100
8	08P-FJ	—	08PL-FJ	08PK-FJ	14.0	18.0	200	—	200	100
9	09P-FJ	—	—	—	16.0	20.0	200	—	—	—
10	10P-FJ	—	10PL-FJ	10PK-FJ	18.0	22.0	200	—	100	100
11	11P-FJ	11PV-FJ	—	—	20.0	24.0	200	168	—	—
12	12P-FJ	—	12PL-FJ	12PK-FJ	22.0	26.0	100	—	100	50
13	—	13PV-FJ	—	—	24.0	28.0	—	168	—	—
14	14P-FJ	—	14PL-FJ	14PK-FJ	26.0	30.0	100	—	100	50
15	—	15PV-FJ	—	—	28.0	32.0	—	168	—	—

Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0, white
Insulation tape: Acetate, UL510FR (FJ-L type)
Polyester, UL94V-0 (FJ-K type)

RoHS compliance

Receptacle

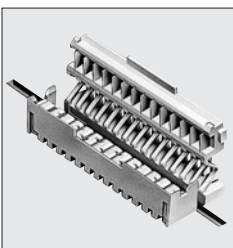


Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
4	04R-FJ	6.0	10.0	500
5	05R-FJ	8.0	12.0	500
6	06R-FJ	10.0	14.0	500
7	07R-FJ	12.0	16.0	500
8	08R-FJ	14.0	18.0	250
9	09R-FJ	16.0	20.0	250
10	10R-FJ	18.0	22.0	250
11	11R-FJ	20.0	24.0	250
12	12R-FJ	22.0	26.0	200
13	13R-FJ	24.0	28.0	200
14	14R-FJ	26.0	30.0	200
15	15R-FJ	28.0	32.0	200

Material and Finish

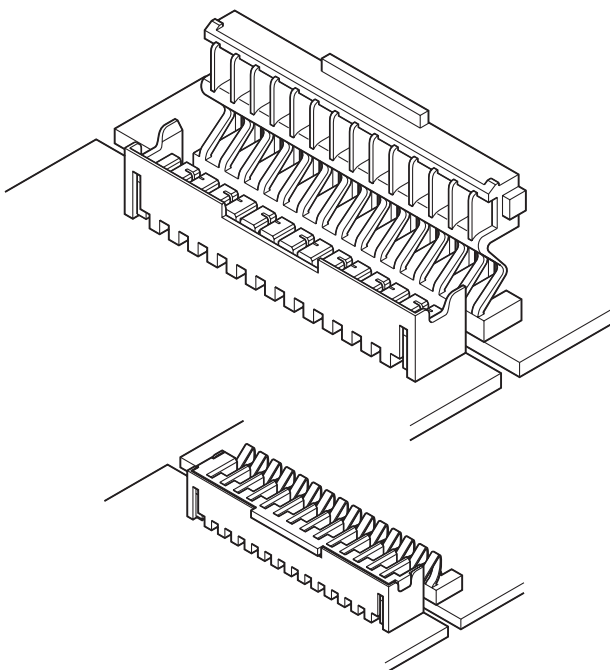
Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0, white

RoHS compliance This product displays (LF)(SN) on a label.



FJ CONNECTOR

2.0mm pitch/Board-to-board connectors



The FJ board-to-board connector absorbs lateral and longitudinal alignment errors thanks to an innovative new design that provides flexible connection between closely spaced circuit boards. Added advantages are simplified and less stringent packaging specifications for board-to-board connections and a higher quality end product.

- **Flexible connection absorbs circuit board misalignment**
- **Provides a low profile mount and allows connection after mounting**
- **Assures a reliable connection**

Specifications

- Current rating: 1.0A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/40m Ω max.
After environmental testing/80m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

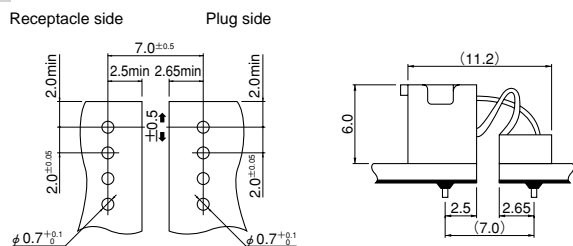
Standards

Recognized E60389

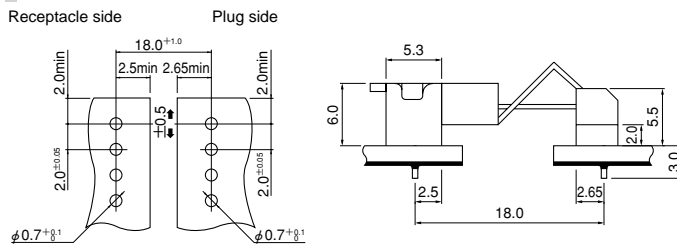
Certified LR20812

PC board layout (viewed from component side) and Assembly layout

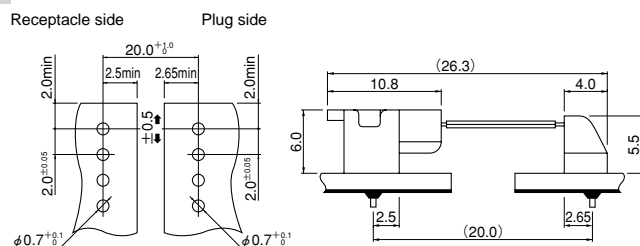
Short type



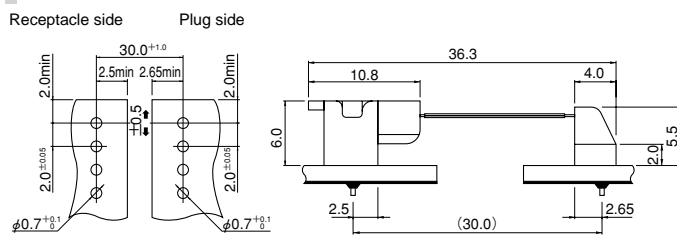
FJ-V type



FJ-L type



FJ-K type



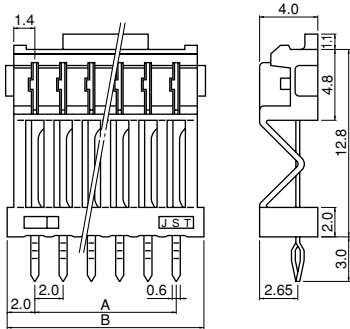
Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

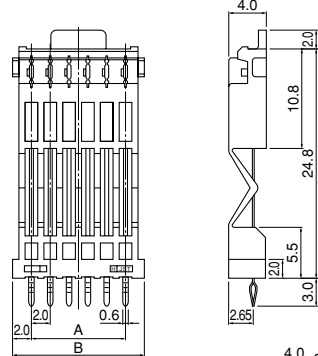
FJ CONNECTOR

Plug

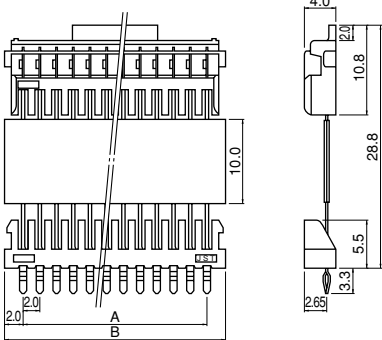
Short type



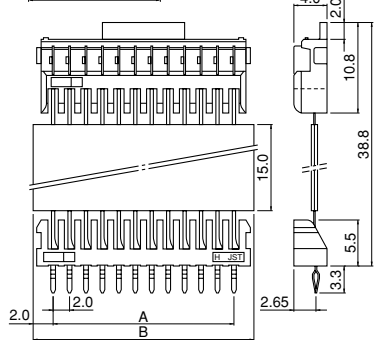
FJ-V type



FJ-L type



FJ-K type



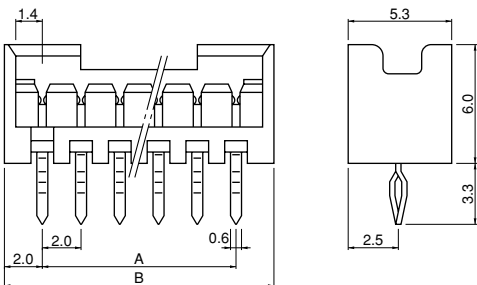
Circuits	Model No.				Dimensions (mm)		Q'ty / box			
	Short type	FJ-V type	FJ-L type	FJ-K type	A	B	Short type	FJ-V type	FJ-L type	FJ-K type
4	04P-FJ	—	—	—	6.0	10.0	500	—	—	—
5	—	—	05PL-FJ	05PK-FJ	8.0	12.0	—	—	250	150
6	06P-FJ	—	06PL-FJ	06PK-FJ	10.0	14.0	250	—	200	150
7	07P-FJ	—	07PL-FJ	07PK-FJ	12.0	16.0	250	—	200	100
8	08P-FJ	—	08PL-FJ	08PK-FJ	14.0	18.0	200	—	200	100
9	09P-FJ	—	—	—	16.0	20.0	200	—	—	—
10	10P-FJ	—	10PL-FJ	10PK-FJ	18.0	22.0	200	—	100	100
11	11P-FJ	11PV-FJ	—	—	20.0	24.0	200	168	—	—
12	12P-FJ	—	12PL-FJ	12PK-FJ	22.0	26.0	100	—	100	50
13	—	13PV-FJ	—	—	24.0	28.0	—	168	—	—
14	14P-FJ	—	14PL-FJ	14PK-FJ	26.0	30.0	100	—	100	50
15	—	15PV-FJ	—	—	28.0	32.0	—	168	—	—

Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0, white
Insulation tape: Acetate, UL510FR (FJ-L type)
Polyester, UL94V-0 (FJ-K type)

RoHS compliance

Receptacle

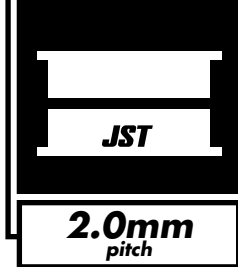


Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
4	04R-FJ	6.0	10.0	500
5	05R-FJ	8.0	12.0	500
6	06R-FJ	10.0	14.0	500
7	07R-FJ	12.0	16.0	500
8	08R-FJ	14.0	18.0	250
9	09R-FJ	16.0	20.0	250
10	10R-FJ	18.0	22.0	250
11	11R-FJ	20.0	24.0	250
12	12R-FJ	22.0	26.0	200
13	13R-FJ	24.0	28.0	200
14	14R-FJ	26.0	30.0	200
15	15R-FJ	28.0	32.0	200

Material and Finish

Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0, white

RoHS compliance This product displays (LF)(SN) on a label.

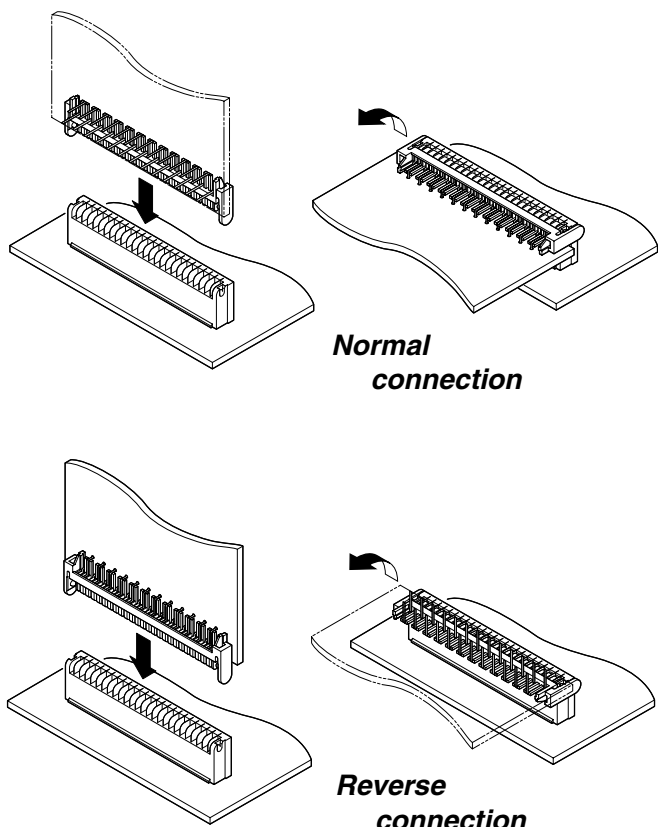


HQF CONNECTOR

Hinge type Board-to-board Connectors



Hinge type board to board connectors which allow mated PCB's to move 90° in respect to one another while electricity is turned on. The hinge compensates for slight misalignments between circuit boards to assure a secure connection even if the boards are laterally out of line.



Features

• Hinged connection

With hinge construction, the HQF connector features flexibility. Thus this board to board connector allows mated PCB's to move 90° in respect to one another while electricity is turned on. Circuit checks can be made in any rotational position.

• Flexible connection absorbs slight misalignments between boards

Securely connected even if the adjoining boards are laterally out of line.

Specifications

- Current rating: 1.0A AC, DC
- Voltage rating: 100V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/40m Ω max.
After environmental testing/80m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

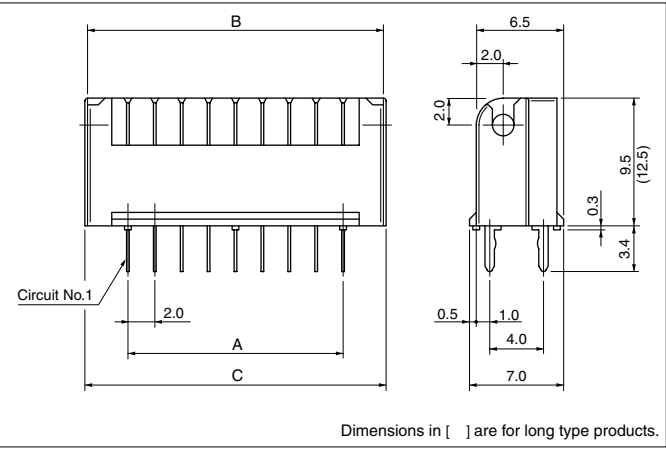
Standards

Recognized E60389

Certified LR20812

HQF CONNECTOR

Plug



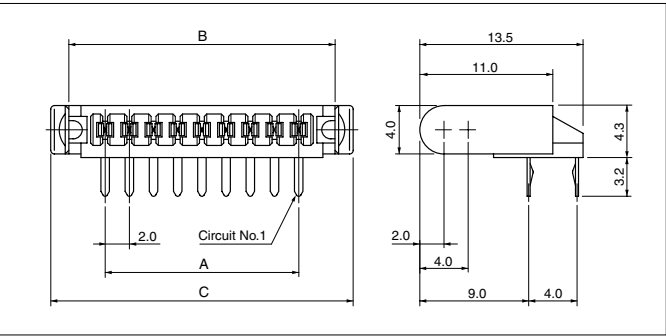
Type	Circuits	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
Standard	15	15P-HQF-E	28.0	34.0	34.4	275
	15	15PL-HQF-A	28.0	34.0	34.4	275
Long	25	25PL-HQF-A	48.0	54.0	54.4	175
	35	35PL-HQF-A	68.0	74.0	74.4	125

Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: Glass-filled PA 66, UL94V-0

RoHS compliance

Receptacle



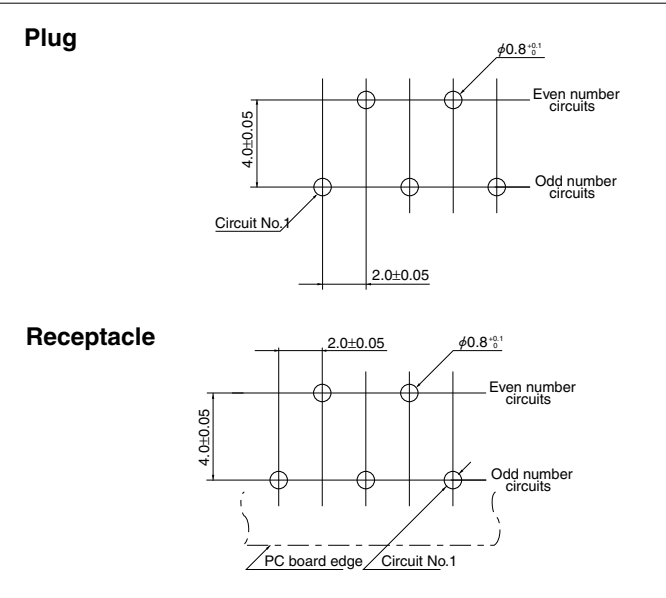
Circuits	Model No.	Dimensions (mm)			Q'ty / box
		A	B	C	
15	15R-HQF-A	28.0	34.0	37.0	220
25	25R-HQF-A	48.0	54.0	57.0	140
35	35R-HQF-A	68.0	74.0	77.0	100

Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: Glass-filled PA 66, UL94V-0

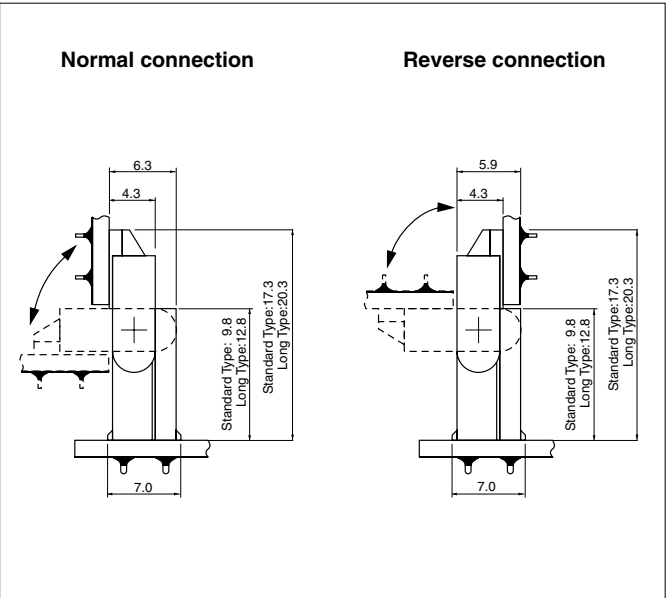
RoHS compliance

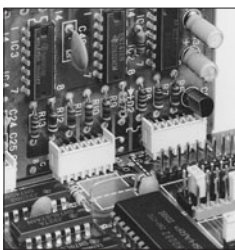
PC board layout (viewed from component side)



Note:
1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline.
Contact JST for details.

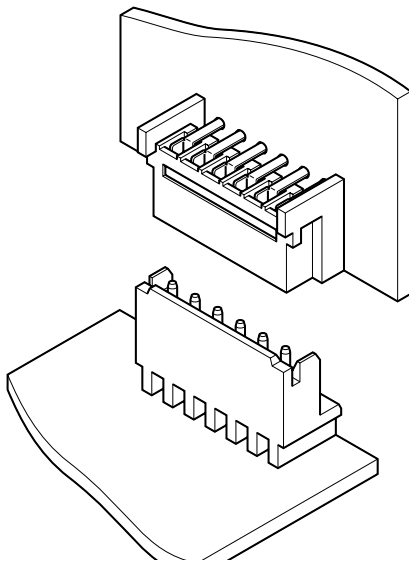
Assembly layout





MQ CONNECTOR

2.0mm pitch/Board-to-board connectors



Measuring 2.0mm in pitch, 9.2mm in mounting height and 5.5mm in thickness, this board-to-board connector makes high-density mounting of components in electronic products possible. It is ideal for small electronic products, such as portable VCRs and video cameras, which require high-density mounting and high reliability.

- Back-up support spring construction
- Easy insertion
- Board retention feature

Specifications

- Current rating: 1.0A AC, DC
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable PC board thickness: 1.2 to 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

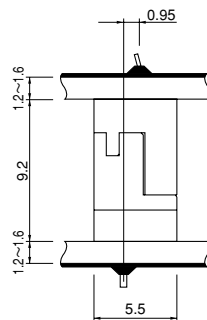
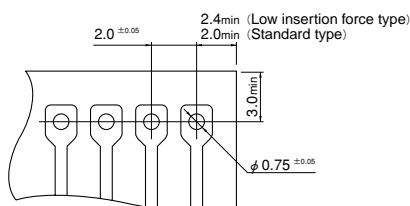
Recognized E60389

Certified LR20812

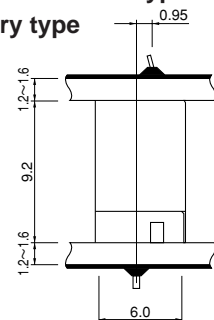
R9351042

PC board layout (viewed from soldering side) and Assembly layout

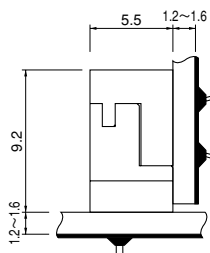
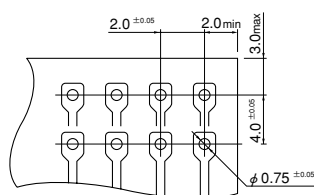
Top entry type



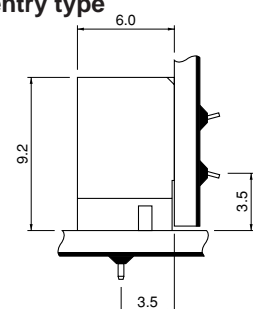
Low insertion force type Top entry type



Side entry type



Low insertion force type Side entry type



Note: 1. The PC board layout of the header is identical to that of the top entry receptacle.

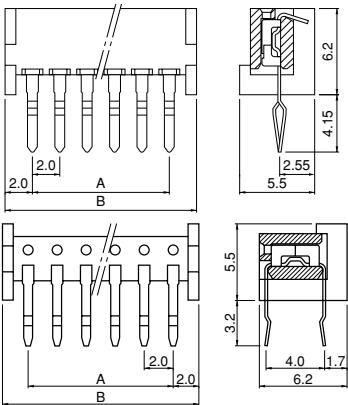
2. Tolerances are non-cumulative: ± 0.05 mm for all centers.

3. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

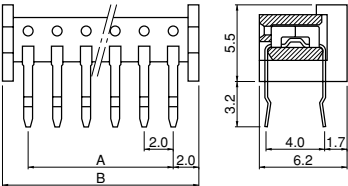
MQ CONNECTOR

Receptacle

Top entry type



Side entry type



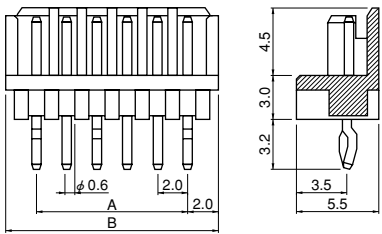
Circuits	Model No.		Dimensions (mm)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
5	05MQ-BT	05MQ-ST	8.0	12.0	500	500
6	06MQ-BT	06MQ-ST	10.0	14.0	500	500
7	07MQ-BT	07MQ-ST	12.0	16.0	500	500
8	08MQ-BT	08MQ-ST	14.0	18.0	500	250
9	09MQ-BT	09MQ-ST	16.0	20.0	500	250
10	10MQ-BT	10MQ-ST	18.0	22.0	250	250
12	12MQ-BT	12MQ-ST	22.0	26.0	250	250

Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0, natural

RoHS compliance

Shrouded header



Circuits	Model No.	Dimensions (mm)		Q'ty/box
		A	B	
5	B5P-MQ	8.0	12.0	500
6	B6P-MQ	10.0	14.0	500
7	B7P-MQ	12.0	16.0	500
8	B8P-MQ	14.0	18.0	500
9	B9P-MQ	16.0	20.0	500
10	B10P-MQ	18.0	22.0	250
12	B12P-MQ	22.0	26.0	200

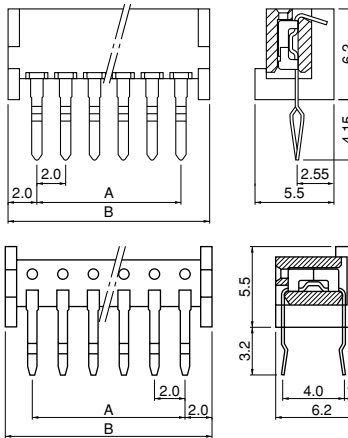
Material and Finish

Pin: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, natural

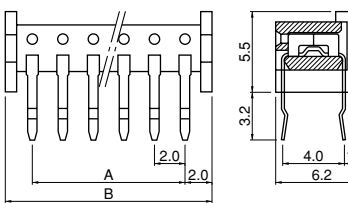
RoHS compliance This product displays (LF)(SN) on a label.

Low insertion force type Receptacle

Top entry type



Side entry type



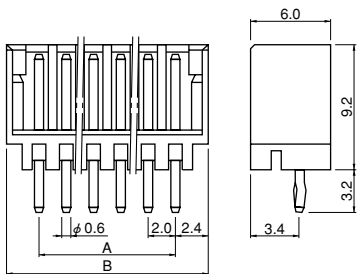
Circuits	Model No.		Dimensions (mm)		Q'ty/box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
4	04MQ-BT-L	04MQ-ST-L	6.0	10.0	500	500
5	05MQ-BT-L	05MQ-ST-L	8.0	12.0	500	500
6	06MQ-BT-L	06MQ-ST-L	10.0	14.0	500	500
7	07MQ-BT-L	07MQ-ST-L	12.0	16.0	500	500
8	08MQ-BT-L	08MQ-ST-L	14.0	18.0	500	250
9	09MQ-BT-L	09MQ-ST-L	16.0	20.0	500	250
10	10MQ-BT-L	10MQ-ST-L	18.0	22.0	250	250
12	12MQ-BT-L	12MQ-ST-L	22.0	26.0	250	250

Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0, natural

RoHS compliance

Low insertion force type Shrouded header

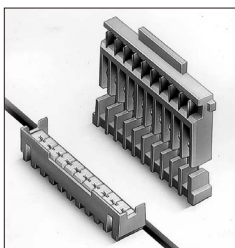


Circuits	Model No.	Dimensions (mm)		Q'ty/box
		A	B	
4	B4P-MQ-C	6.0	10.8	500
5	B5P-MQ-C	8.0	12.8	500
6	B6P-MQ-C	10.0	14.8	500
7	B7P-MQ-C	12.0	16.8	250
8	B8P-MQ-C	14.0	18.8	250
9	B9P-MQ-C	16.0	20.8	250
10	B10P-MQ-C	18.0	22.8	250
12	B12P-MQ-C	22.0	26.8	200

Material and Finish

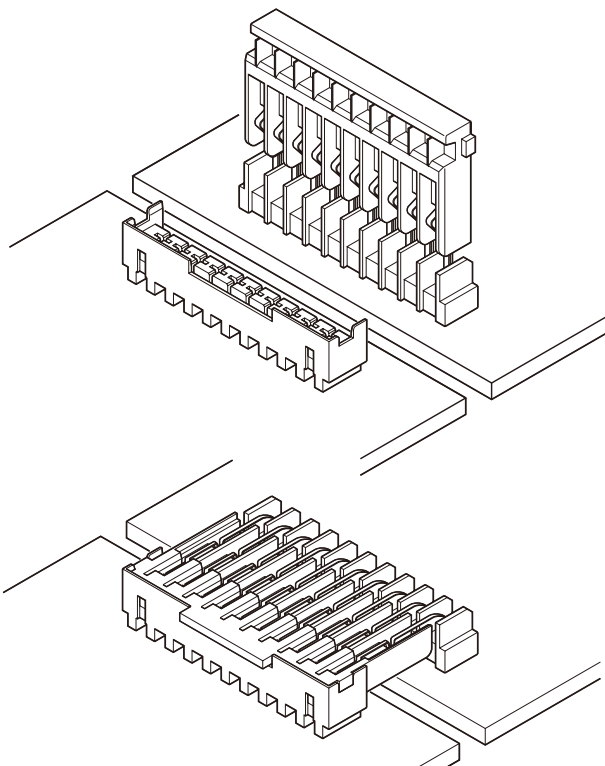
Pin: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0

RoHS compliance This product displays (LF)(SN) on a label.



2.5FJ CONNECTOR

2.5mm pitch/Board-to-board connectors



The 2.5FJ connector is a 2.5mm pitch board-to-board connector. The connector halves can be mated after the installation of the printed circuit boards in their enclosure.

- Flexible connection absorbs circuit board misalignment
- Provides a low profile mount and allows connection after mounting
- Assures a reliable connection

Specifications

- Current rating: 1.0A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/60m Ω max.
After environmental testing/80m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable PC board thickness: 1.6mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

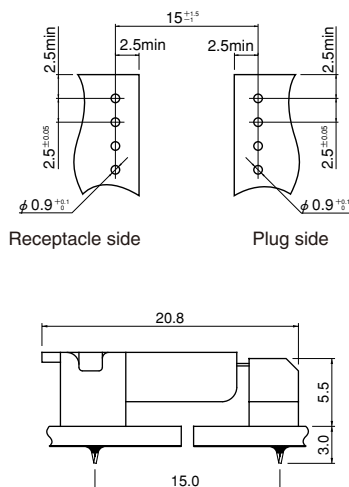
Standards

Recognized E60389

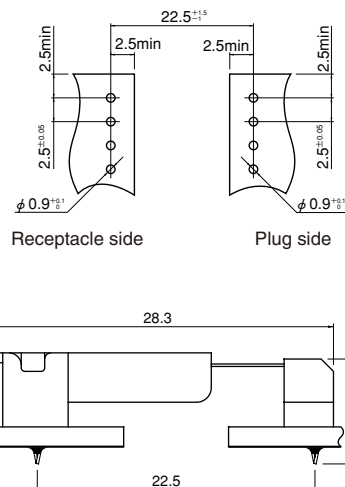
Certified LR20812

PC board layout (viewed from component side) and Assembly layout

Short type



Long type



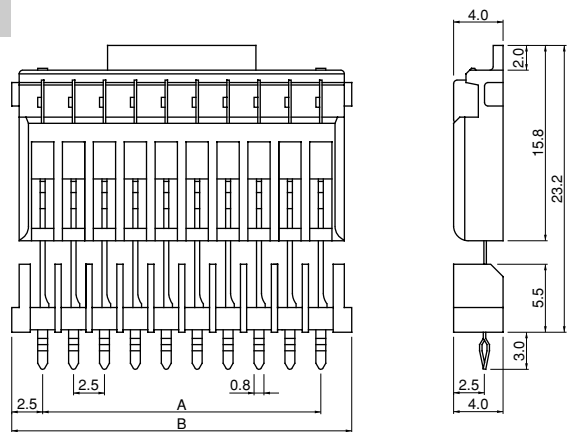
Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

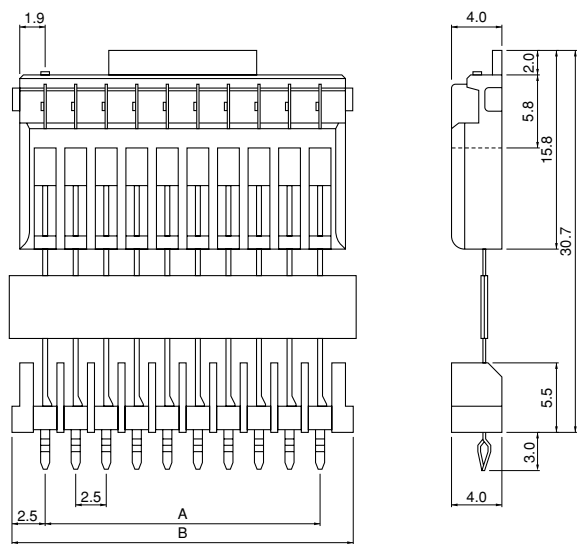
2.5FJ CONNECTOR

Plug

Short type



Long type



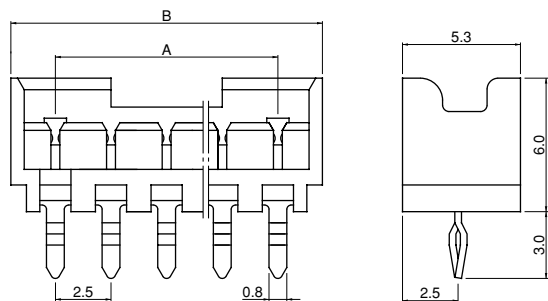
Circuits	Model No.		Dimensions (mm)		Q'ty / box	
	Short type	Long type	A	B	Short type	Long type
5	05TM-2.5FJ	—	10.0	15.0	200	—
10	10TM-2.5FJ	10PN-2.5FJ	22.5	27.5	100	100

Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0,
Short type —white (natural)
Long type —white (natural)

RoHS compliance
Note: 10PN-2.5FJ is not UL/CSA approved.

Receptacle

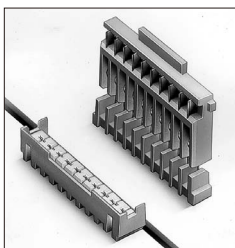


Circuits	Model No.	Dimensions (mm)		Q'ty/box
		A	B	
5	05R-2.5FJ	10.0	15.0	200
10	10R-2.5FJ	22.5	27.5	200

Material and Finish

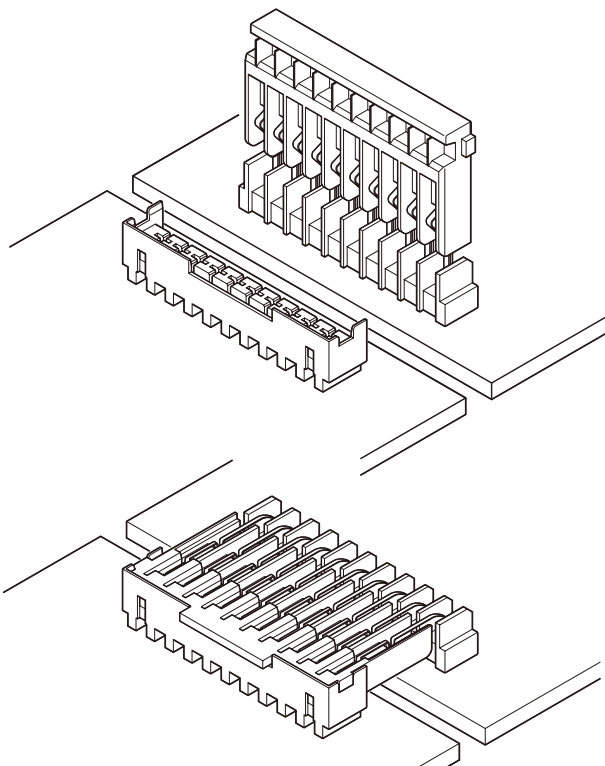
Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0

RoHS compliance This product displays (LF)(SN) on a label.



2.5FJ CONNECTOR

2.5mm pitch/Board-to-board connectors



The 2.5FJ connector is a 2.5mm pitch board-to-board connector. The connector halves can be mated after the installation of the printed circuit boards in their enclosure.

- Flexible connection absorbs circuit board misalignment
- Provides a low profile mount and allows connection after mounting
- Assures a reliable connection

Specifications

- Current rating: 1.0A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/60m Ω max.
After environmental testing/80m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable PC board thickness: 1.6mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

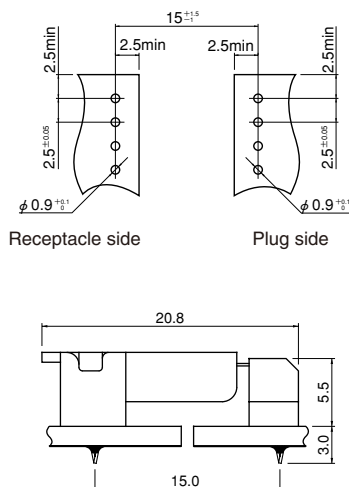
Standards

Recognized E60389

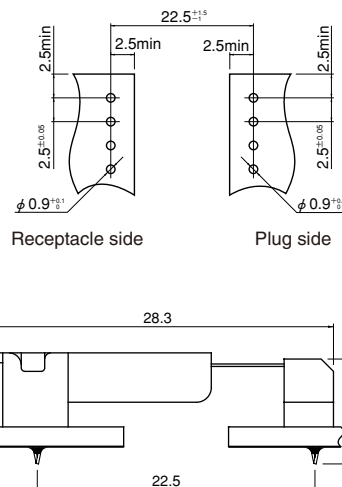
Certified LR20812

PC board layout (viewed from component side) and Assembly layout

Short type



Long type



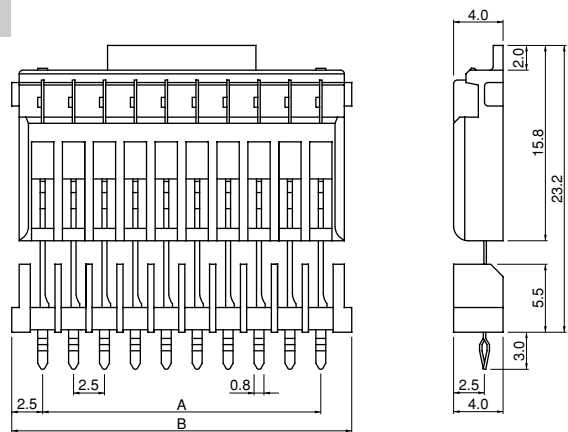
Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

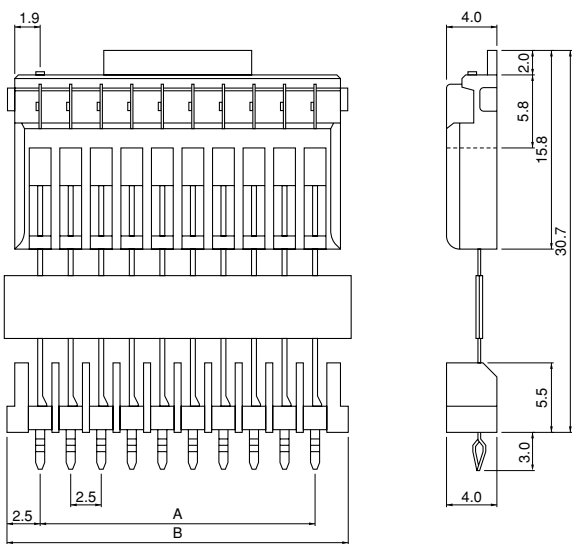
2.5FJ CONNECTOR

Plug

Short type



Long type



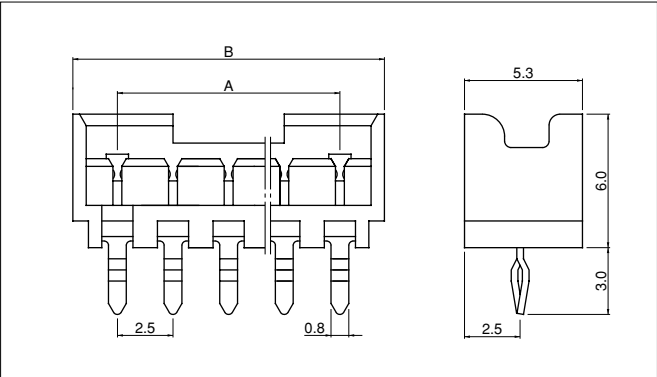
Circuits	Model No.		Dimensions (mm)		Q'ty / box	
	Short type	Long type	A	B	Short type	Long type
5	05TM-2.5FJ	—	10.0	15.0	200	—
10	10TM-2.5FJ	10PN-2.5FJ	22.5	27.5	100	100

Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0,
Short type —white (natural)
Long type —white (natural)

RoHS compliance
Note: 10PN-2.5FJ is not UL/CSA approved.

Receptacle

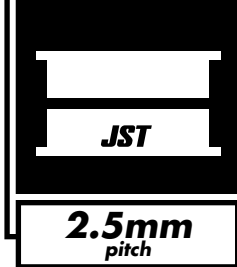


Circuits	Model No.	Dimensions (mm)		Q'ty/box
		A	B	
5	05R-2.5FJ	10.0	15.0	200
10	10R-2.5FJ	22.5	27.5	200

Material and Finish

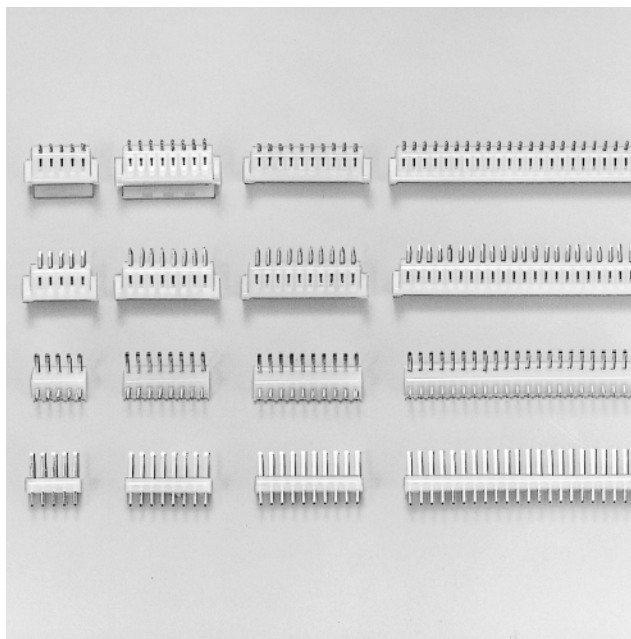
Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0

RoHS compliance This product displays (LF)(SN) on a label.

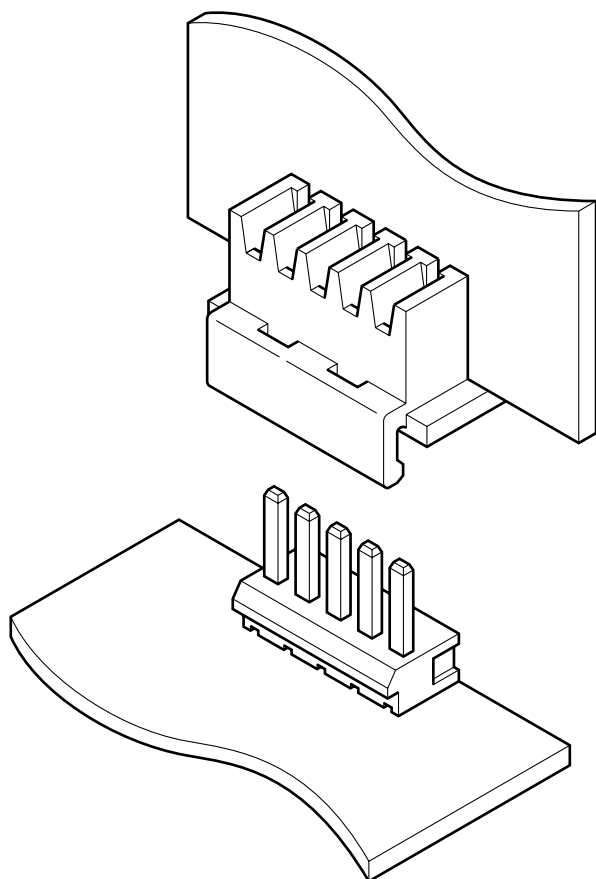


HVQ CONNECTOR

Board-to-board connectors



This 2.5mm pitch connector is used to interconnect printed circuit boards in parallel, vertically or horizontally.



Features

• Superior folded beam construction

- (1) This sturdy construction withstands repeated stress, resists permanent deformation, and offers a very long service life.
- (2) This contact design has a large tolerance for variations in mating post thickness and resists deformation when pried.

• Wide, sturdy post

The post has a large cross-sectional area to resist prying during insertion into printed circuit boards and mating with connector housings.

• Molded-in header

The posts are molded into the insulator to provide stability when mounted on printed circuit boards. This also prevents flux from entering the connector during soldering.

Specifications

- Current rating: 3A AC, DC
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

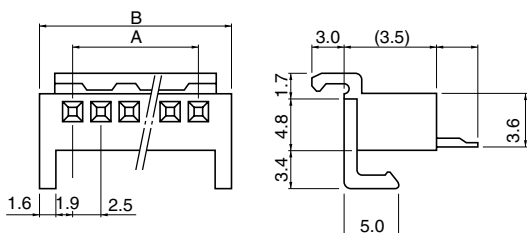
 Recognized E60389

 Certified LR20812

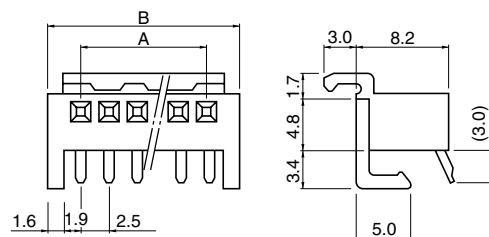
HVQ CONNECTOR

Receptacle

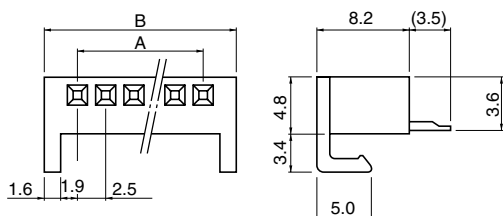
Top entry type with lock



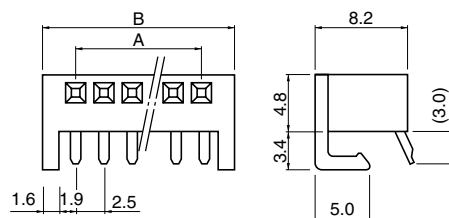
Side entry type with lock



Top entry type without lock



Side entry type without lock



Cir- cuits	Model No.				Dimensions (mm)		Q'ty / box	
	Top entry type		Side entry type					
	With lock	Without lock	With lock	Without lock	A	B	With lock	Without lock
3	—	F 3P-HVQ	—	F 3P-SHVQ	5.0	12.0	—	500
4	—	F 4P-HVQ	—	F 4P-SHVQ	7.5	14.5	—	500
5	5P-HVQ	F 5P-HVQ	5P-SHVQ	F 5P-SHVQ	10.0	17.0	250	250
6	6P-HVQ	F 6P-HVQ	6P-SHVQ	F 6P-SHVQ	12.5	19.5	250	250
7	7P-HVQ	F 7P-HVQ	7P-SHVQ	F 7P-SHVQ	15.0	22.0	200	250
8	8P-HVQ	F 8P-HVQ	8P-SHVQ	F 8P-SHVQ	17.5	24.5	200	200
9	9P-HVQ	F 9P-HVQ	9P-SHVQ	F 9P-SHVQ	20.0	27.0	200	200
10	10P-HVQ	F10P-HVQ	10P-SHVQ	F10P-SHVQ	22.5	29.5	100	200
11	11P-HVQ	F11P-HVQ	11P-SHVQ	F11P-SHVQ	25.0	32.0	100	150
12	12P-HVQ	F12P-HVQ	12P-SHVQ	F12P-SHVQ	27.5	34.5	100	150
13	—	F13P-HVQ	—	F13P-SHVQ	30.0	37.0	—	100
14	—	F14P-HVQ	—	F14P-SHVQ	32.5	39.5	—	100
15	—	F15P-HVQ	—	F15P-SHVQ	35.0	42.0	—	100
16	—	F16P-HVQ	—	F16P-SHVQ	37.5	44.5	—	100
17	—	F17P-HVQ	—	F17P-SHVQ	40.0	47.0	—	100
18	—	F18P-HVQ	—	F18P-SHVQ	42.5	49.5	—	100
19	—	F19P-HVQ	—	F19P-SHVQ	45.0	52.0	—	100
20	—	F20P-HVQ	—	F20P-SHVQ	47.5	54.5	—	100
21	—	F21P-HVQ	—	F21P-SHVQ	50.0	57.0	—	100
22	—	F22P-HVQ	—	F22P-SHVQ	52.5	59.5	—	100
23	—	F23P-HVQ	—	F23P-SHVQ	55.0	62.0	—	100
24	—	F24P-HVQ	—	F24P-SHVQ	57.5	64.5	—	100
25	—	F25P-HVQ	—	F25P-SHVQ	60.0	67.0	—	100

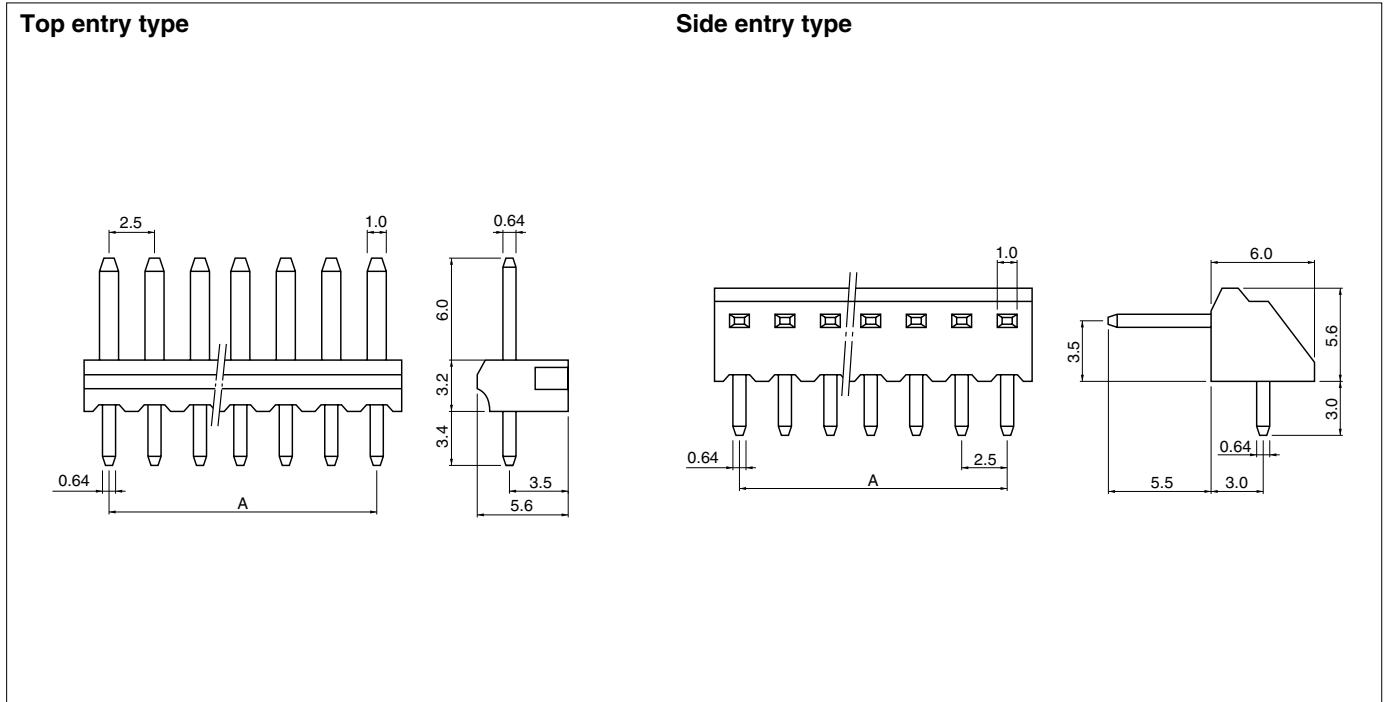
Material and Finish

Contact: Brass, tin-plated (reflow treatment)
Housing: PA 66, UL94V-2, natural

RoHS compliance

D107 **JST**

Shrouded header



Cir- cuits	Model No.		Dimensions A (mm)	Q'ty / box	
	Top entry type	Side entry type		Top entry type	Side entry type
3	B 3P-SHF-1AA	BS 3P-SHF-1AA	5.0	1,000	1,000
4	B 4P-SHF-1AA	BS 4P-SHF-1AA	7.5	1,000	1,000
5	B 5P-SHF-1AA	BS 5P-SHF-1AA	10.0	1,000	1,000
6	B 6P-SHF-1AA	BS 6P-SHF-1AA	12.5	1,000	1,000
7	B 7P-SHF-1AA	BS 7P-SHF-1AA	15.0	500	500
8	B 8P-SHF-1AA	BS 8P-SHF-1AA	17.5	500	500
9	B 9P-SHF-1AA	BS 9P-SHF-1AA	20.0	500	500
10	B10P-SHF-1AA	BS10P-SHF-1AA	22.5	500	500
11	B11P-SHF-1AA	BS11P-SHF-1AA	25.0	500	500
12	B12P-SHF-1AA	BS12P-SHF-1AA	27.5	250	200
13	B13P-SHF-1AA	BS13P-SHF-1AA	30.0	250	200
14	B14P-SHF-1AA	BS14P-SHF-1AA	32.5	250	200
15	B15P-SHF-1AA	BS15P-SHF-1AA	35.0	250	200
16	B16P-SHF-1AA	BS16P-SHF-1AA	37.5	250	200
17	B17P-SHF-1AA	BS17P-SHF-1AA	40.0	250	200
18	B18P-SHF-1AA	BS18P-SHF-1AA	42.5	250	200
19	B19P-SHF-1AA	BS19P-SHF-1AA	45.0	250	200
20	B20P-SHF-1AA	BS20P-SHF-1AA	47.5	250	200
21	B21P-SHF-1AA	BS21P-SHF-1AA	50.0	250	200
22	B22P-SHF-1AA	BS22P-SHF-1AA	52.5	250	200
23	B23P-SHF-1AA	BS23P-SHF-1AA	55.0	250	200
24	B24P-SHF-1AA	BS24P-SHF-1AA	57.5	250	200
25	B25P-SHF-1AA	BS25P-SHF-1AA	60.0	250	200

Material and Finish

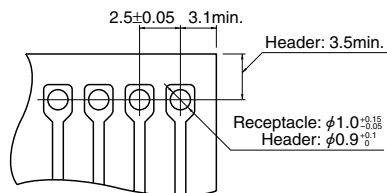
Post: Brass copper-undercoated, tin-plated (reflow treatment)
Base: PA 66, UL94V-0, natural

RoHS compliance This product displays (LF)(SN) on a label.

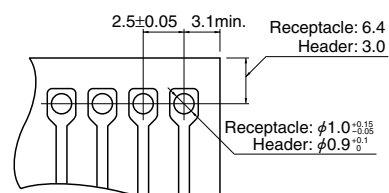
HVQ CONNECTOR

PC board layout (viewed from soldering side)

Top entry type



Side entry type

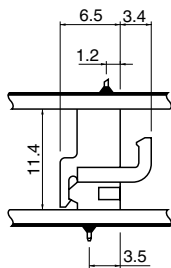


Note:

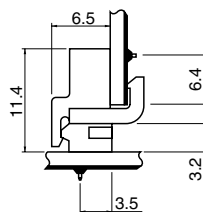
1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Assembly layout

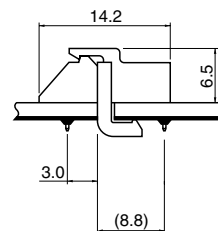
Top entry type receptacle and top entry type shrouded header



Side entry type receptacle and top entry type shrouded header



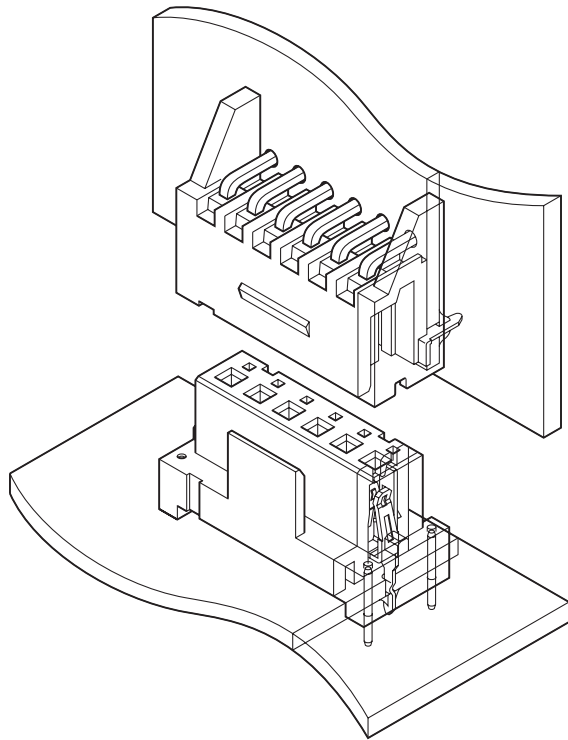
Side entry type receptacle and side entry type shrouded header





JL CONNECTOR

2.5mm pitch/Board-to-board connectors



The JL connector is designed for board-to-board connection in electronic equipment requiring high-density mounting and unitization. This connector is highly resistant to equipment vibration and shock.

- **High contact pressure**
- **Housing lock assures good connection even after severe shock & vibration**
- **Reinforcing pins increase PCB mounting durability**
- **Polarized, fully shrouded header aligns the connector halves before their pins make contact**

Specifications

- Current rating: 3A AC, DC
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,000V AC/minute
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

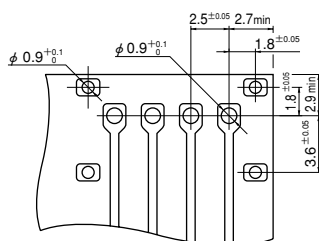
Standards

Ⓜ Recognized E60389

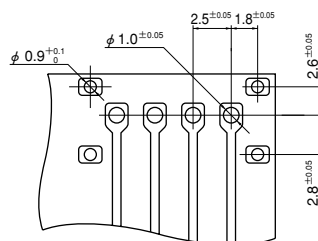
Ⓢ Certified LR20812

PC board layout (viewed from soldering side) and Assembly layout

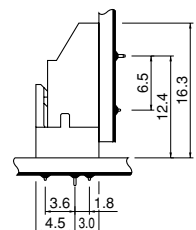
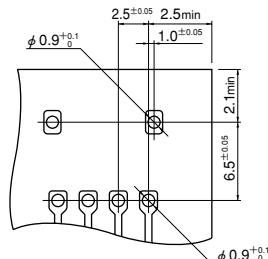
Receptacle



Receptacle on radial-tape



Shrouded header

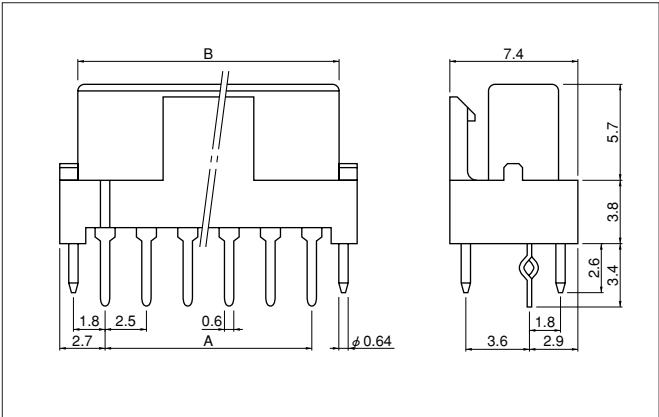


Note: 1. Tolerances are non-cumulative: ± 0.05 mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

JL CONNECTOR

Receptacle



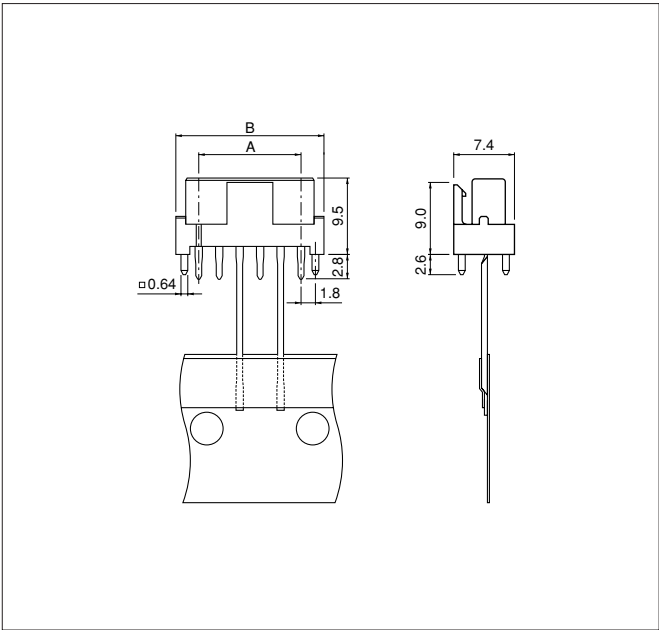
Circuits	Model No.	Dimensions (mm)		Q'ty/box
		A	B	
3	03JL-BT-E	5.0	8.2	250
4	04JL-BT-E	7.5	10.7	200
5	05JL-BT-E	10.0	13.2	200
6	06JL-BT-E	12.5	15.7	200
7	07JL-BT-E	15.0	18.2	200
8	08JL-BT-E	17.5	20.7	100
9	09JL-BT-E	20.0	23.2	100
10	10JL-BT-E	22.5	25.7	100
11	11JL-BT-E	25.0	28.2	100
12	12JL-BT-E	27.5	30.7	100
13	13JL-BT-E	30.0	33.2	100
15	15JL-BT-E	35.0	38.2	50

Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0, blue
Reinforcing pins: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Receptacle on radial-tape



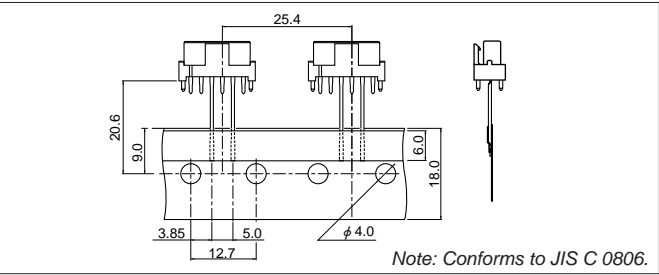
Circuits	Model No.	Dimensions (mm)		Q'ty/box
		A	B	
5	05JL-BT-M-T	10.0	15.4	400
6	06JL-BT-M-T	12.5	17.9	400
7	07JL-BT-M-T	15.0	20.4	400
8	08JL-BT-M-T	17.5	22.9	400

Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0
Reinforcing pins: Brass, copper-undercoated, tin-plated (reflow treatment)

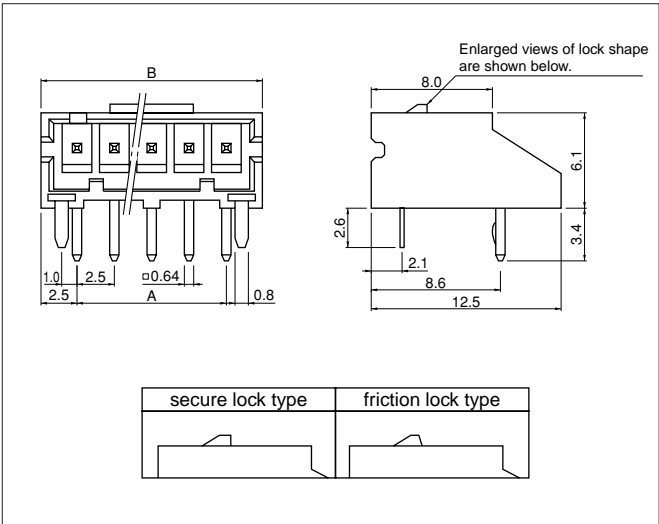
RoHS compliance This product displays (LF)(SN) on a label.

Taping Specifications



Note: Conforms to JIS C 0806.

Shrouded header



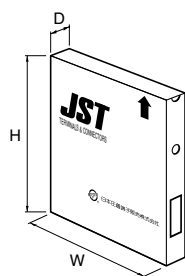
Circuits	Model No.		Dimensions (mm)		Q'ty/box
	secure lock type	friction lock type	A	B	
3	S3B-JL-R	S3B-JL-F-E	5.0	10.0	250
4	S4B-JL-R	S4B-JL-F-E	7.5	12.5	200
5	S5B-JL-R	S5B-JL-F-E	10.0	15.0	200
6	S6B-JL-R	S6B-JL-F-E	12.5	17.5	200
7	S7B-JL-R	S7B-JL-F-E	15.0	20.0	200
8	S8B-JL-R	S8B-JL-F-E	17.5	22.5	100
9	S9B-JL-R	S9B-JL-F-E	20.0	25.0	100
10	S10B-JL-R	S10B-JL-F-E	22.5	27.5	100
11	S11B-JL-R	S11B-JL-F-E	25.0	30.0	100
12	S12B-JL-R	S12B-JL-F-E	27.5	32.5	100
13	S13B-JL-R	S13B-JL-F-E	30.0	35.0	100
15	S15B-JL-R	S15B-JL-F-E	35.0	40.0	100

Material and Finish

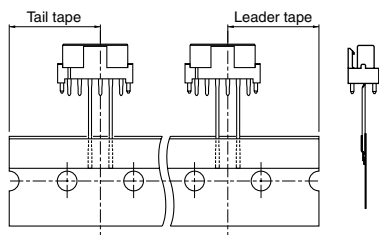
Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, red (secure lock type), blue (friction lock type)
Reinforcing pins: Brass, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Packaging specifications



Distance between the end of the tape and the first connector's center line (either end)



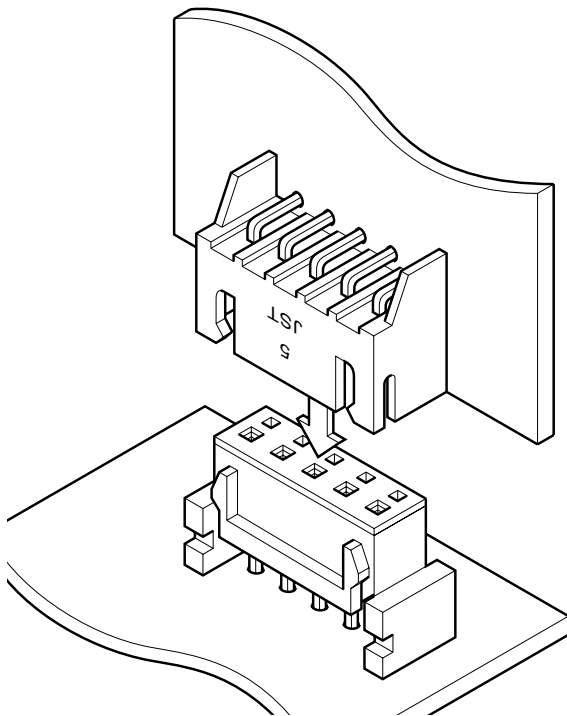
Package type	Flat pack (zigzag folded)
Distance between folds	24 indexing holes perfold (304.8mm)
Box size	315(W)×48(D)×285(H)mm
Distance between the end of the tape and the first connector's center line (either end)	19.05mm

*None: Products of different packaging specifications are also available.
Contact JST for details.*



JQ CONNECTOR

2.5mm pitch/Board-to-board connectors



This 2.5mm pitch connector is used to interconnect printed circuit boards. It easily resists distortion during mating, thus ensuring reliable contact, even under adverse conditions.

- **High contact pressure**
- **Box-shaped shroud**
- **Secure locking on printed circuit boards**
- **Vertical, horizontal and parallel mounting**
- **Interchangeability**

Specifications

- Current rating: 3A AC, DC
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,000V AC/minute
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

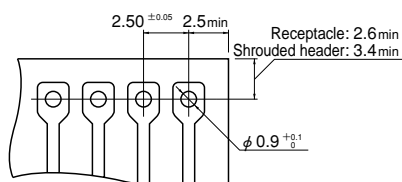
Recognized E60389

Certified LR20812

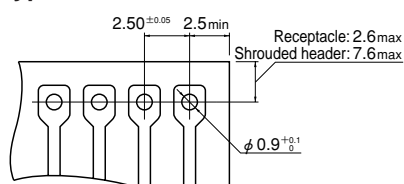
R75085

PC board layout (viewed from soldering side) and Assembly layout

Top entry type



Side entry type



Combinations		Receptacle	
		Top entry type	Side entry type
Shrouded header	Top entry type B (JB-XH-A)		
	Side entry type S (JB-XH-A-1)		

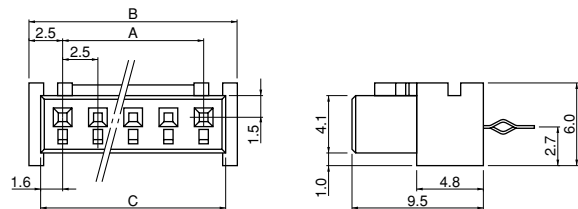
Note: 1. Tolerances are non-cumulative: ± 0.05 mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

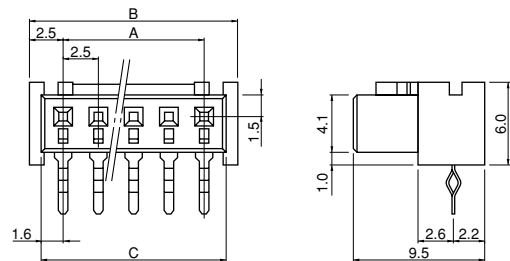
JQ CONNECTOR

Receptacle

Top entry type



Side entry type



Circuits	Model No.		Dimensions (mm)			Q'ty / box	
	Top entry type	Side entry type	A	B	C	Top entry type	Side entry type
3	03JQ-BT	03JQ-ST	5.0	10.0	8.2	500	500
4	04JQ-BT	04JQ-ST	7.5	12.5	10.7	500	500
5	05JQ-BT	05JQ-ST	10.0	15.0	13.2	500	500
6	06JQ-BT	06JQ-ST	12.5	17.5	15.7	500	500
7	07JQ-BT	07JQ-ST	15.0	20.0	18.2	250	250
8	08JQ-BT	08JQ-ST	17.5	22.5	20.7	200	250
9	09JQ-BT	09JQ-ST	20.0	25.0	23.2	200	250
10	10JQ-BT	10JQ-ST	22.5	27.5	25.7	250	250
11	11JQ-BT	11JQ-ST	25.0	30.0	28.2	250	250
12	12JQ-BT	12JQ-ST	27.5	32.5	30.7	200	200
13	13JQ-BT	13JQ-ST	30.0	35.0	33.2	200	200
15	15JQ-BT	15JQ-ST	35.0	40.0	38.2	100	100

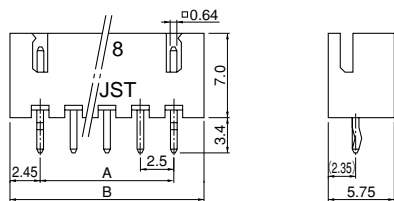
Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0, natural

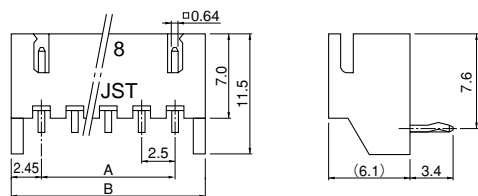
RoHS compliance

Shrouded header

Top entry type



Side entry type



Circuits	Model No.		Dimensions (mm)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
3	B3B-XH-A	S3B-XH-A-1	5.0	9.9	1,000	1,000
4	B4B-XH-A	S4B-XH-A-1	7.5	12.4	500	500
5	B5B-XH-A	S5B-XH-A-1	10.0	14.9	500	500
6	B6B-XH-A	S6B-XH-A-1	12.5	17.4	500	500
7	B7B-XH-A	S7B-XH-A-1	15.0	19.9	500	250
8	B8B-XH-A	S8B-XH-A-1	17.5	22.4	500	250
9	B9B-XH-A	S9B-XH-A-1	20.0	24.9	500	250
10	B10B-XH-A	S10B-XH-A-1	22.5	27.4	250	250
11	B11B-XH-A	S11B-XH-A-1	25.0	29.9	250	250
12	B12B-XH-A	S12B-XH-A-1	27.5	32.4	250	200
13	B13B-XH-A	S13B-XH-A-1	30.0	34.9	250	200
14	B14B-XH-A	S14B-XH-A-1	32.5	37.4	250	200
15	B15B-XH-A	S15B-XH-A-1	35.0	39.9	250	200

Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, natural (white)

RoHS compliance

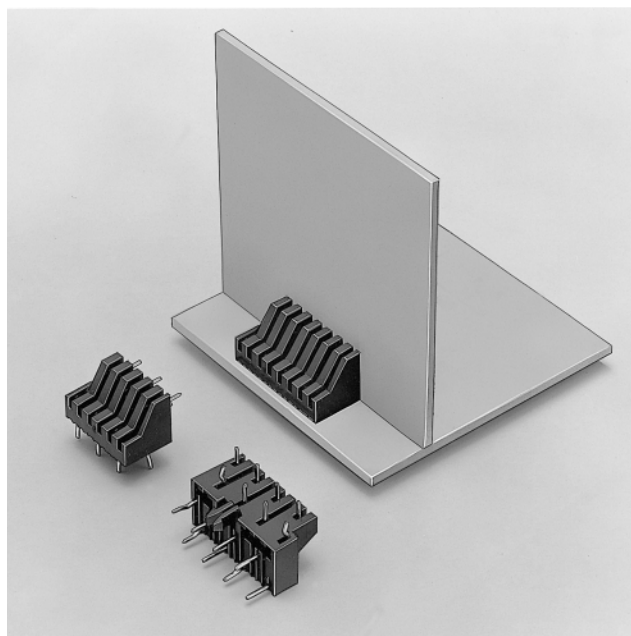
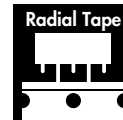
This product displays (LF)(SN) on a label.



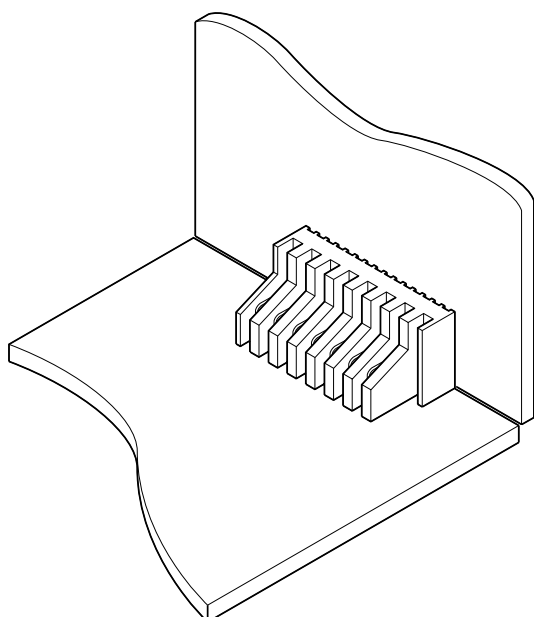
2.5mm
pitch

MBS HEADER

Headers



The MBS headers can be used to directly connect PC boards.
The staggered pins improve the mechanical strength of the daughter card restraining system.
The MBS header is supplied radial-taped for automatic mounting.



Features

• ***Tape specifications conform to JIS standards***

The tape specifications for this header conform to JIS standards for radially lead components on tape (JIS C0805). The header can thus be loaded into most general-purpose radial lead component insertion machines.

• ***Staggered pins***

The 2.5mm pitch staggered pins increase the mechanical stability and strength of the connector's solder points. The MBS connector also features solder crack preventing materials.

• ***Temporary board retention feature***

The MBS header has a locking boss that allows it to be temporarily mounted on the printed circuit board. This prevents the header from lifting or changing position while it is being processed.

Specifications

- Current rating: 1.0A AC, DC
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

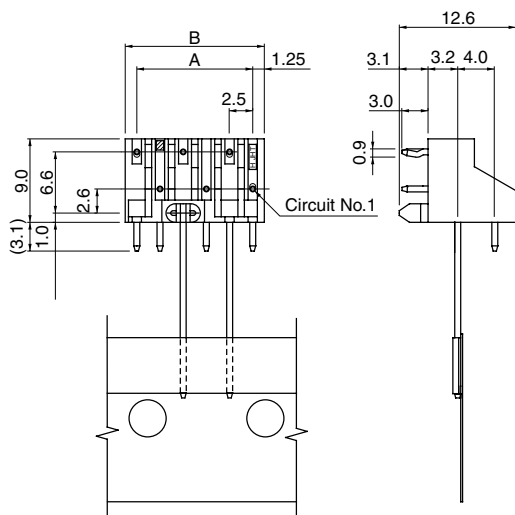
 Recognized E60389

 Certified LR20812

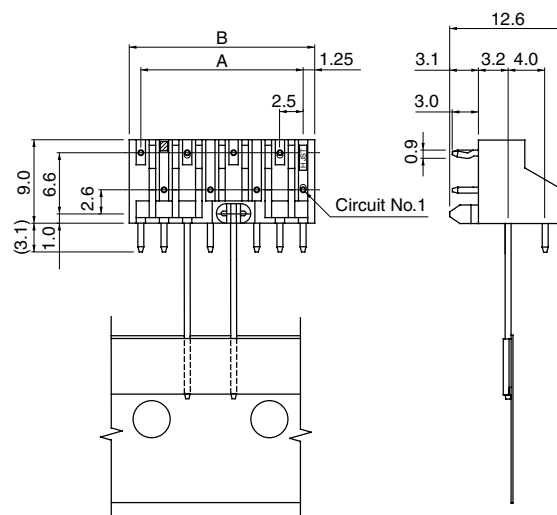
MBS HEADER

Header

(6 circuits)



(8 circuits)



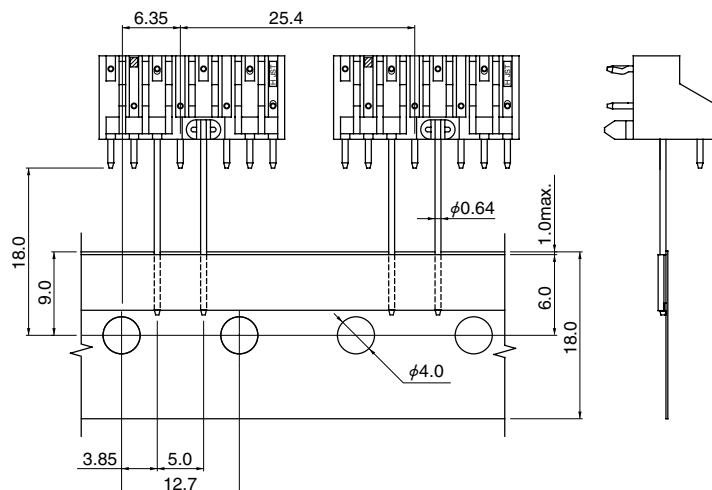
Cir- cuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
6	MBS06P-1T	12.5	15.0	300
8	MBS08P-1T	17.5	20.0	300

Material and Finish

Post: Brass copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PBT, UL94V-0

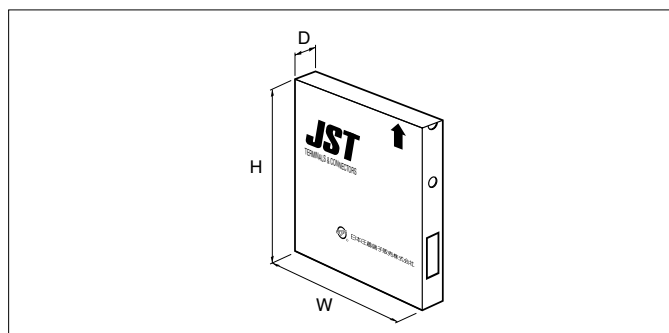
RoHS compliance This product displays (LF)(SN) on a label.

Tape dimensions



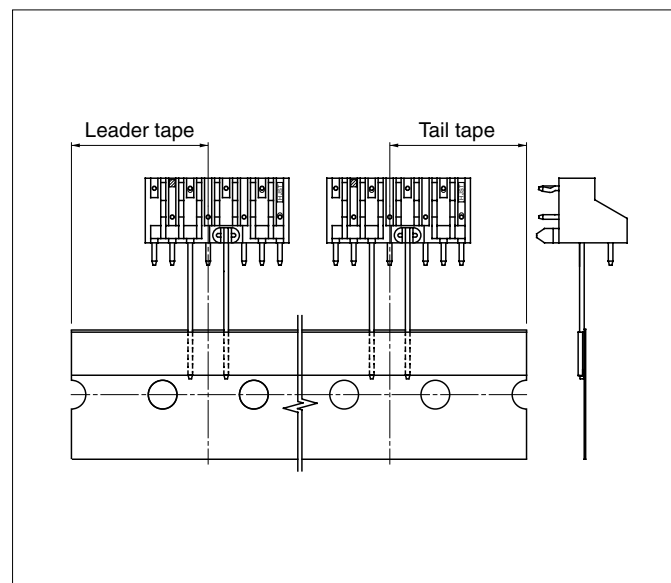
Note: Conforms to JIS C 0806.

Packaging specifications

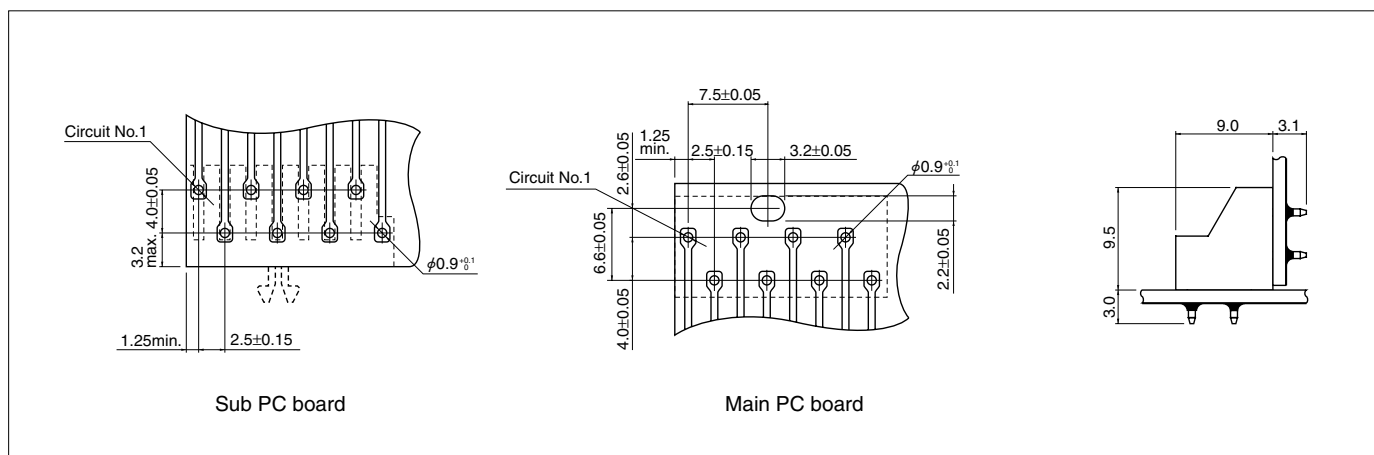


Package type	Flat pack (zigzag folded)
Distance between folds	24 indexing holes per fold [304.8mm]
Box size	316(W)x45(D)x314(H)mm
Distance between the end of the tape and the first connector's center line (either end)	19.05mm

Note: Products with different packaging specifications are also available.
Contact JST for details.

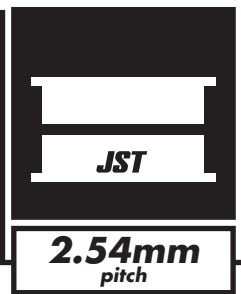


PC board layout (viewed from soldering side) and Assembly layout



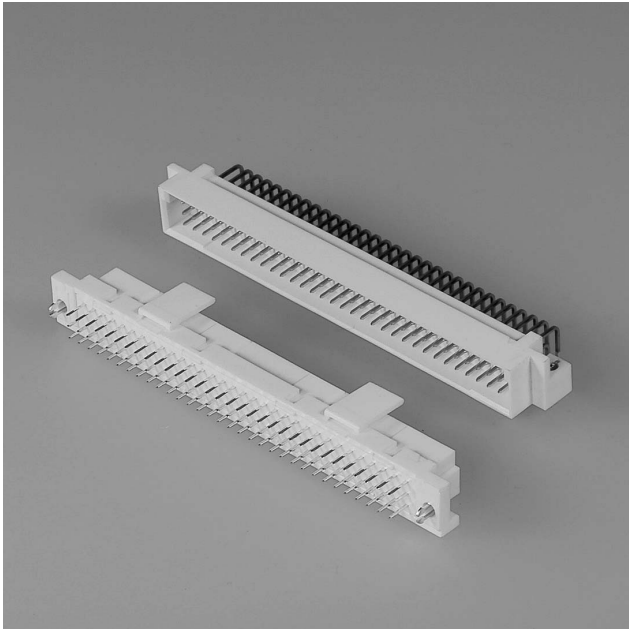
Note:

1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method.
The dimensions above should serve as a guideline. Contact JST for details.

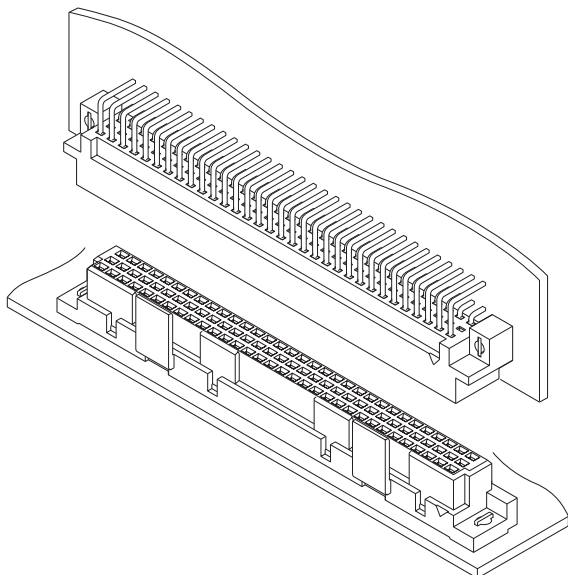


DIN CONNECTOR

Board-to-board connectors



**Multicircuit and self-supporting style
board-to-board connector**



Features

- **Conforms to DIN standards**

- **Secure locking mechanism**

This mechanism securely holds housings and improves resistance to vibration and shock of PC board. The friction lock connector is also available.

- **Secure locking on PC board**

The DIN connector has hook pins that allows it to be temporarily mounted on the PC board. This prevents connector from lifting or changing position while it is being mounted.

Specifications

- Current rating: 1.0A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/30m Ω max.
After environmental testing/50m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable PC board thickness: 1.6mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

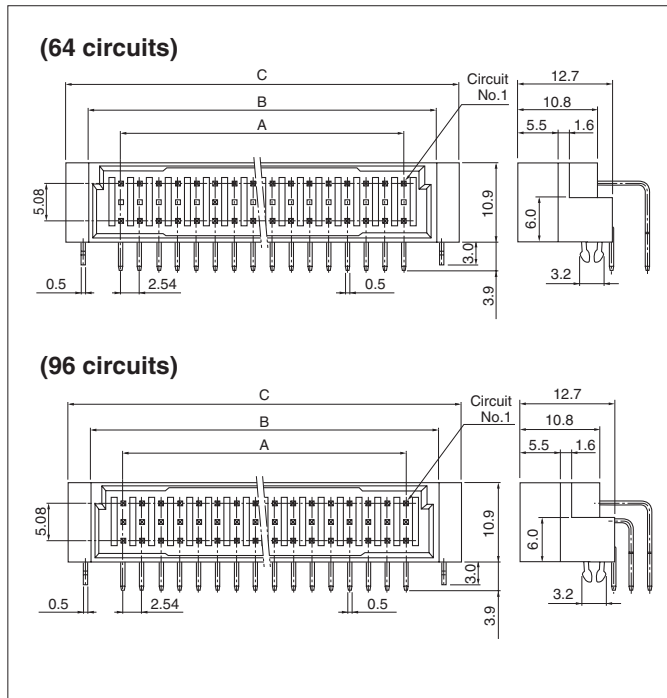
Standards

Recognized E60389

Certified LR20812

DIN CONNECTOR

Plug



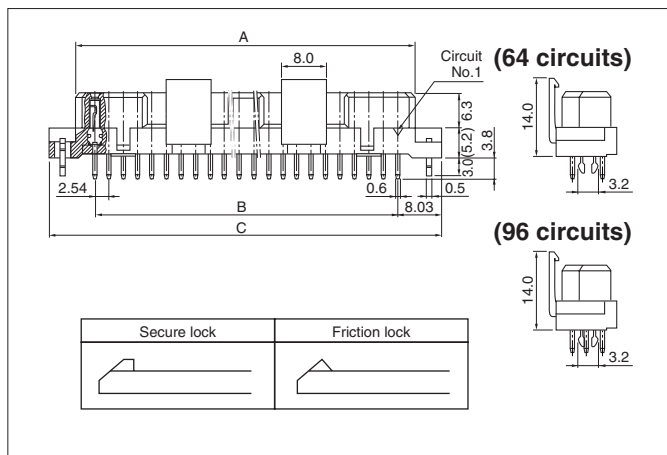
Circuits	Model No.	Dimensions (mm)			Q'ty / box
		A	B	C	
64	DIN-PS6464B-10	78.74	87.5	93.8	30
96	DIN-PS9696B-10	78.74	87.5	93.8	30

Material and Finish

Contact: Brass, nickel-undercoated, Mating part; gold-plated
 Solder tail; tin-plated (reflow treatment)
 Housing: Glass-filled PBT, UL94V-0
 Reinforcing pin: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Receptacle



Circuits	Model No.		Dimensions (mm)			Q'ty / box
	Secure lock type	Friction lock type	A	B	C	
64	DIN-R6464LB-10	DIN-R6464FLB-10	85.0	78.74	94.8	30
96	DIN-R9696LB-10	DIN-R9696FLB-10	85.0	78.74	94.8	30

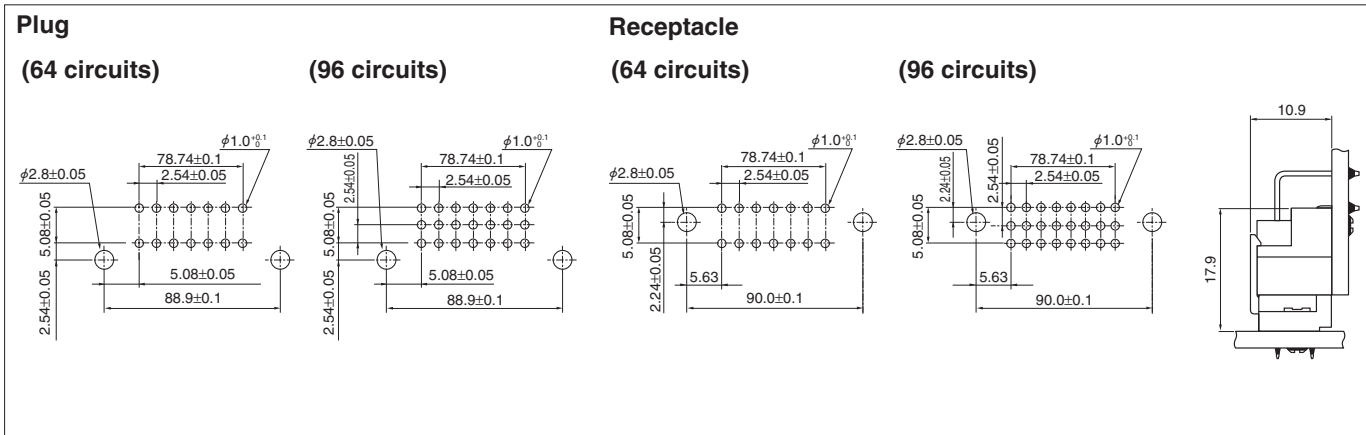
Material and Finish

Contact: Phosphor bronze, nickel-undercoated,
 Mating part; gold-plated
 Solder tail; tin-plated (reflow treatment)
 Housing: Glass-filled PBT, UL94V-0
 Holder: Glass-filled PBT, UL94V-0
 Reinforcing pin: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

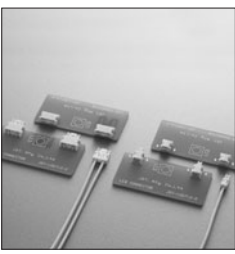
DIN CONNECTOR

PC board layout (viewed from component side) and Assembly layout



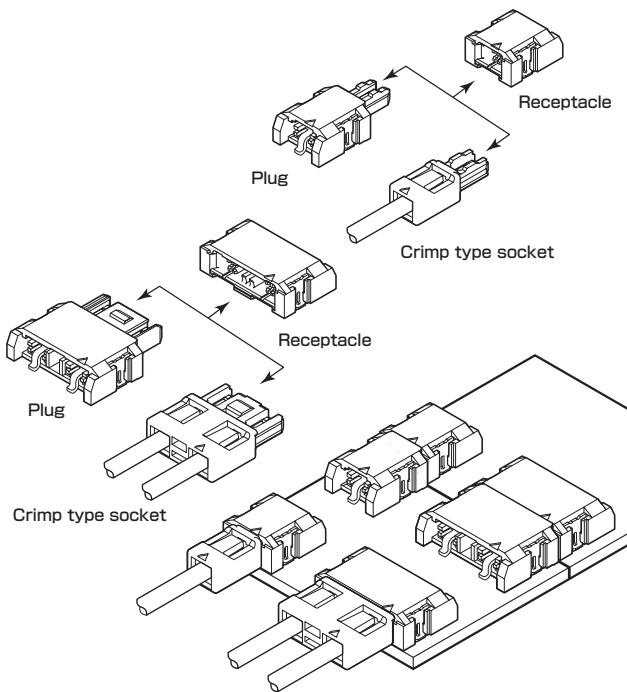
Note:

1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method.
The dimensions above should serve as a guideline. Contact JST for details.



LEB CONNECTOR

4.0mm pitch/For LED Lamp/Board-to-board, Disconnectable Crimp style connectors



Considering about luminescence property of LED device, this LEB connector is designed as low profile type connector (height: 2.7mm) for LED lighting, and achieves the space saving. The horizontal connection between PCBs enables and the mechanism of absorbing the PCB misalignment has been installed considering the parallel use for the connector. Fork type contact that has a high contact pressure (receptacle side) and enough mating stroke provide the stable contact performance even if the PCB expands and contracts due to heat.

- Absorption misalignment mechanism (only connector pitch direction)
- The PCB layout is in common with plug and receptacle connectors.
- Mechanism for preventing wrong insertion
- Crimp type socket that is mated with receptacle connector is available.

Specifications

<For board-to-board>

- Current rating: 3A AC, DC
- Voltage rating: 300V AC, DC
- Temperature range: -55°C to +105°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 20m Ω max.
After environmental testing/ 40m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,700V AC/minute

<For disconnectable crimp style>

- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 300V AC, DC
- Temperature range: -55°C to +105°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 20m Ω max.
After environmental testing/ 40m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,700V AC/minute
- Applicable wire: Conductor size/ AWG #26 to #22
Insulation O.D./ 0.95 to 1.3mm

* Compliant with RoHS.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

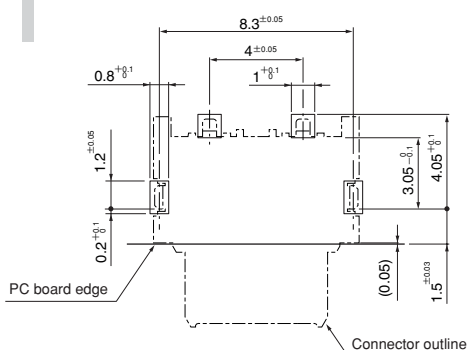
* Contact JST for details.

Standards

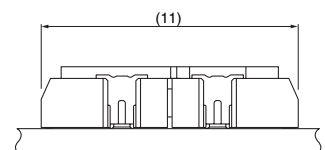
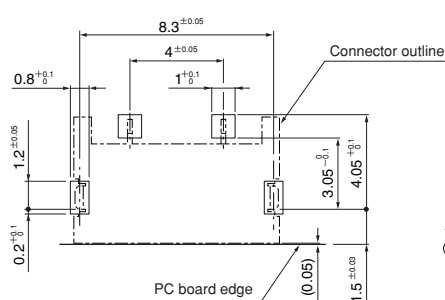
Recognized E60389

Certified LR20812

Plug



Receptacle



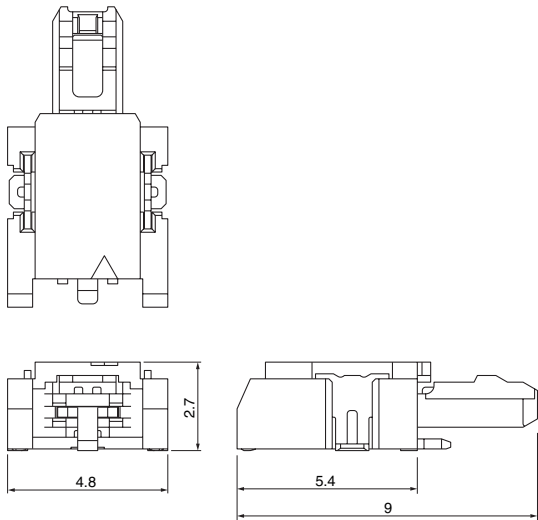
Note: 1. The above figure is the figure viewed from the connector mounting side.

2. Tolerances are non-cumulative: ± 0.05 mm for all centers. The dimensions above should serve as a guideline. Contact JST for details.

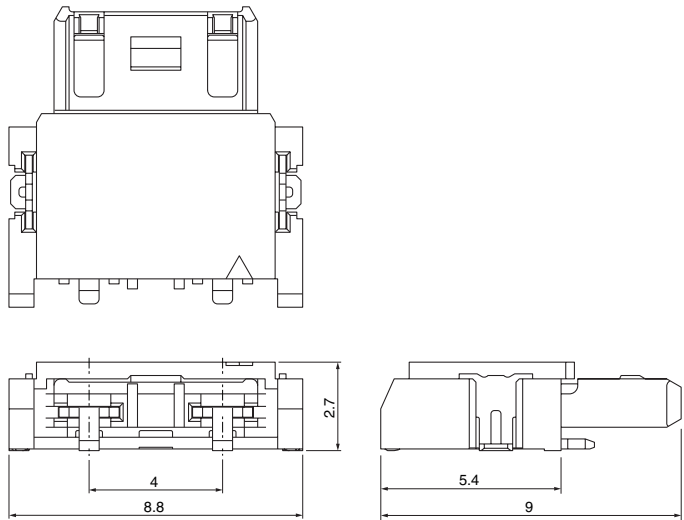
LEB CONNECTOR

Plug

<Single circuit>



<2 circuits>



Circuits	Model No.	Q'ty / reel
1	01P-LEBSS-TF	2,000
2	02P-LEBSS-TF	2,000

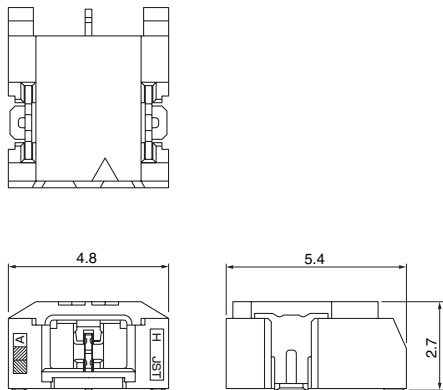
Material and Finish

Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Housing: PA 9T, UL94V-0, white
Solder tab: Copper alloy, tin-plated (reflow treatment)

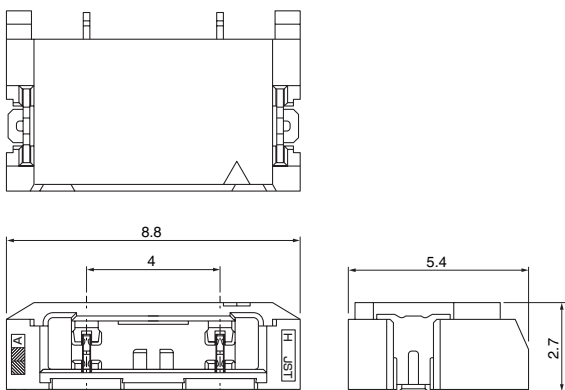
RoHS compliance This product displays (LF)(SN) on a label.
Note: The products listed above are supplied on embossed-tape.

Receptacle

<Single circuit>



<2 circuits>



Circuits	Model No.	Q'ty / reel
1	01R-LEBSS-TB	2,000
2	02R-LEBSS-TB	2,000

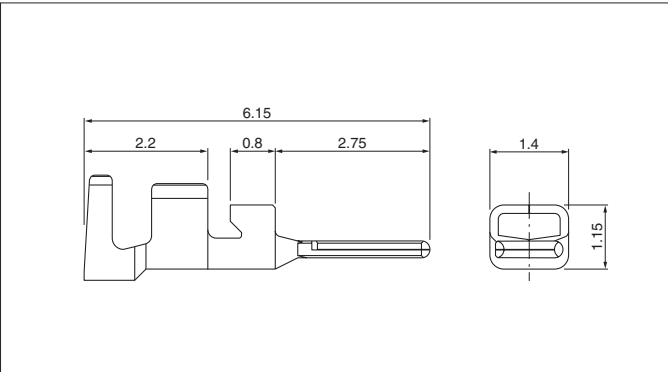
Material and Finish

Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Housing: PA 9T, UL94V-0, white
Solder tab: Copper alloy, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.
Note: The products listed above are supplied on embossed-tape.

LEB CONNECTOR

Contact



Model No.	Applicable wire			Q'ty / reel
	mm²	AWG#	Insulation O.D. (mm)	
SLEB-001T-P0.2	0.13~0.33	26~22	0.95~1.3	15,000

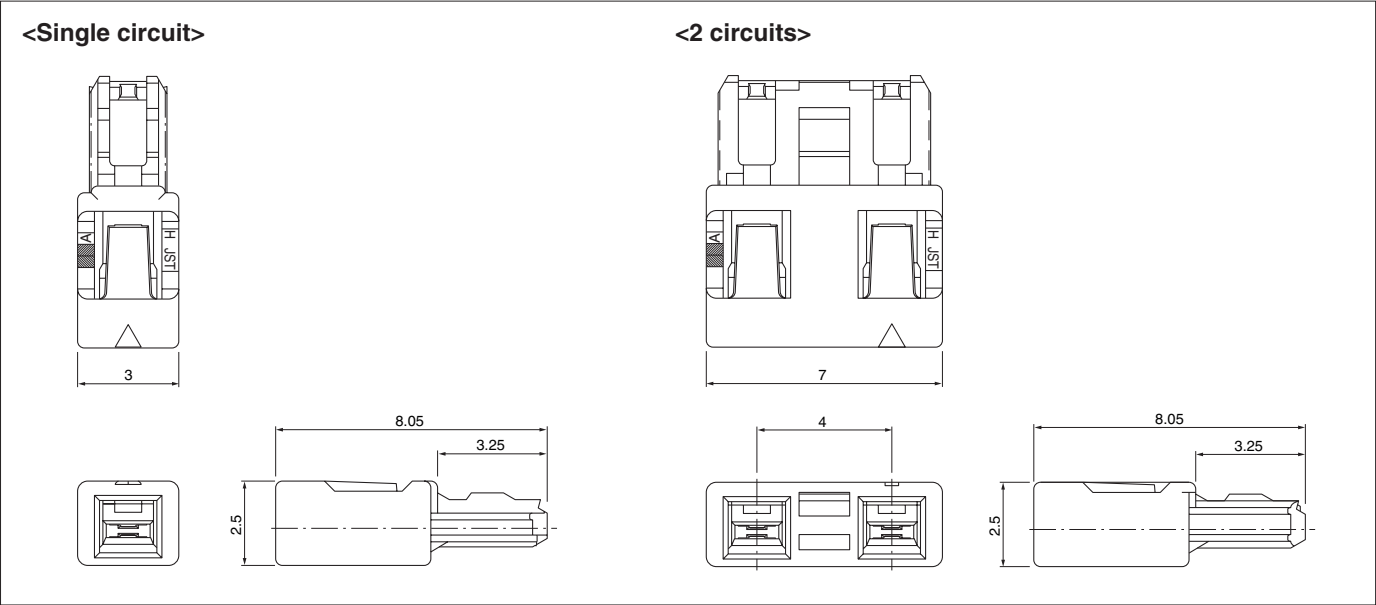
Material and Finish

Copper alloy, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SLEB-001T-P0.2	AP-K2N	MKS-L	MK/SLEB-001-02	APLMK SLEB001-02

Housing

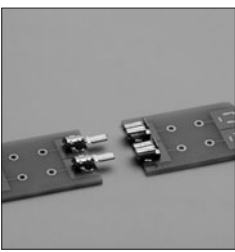


Circuits	Model No.	Q'ty / bag
1	LEBRP-01V-S	2,000
2	LEBRP-02V-S	2,000

Material

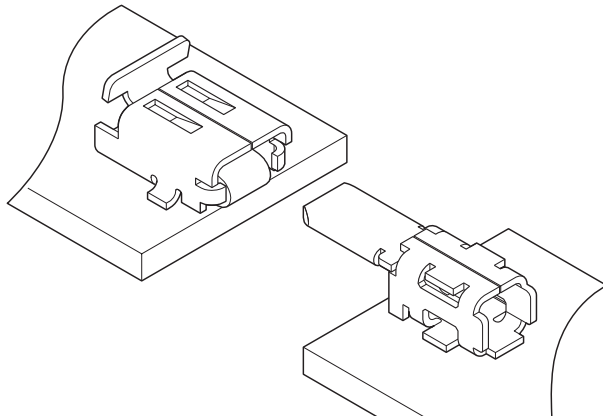
PBT, UL94V-0, natural

RoHS compliance



LEK CONNECTOR

Board-to-board connectors



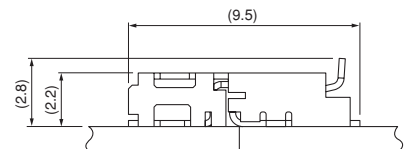
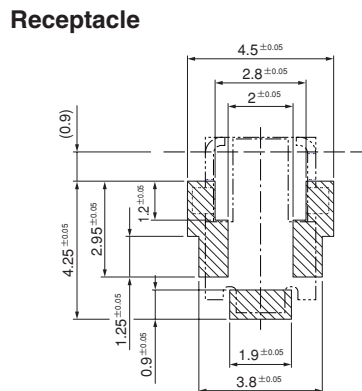
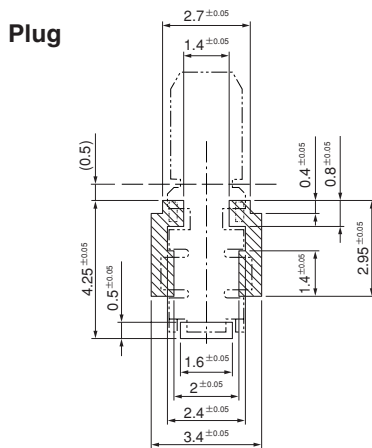
This LEK connector is board-to-board connector that does not use the housing and has a positive lock. This enables to absorb misalignment when mating connector.

- **Secure locking structure**
- **Absorbing misalignment**

Specifications

- Current rating: 3 A AC, DC
- Temperature range: -55°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 20 mΩ max.
After environmental testing/ 30 mΩ max.

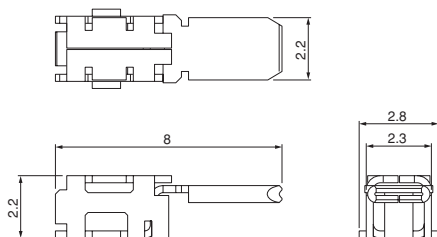
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Compliant with RoHS.



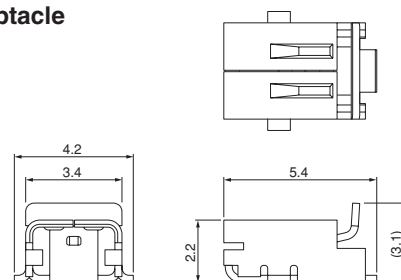
Note: 1. The above figure is the figure viewed from the connector mounting side.
2. Tolerances are non-cumulative: ±0.05mm for all centers.
3. The dimensions above should serve as a guideline. Contact JST for details.

Connector

Plug



Receptacle

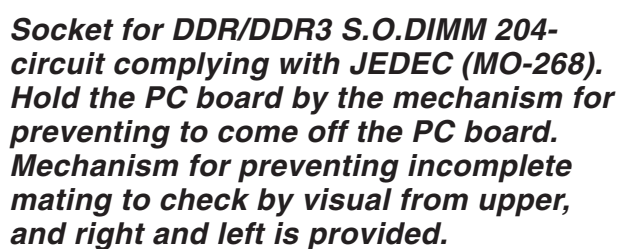


Model No.	Q'ty / reel
LEK-01PS-2RPT	4,500
Material and Finish	
Phosphor bronze, tin-plated	

Model No.	Q'ty / reel
LEK-01RS-2RPT	3,500
Material and Finish	
Phosphor bronze, tin-plated	

RoHS compliance

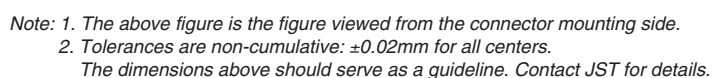
RoHS compliance



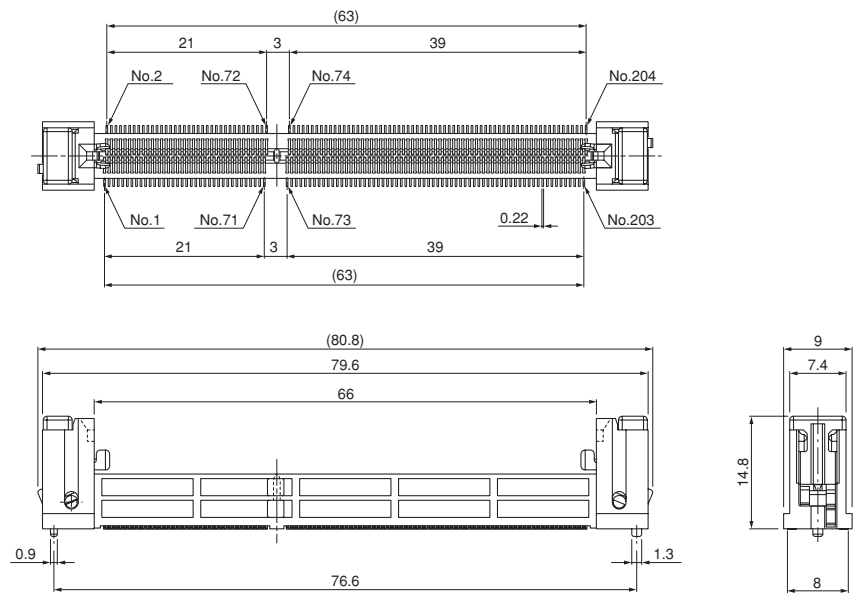
- **Mechanism for preventing to come off the PC board**
- **Mechanism for preventing incomplete mating**
- **Complying with JEDEC (MO-268)**

- Current rating: 0.3 A AC, DC
- Voltage rating: 25 V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Insulation resistance: 250 MΩ min.
- Withstanding voltage: 250 VAC/minute

- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Compliant with RoHS.



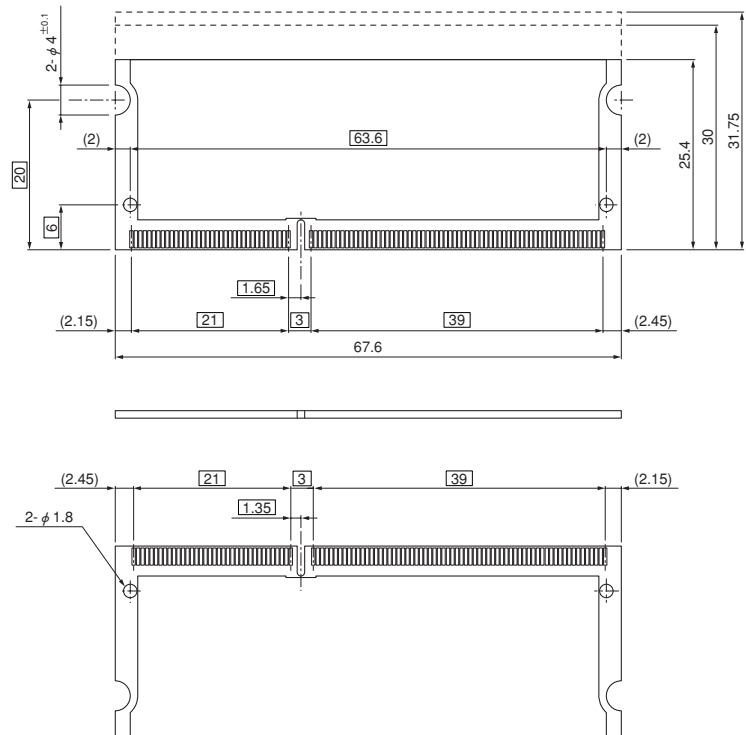
Connector



Model No.	Material and Finish	Q'ty / box
DM-204SB-K2330-E	Contact: Copper alloy, nickel-undercoated, gold-plated Socket housing: Heat resisting resin, UL94V-0, black Rotation guide housing: Heat resisting resin, UL94V-0, natural Retention guide housing: Heat resisting resin, UL94V-0, blue	210

RoHS compliance

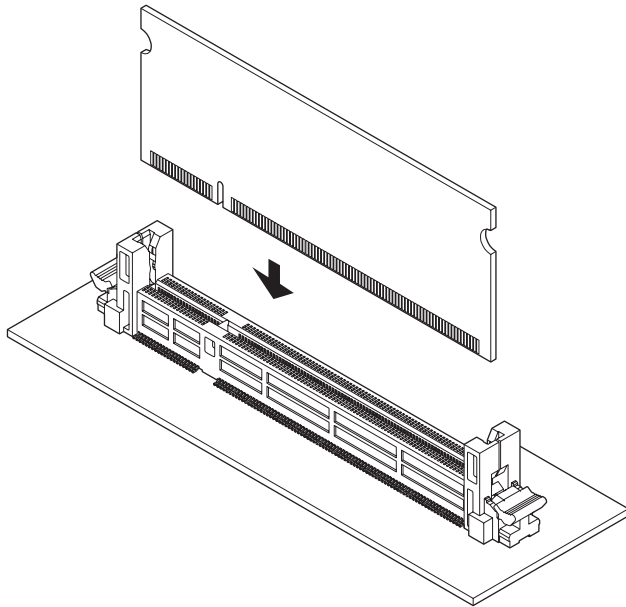
Applicable module PC board





DM-200P CONNECTOR

0.6mm pitch/Socket for DDR/DDR2 S.O.DIMM



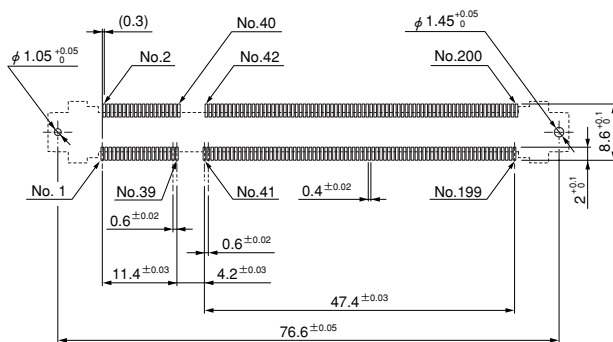
Socket for DDR/DDR2 S.O.DIMM 200 circuits complying with JEDEC(MO-224).

- Easy module inserting/ejecting
- 14.0mm height
- Socket for each S.O.DIMM of DDR/DDR2 is prepared.

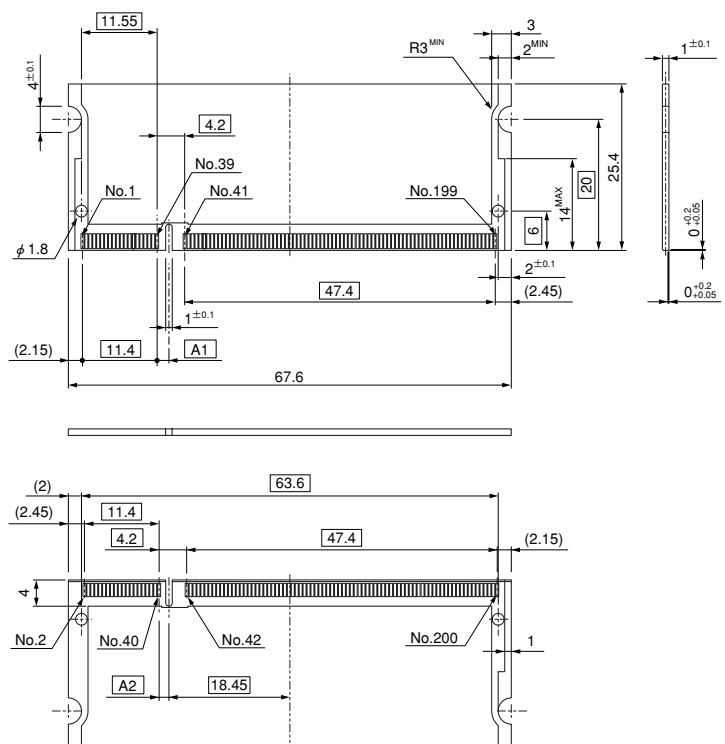
Specifications

- Current rating: 0.3A AC, DC
- Voltage rating: 25V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Insulation resistance: 125M Ω min.
- Withstanding voltage: 125V AC/minute
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

PC board layout (Common)



Applicable PC board layout (Reference)



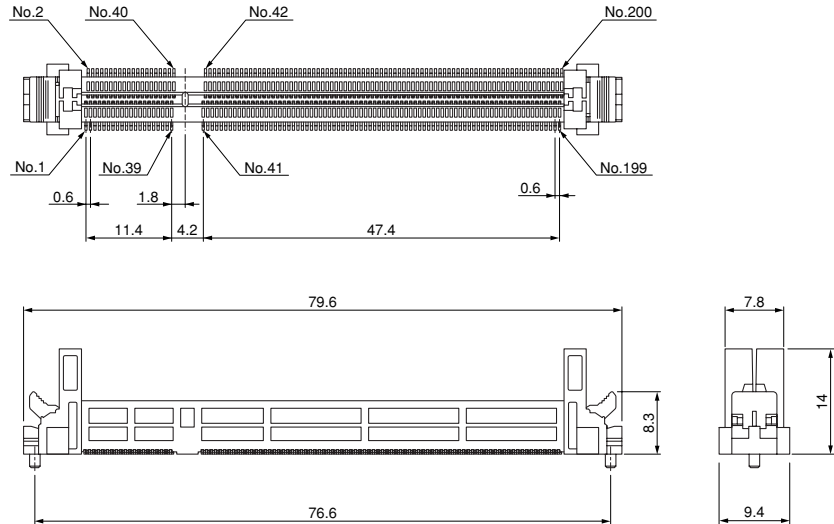
Note: The dimensions above should serve as a guideline.
Contact JST for details.

Applicable DIMM	A1	A2
Complying with JEDEC (MO224) DDR SDRAM S.O.DIMM 200P (2.5V)	1.8	1.5
Complying with JEDEC (MO224) DDR2 SDRAM S.O.DIMM 200P (1.8V)	2.7	2.4

DM-200P CONNECTOR

Connector

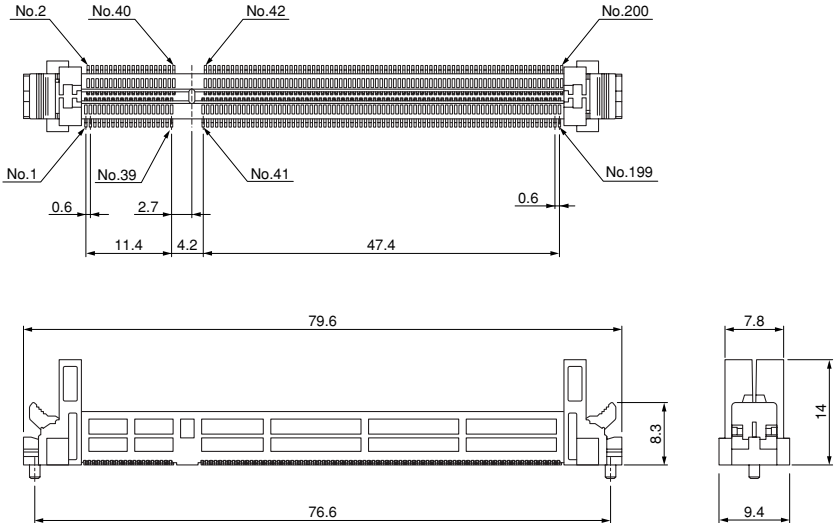
For DDR
(Operating voltage 2.5V)



Model No.	Material and Finish	Q'ty / box
DM-6D4-B2400	Contact: Copper alloy, nickel-undercoated, gold-plated Housing: Heat resisting resin, UL94V-0, black Ejector: Heat resisting resin, UL94V-0, blue	224

RoHS compliance

For DDR2
(Operating voltage 1.8V)



Model No.	Material and Finish	Q'ty / box
DM-7D4-H2400	Contact: Copper alloy, nickel-undercoated, gold-plated Housing: Heat resisting resin, UL94V-0 Ejector: Heat resisting resin, UL94V-0	224

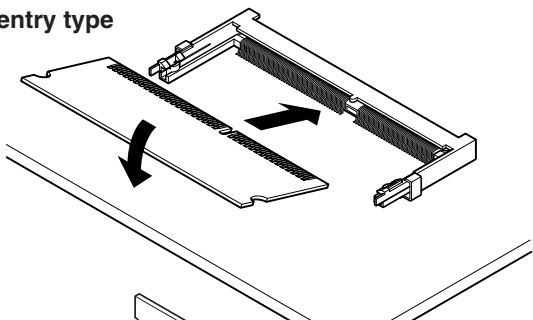
RoHS compliance



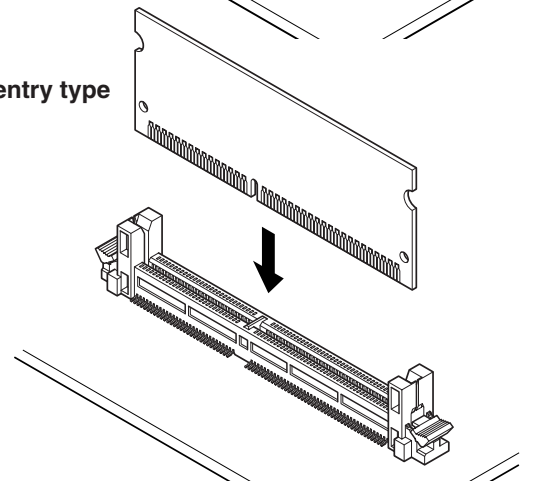
DM-144P CONNECTOR

0.8mm pitch/Socket for S.O.DIMM

Side entry type



Top entry type



Sockets for the 8Byte S.O.DIMM which is standardized by the JEDEC.

- Extremely small space for mounting on the board

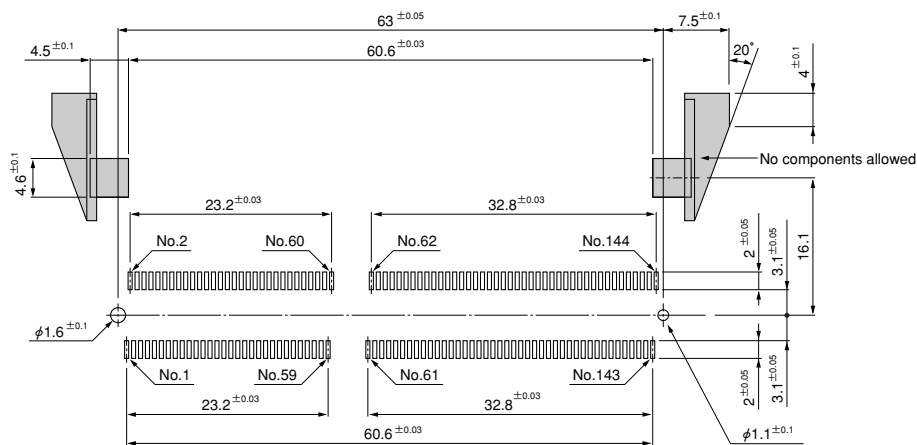
Specifications

- Current rating: 0.5A AC, DC
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/30m Ω max.
After environmental testing/50m Ω max.
- Insulation resistance: 250M Ω min.
- Withstanding voltage: 250V AC/minute
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

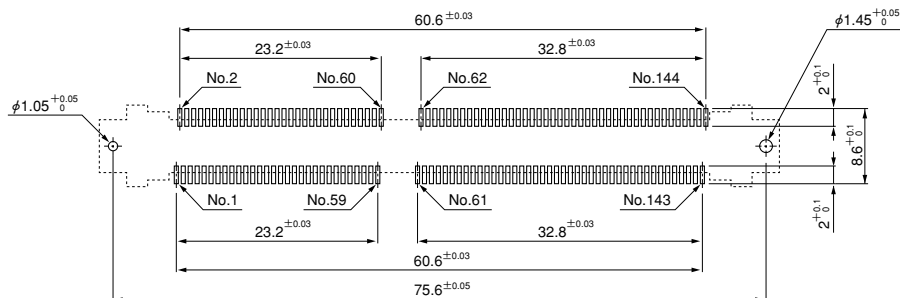
Standards

Recognized E60389

Side entry type



Top entry type

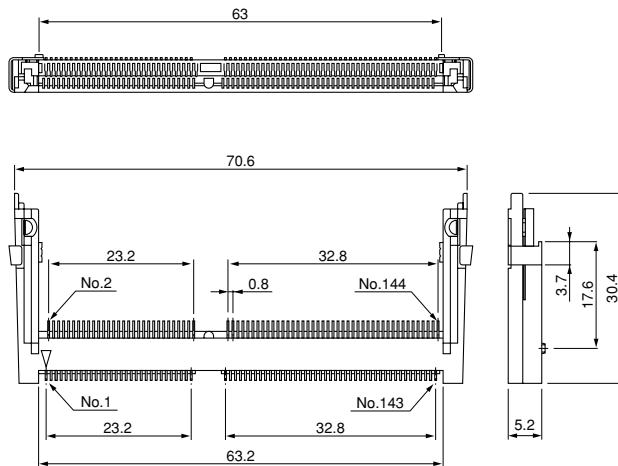


Note: 1. The above figure is the figure viewed from the connector mounting side.
2. Tolerances are non-cumulative: ±0.03mm for all centers.
3. The dimensions above should serve as a guideline. Contact JST for details.

DM-144P CONNECTOR

Connector

Side entry type



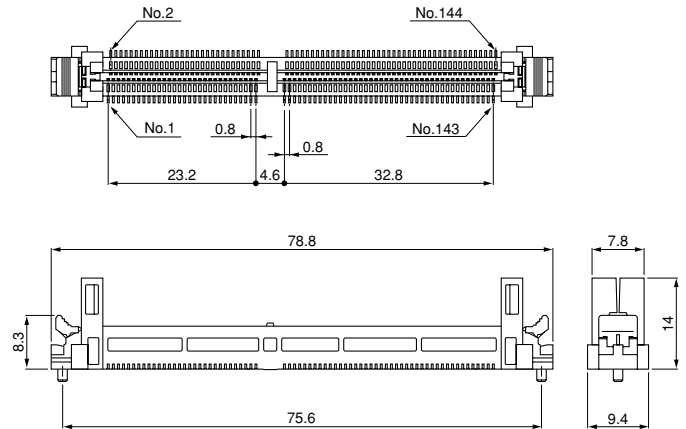
Model No.	Q'ty / box
DM-3B1-N1210	320

Material and Finish

Contact: Copper alloy, nickel-undercoated, Mating part; gold-plated
Solder tail; tin-plated (reflow treatment)
Housing: Heat resisting resin, UL94V-0
Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Top entry type



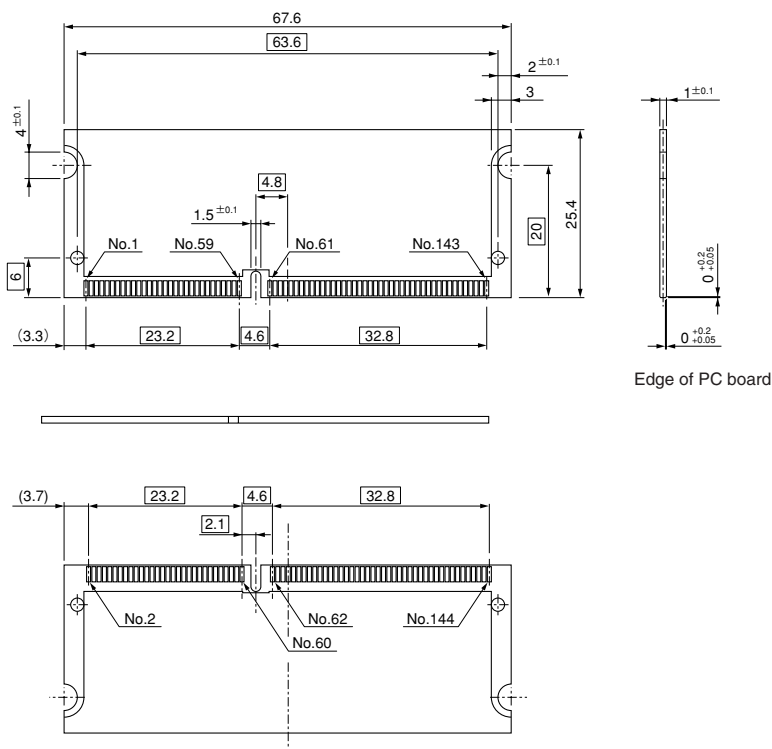
Model No.	Q'ty / box
DM-3D4-B3200	224

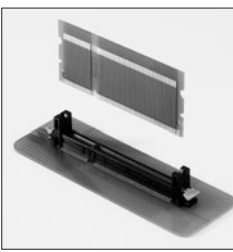
Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated
Housing: Heat resisting resin, UL94V-0
Ejector: Heat resisting resin, UL94V-0

RoHS compliance

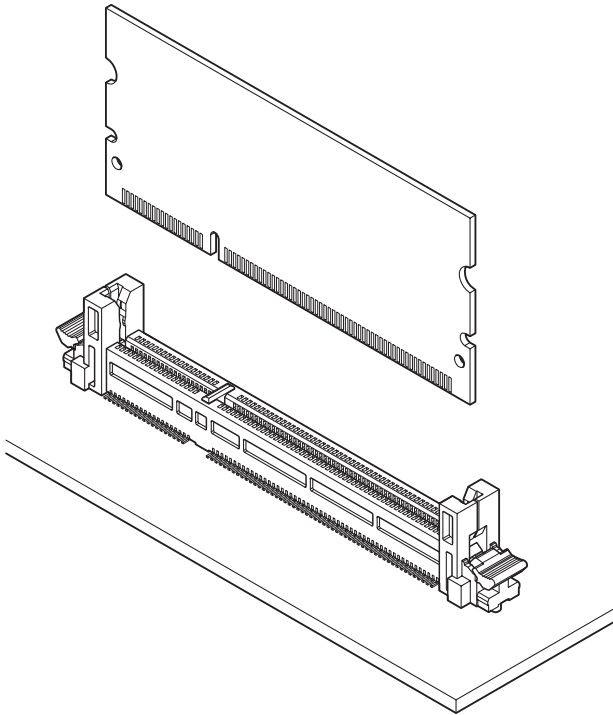
Applicable PC board layout (for reference)





DM-144P CONNECTOR

0.8mm pitch/Socket for DDR2 S.O.DIMM Corresponding to 32 bits

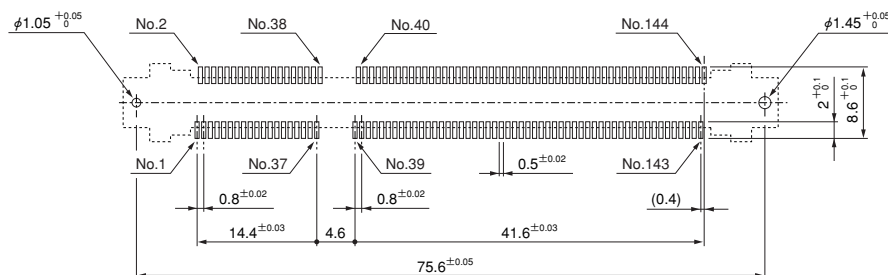


**Socket for DDR2 S.O.DIMM 144-circuit
complying with JEDEC (MO-274).
Corresponding to the data transmission
bandwidth of 32 bits.**

- **Easy module inserting/ejecting**
- **Low profile of 14.0mm height**

Specifications

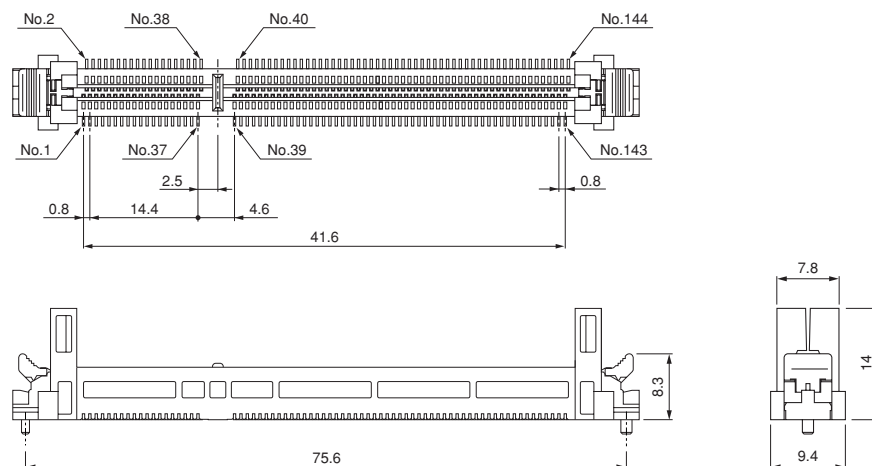
- Current rating: 0.5A AC, DC
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/30m Ω max.
After environmental testing/50m Ω max.
- Insulation resistance: 250M Ω min.
- Withstanding voltage: 250V AC/minute
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.



Note: 1. The above figure is the figure viewed from the connector mounting side.
2. Tolerances are non-cumulative: ± 0.02 mm for all centers.
3. The dimensions above should serve as a guideline. Contact JST for details.

DM-144P CONNECTOR/32 bits

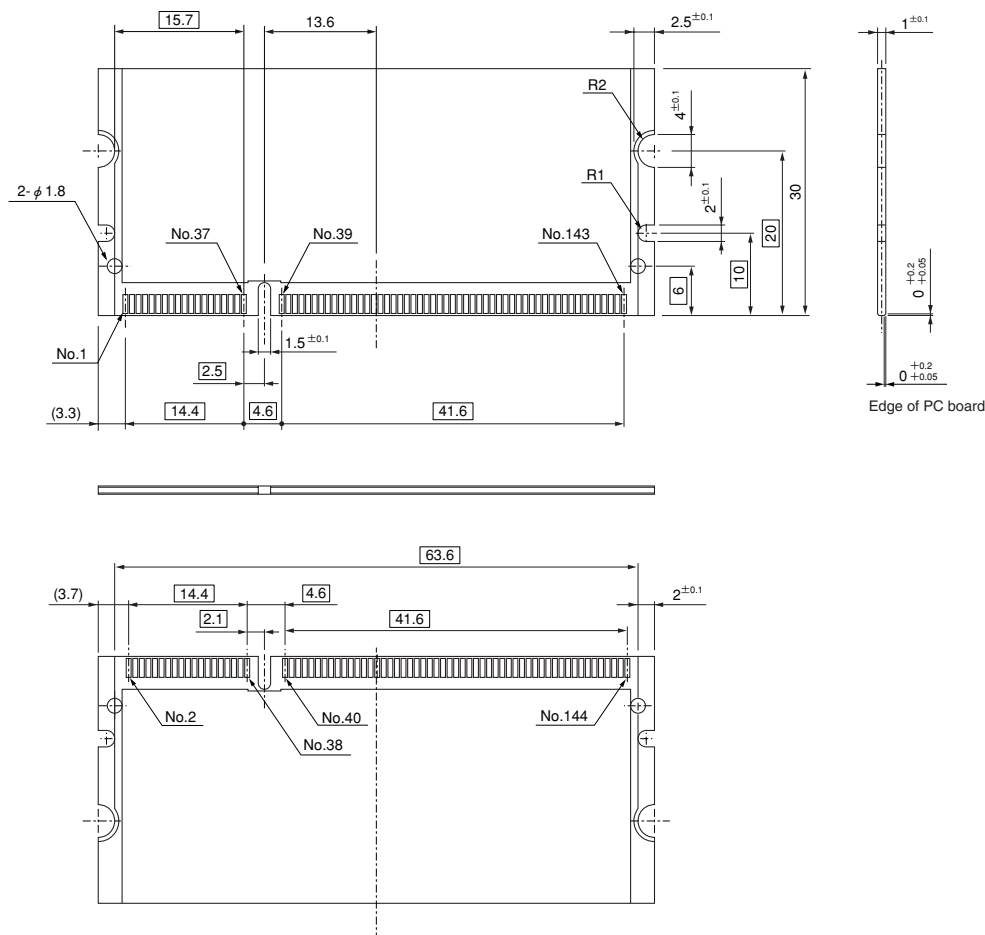
Connector

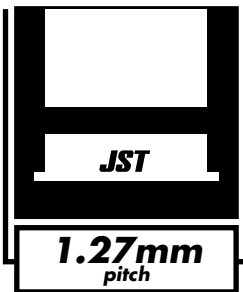


Model No.	Material and Finish	Q'ty / box
DM-5D7-B3200	Contact: Copper alloy, nickel-undercoated, gold-plated Housing: Heat resisting resin, UL94V-0, black Ejector: Heat resisting resin, UL94V-0, green	224

RoHS compliance

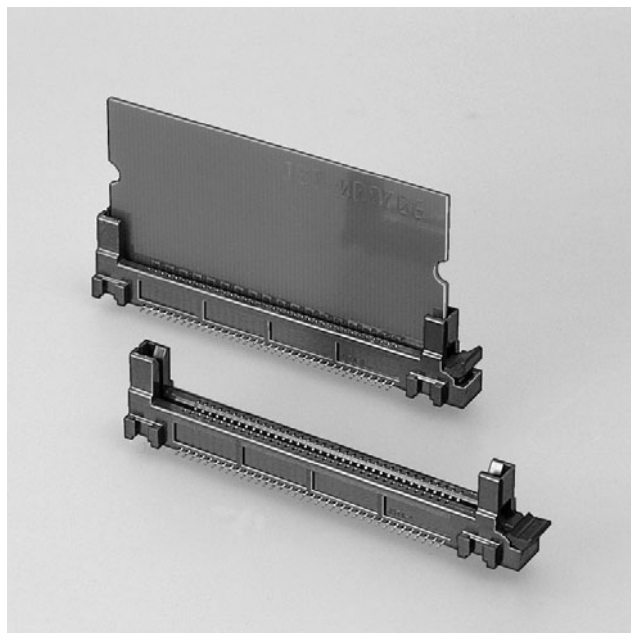
Applicable PC board layout (for reference)



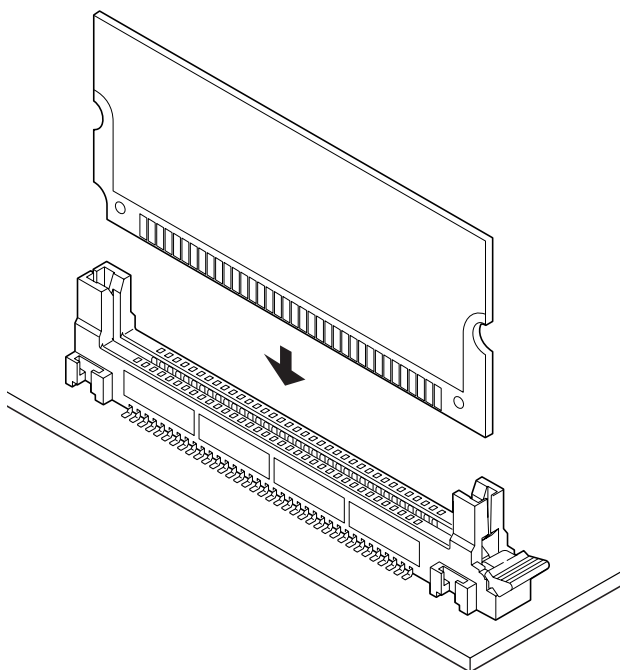


DM-72P CONNECTOR

Socket for DIMM



Standardized by the JEDEC (MO-160).
The DM connector is the straight type of the DIMM socket, applicable to the module PC board whose operating voltage is 3.3V.



Features

- **Easy module ejecting**

The module can be disengaged easily by using the eject button.

- **14mm height**

With its 14mm height, the DM connector is applicable to various equipment.

Specifications

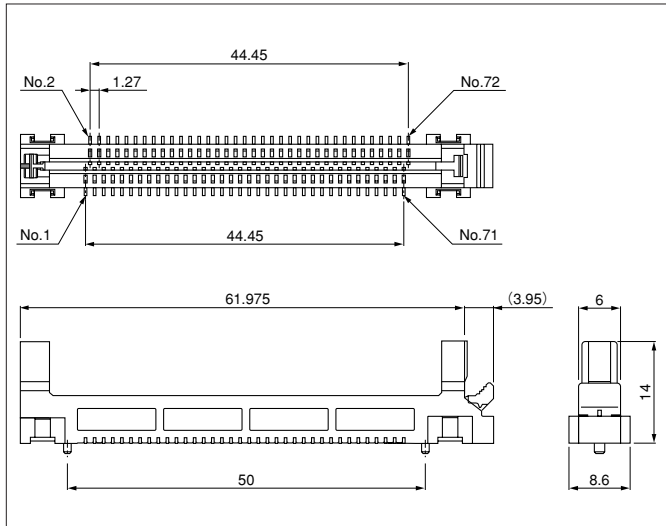
- Current rating: 0.5A AC, DC
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Insulation resistance: 250M Ω min.
- Withstanding voltage: 250V AC/minute
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

 Recognized E60389

DM-72P CONNECTOR

Connector



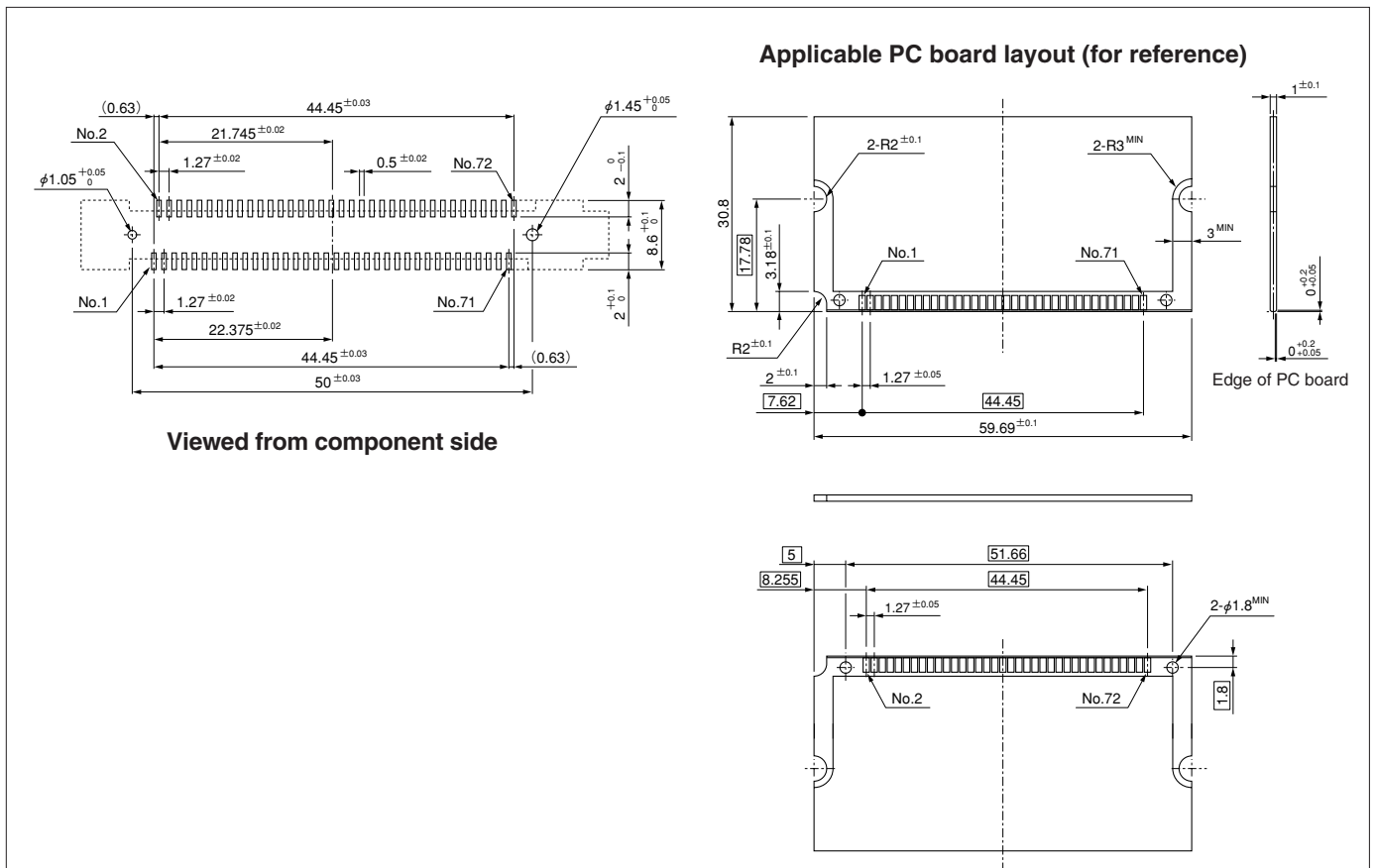
Model No.	Q'ty / box
DM-2D4-N3200	224

Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated
Housing: Heat resisting resin, UL94V-0
Ejector: Heat resisting resin, UL94V-0

RoHS compliance

PC board layout

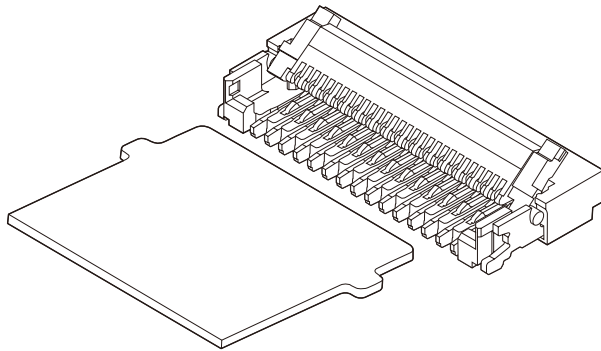


Note: 1. Tolerances are non-cumulative: ± 0.02 mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.



FVX CONNECTOR

0.2mm pitch/Connectors for FPC



0.2mm pitch FVX connector for FPC has been developed for small portable equipment for which low profile and miniaturization are required. By using FPC with protrusions, the positioning accuracy of FPC is improved.

Specifications

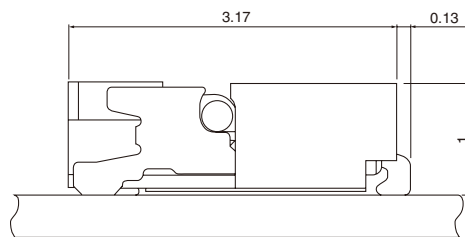
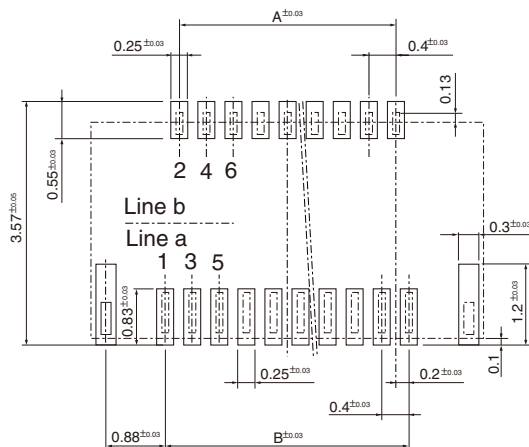
- Current rating: 0.2A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/60mΩ max.
After environmental testing/60mΩ max.
(variation from initial value)
- Insulation resistance: 50MΩ min.
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/0.2mm
<0.4mm pitch staggered>
Conductor width/0.2mm
Mating part thickness/0.2±0.03mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

Recognized E 60389

Certified LR 20812

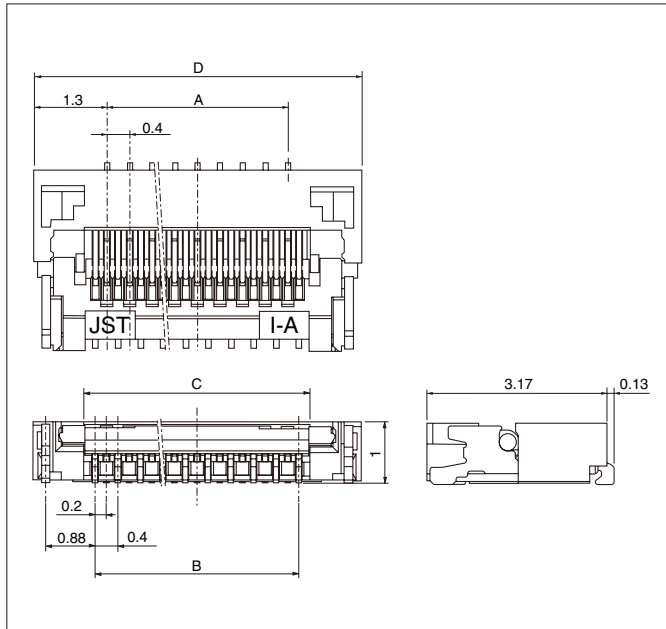
PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ±0.03mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

FVX CONNECTOR

Connector



Circuits	Model No.	A	B	C	D	Q'ty / reel
21	21FVX-RSM1-GAN-ETF(S)	3.6	4.0	4.4	6.2	5,000
25	25FVX-RSM1-GAN-ETF(S)	4.4	4.8	5.2	7.0	5,000
29	29FVX-RSM1-GAN-ETF(S)	5.2	5.6	6.0	7.8	5,000
35	35FVX-RSM1-GAN-ETF(S)	6.4	6.8	7.2	9.0	5,000
41	41FVX-RSM1-GAN-ETF(S)	7.6	8.0	8.4	10.2	5,000
51	51FVX-RSM1-GAN-ETF(S)	9.6	10.0	10.4	12.2	5,000
55	55FVX-RSM1-GAN-ETF(S)	10.4	10.8	11.2	13.0	5,000
59	59FVX-RSM1-GAN-ETF(S)	11.2	11.6	12.0	13.8	5,000
63	63FVX-RSM1-GAN-ETF(S)	12.0	12.4	12.8	14.6	5,000
71	71FVX-RSM1-GAN-ETF(S)	13.6	14.0	14.4	16.2	5,000
77	77FVX-RSM1-GAN-ETF(S)	14.8	15.2	15.6	17.4	5,000

Material and Finish

Socket housing: Heat resisting resin, UL94V-0

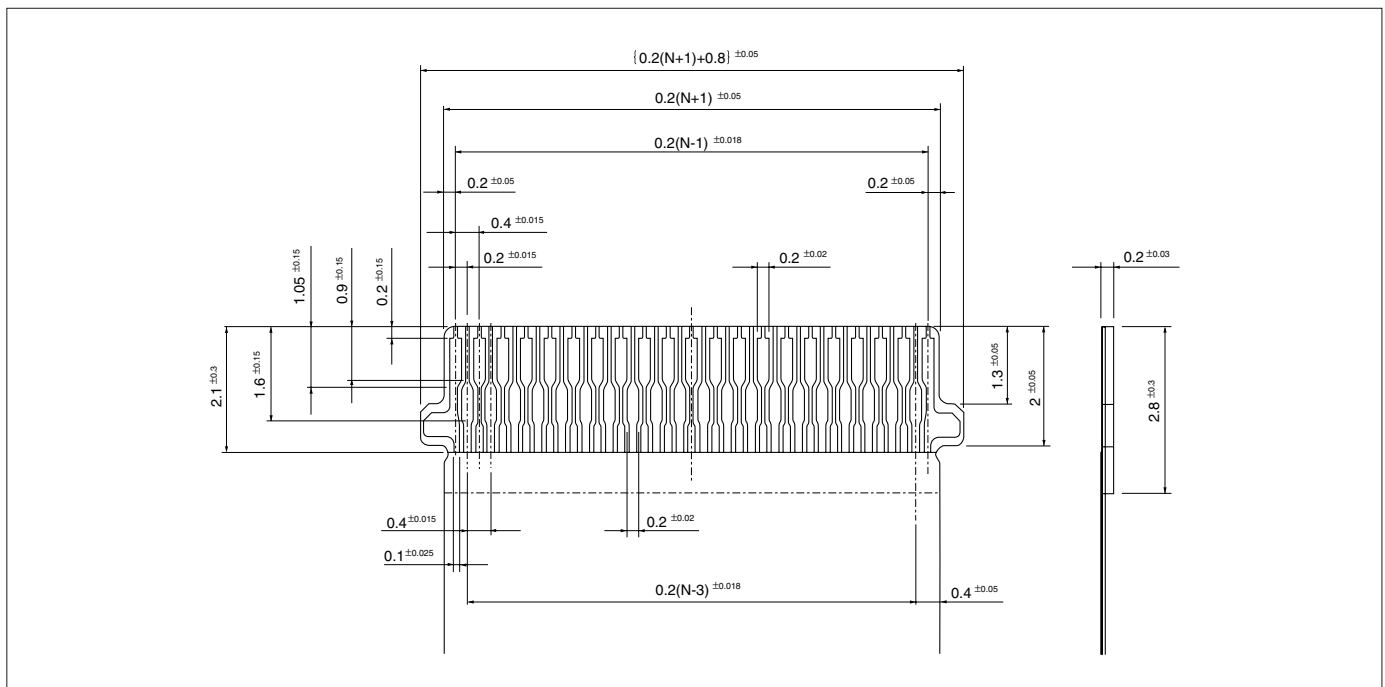
Cover housing: Heat resisting resin, UL94V-0

Contact: Copper alloy, nickel-undercoated, gold-plated (nickel-stripe)

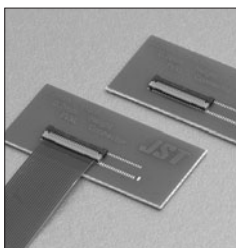
Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN)(S) on a label.

Lead section dimensions of FPC

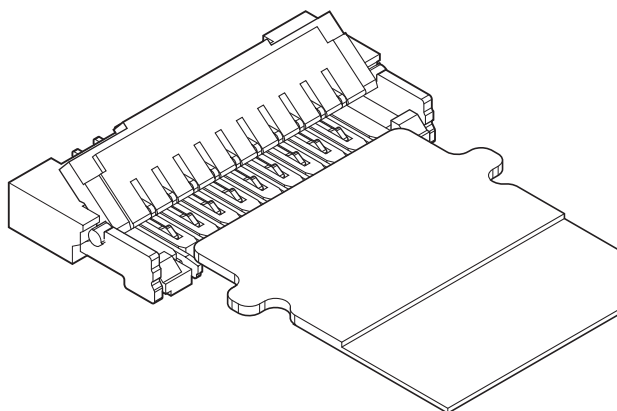


Note: N --- Number of circuits



FVXL CONNECTOR

0.2mm pitch/Connectors for FPC



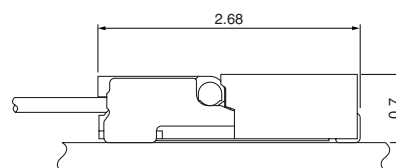
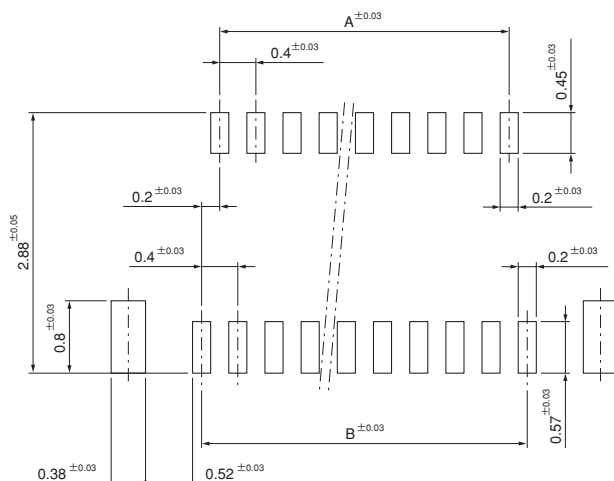
This FVXL connector is a space saving and low profile connector for FPC demanded from the market, and realizes 0.2mm pitch connector with a mounting height of 0.7mm and depth of 2.68mm. In FPC connector, the smallest product has been provided.

- Double ZIF construction provides easy insertion operation of FPC
- By adopting self locking mechanism, a cover can close with one touch operation.
- By adopting a FPC with protrusions, prevent incomplete insertion or mis-insertion after insertion.

Specifications

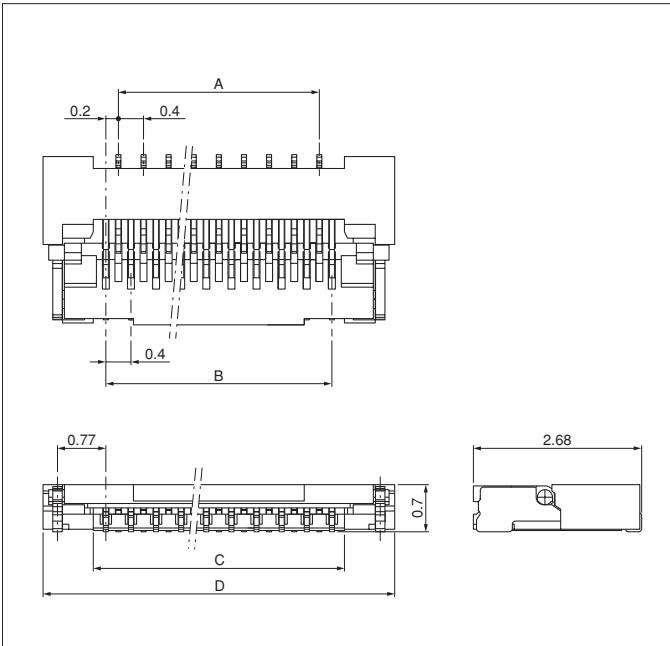
- Current rating: 0.2 A AC, DC
- Voltage rating: 50 V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 100 mΩ max.
After environmental tests/ 100 mΩ max.
(variation from initial value)
- Insulation resistance: 50 MΩ min.
- Withstanding voltage: Initial value; 200 VAC/minute
After humidity test; 100 VAC/minute
- Applicable FPC: Conductor pitch/ 0.2 mm
Conductor width/ 0.2 mm
Mating part thickness/ 0.15±0.03 mm

- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Compliant with RoHS.



FVXL CONNECTOR

Housing



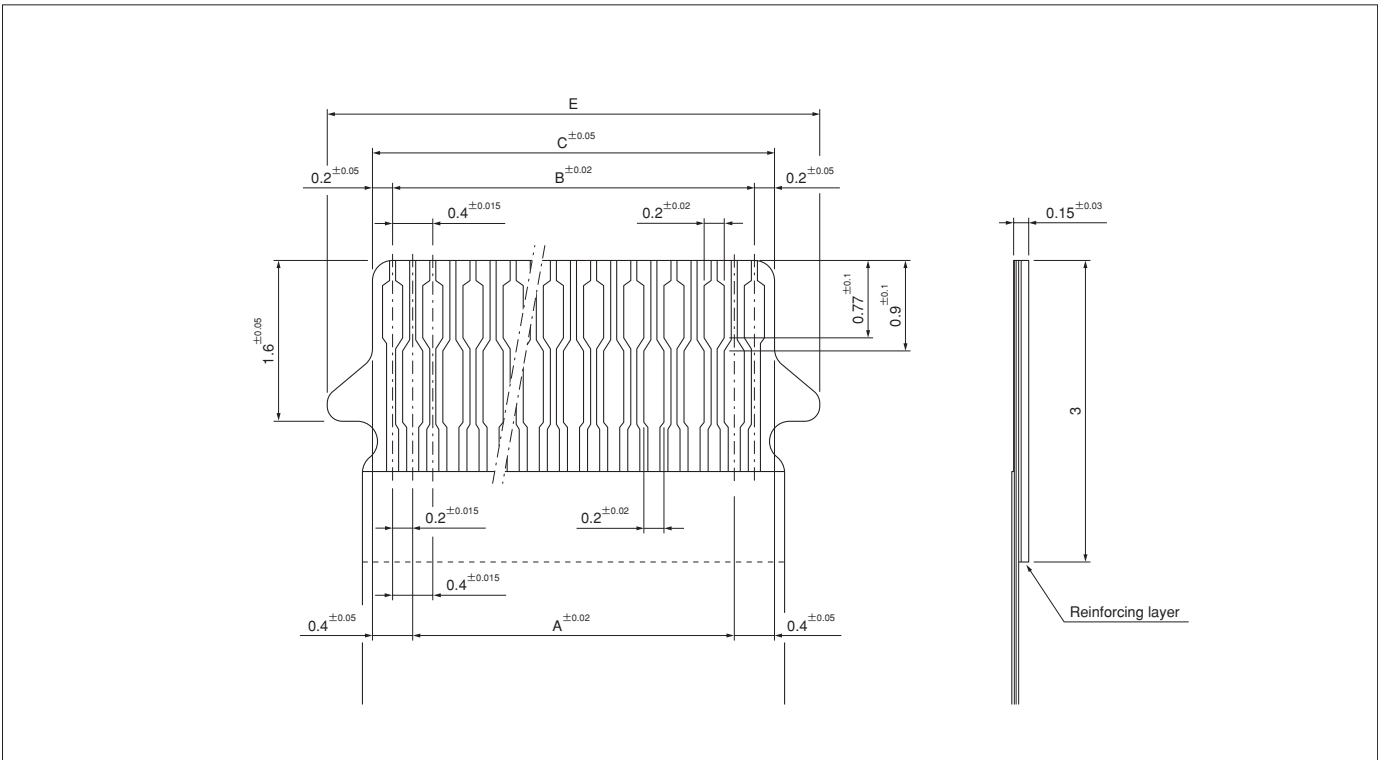
Circuits	Model No.	Dimensions (mm)					Q'ty / reel
		A	B	C	D	E	
45	45FVXL-RSM1-GAN-ETF(HF)	8.4	8.8	9.2	10.8	10.1	6,000
51	51FVXL-RSM1-GAN-ETF(HF)	9.6	10.0	10.4	12.0	11.3	6,000
71	71FVXL-RSM1-GAN-ETF(HF)	13.6	14.0	14.4	16.0	15.3	6,000

Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated
Socket housing: Heat resisting resin, black
Cover housing: Heat resisting resin, gray
Reinforcement: Copper alloy, tin-plated

RoHS compliance This product displays (HF) on a label.
Note: This products listed above are supplied on embossed-tape.

Lead section dimensions of FPC

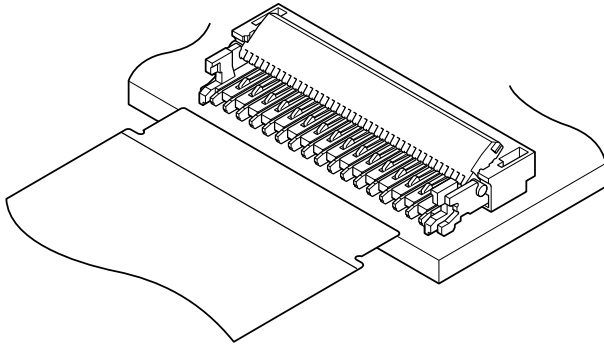




FVXS CONNECTOR



0.2mm pitch/Connectors for FPC



0.2mm pitch FVXS connector for FPC has been developed for small portable equipment for which low profile and miniaturization are required.

Positioning of FPC is easily conducted by inserting FPC into connector until its shoulder touches to the transverse U-shape groove.

This connector also has the structure that tension due to handling of FPC is absorbed by socket and reinforcing tab.

Specifications

- Current rating: 0.2A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/60mΩ max.
After environmental testing/60mΩ max.
(variation from initial value)
- Insulation resistance: 50MΩ min.
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/0.2mm
<0.4mm pitch staggered>
Conductor width/0.2mm
Mating part thickness/0.2±0.03mm

* Compliant with RoHS.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

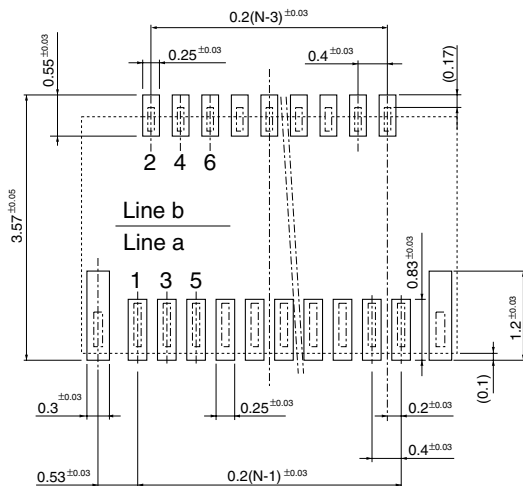
* Contact JST for details.

Standards

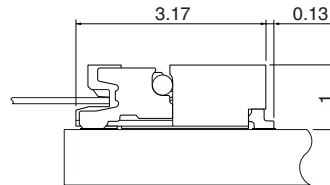
Ⓜ Recognized E 60389

Ⓢ Certified LR 20812

PC board layout and Assembly layout

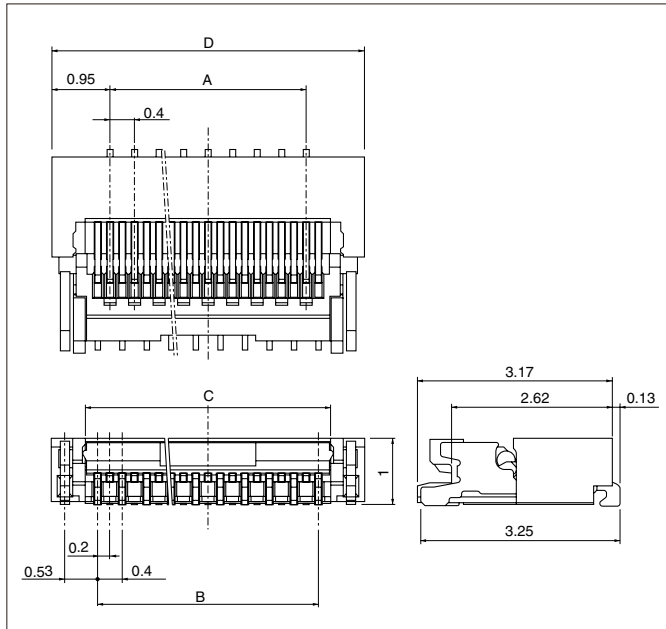


Note: N --- Number of circuits



FVXS CONNECTOR

Connector



Circuits	Model No.	Dimensions (mm)				Q'ty / reel
		A	B	C	D	
51	51FVXS-RSM1-GAN-TF	9.6	10.0	10.4	11.5	5,000

Material and Finish

Socket housing: Heat resisting resin, UL94V-0

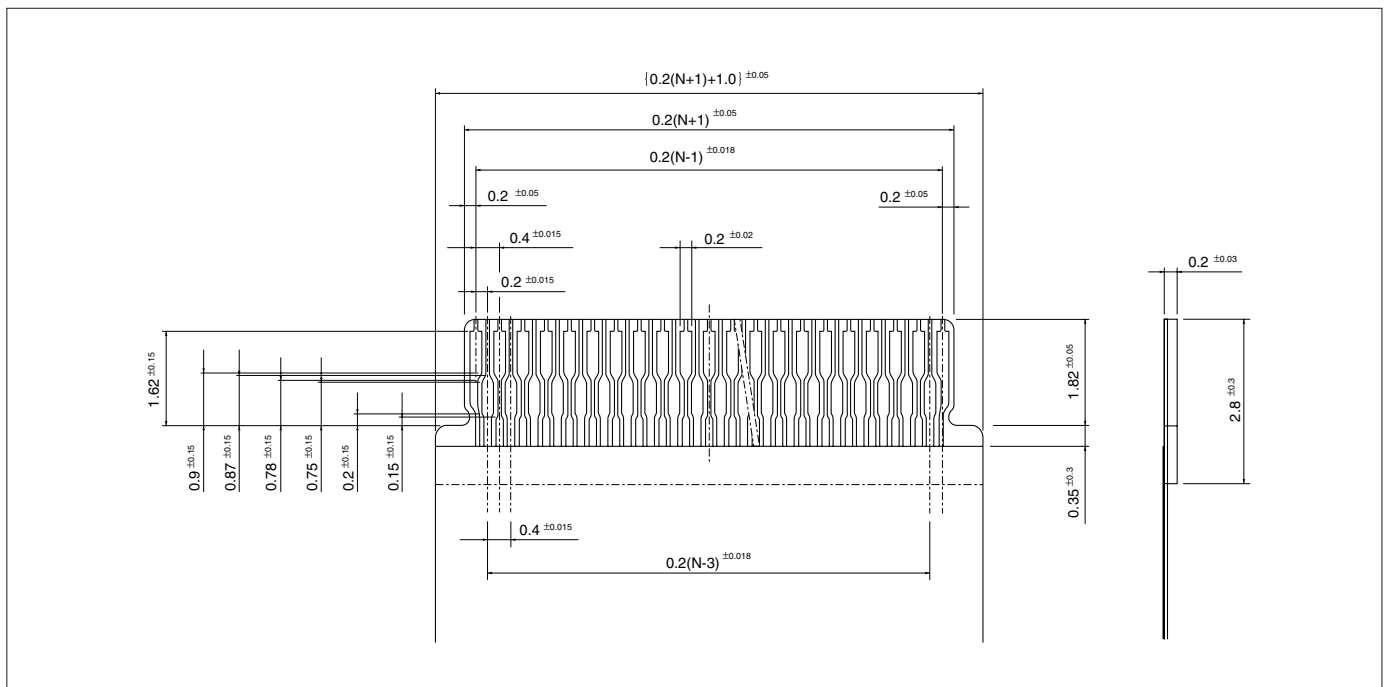
Cover housing: Heat resisting resin, UL94V-0

Contact: Copper alloy, nickel-undercoated, gold-plated (nickel-stripe)

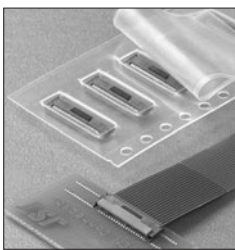
Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Lead section dimensions of FPC

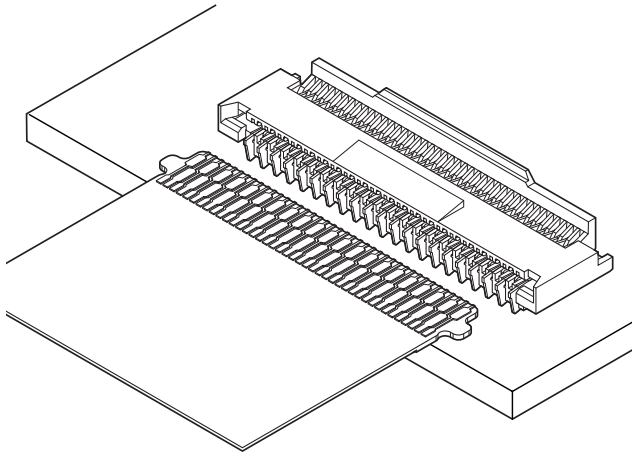


Note: N --- Number of circuits



FGEM CONNECTOR

0.25mm pitch/Connectors for FPC

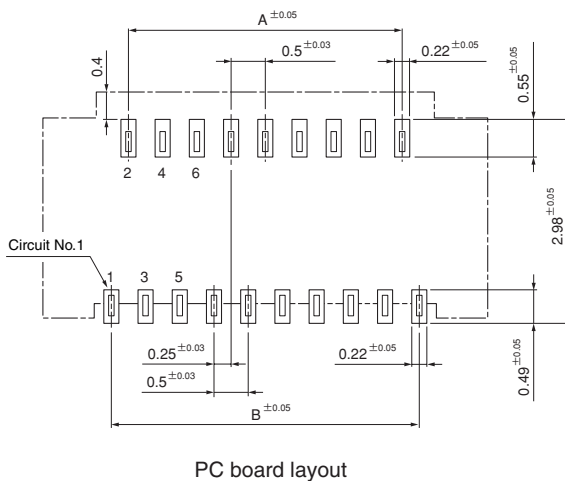


This FGEM connector is the first mid-flip type 0.25mm pitch connector for FPC in the connector industry. Internal structure of connector is the double-sided contact to which structure of back-flip type is succeeded, and the space saving which is advantage of front-flip type connector is enabled because the mid-flip structure by which the actuator tilts forward is adopted. Moreover, by adding the tilt type, PC insertion workability improved and located parts to near the connector, and high-density mounting was enabled.

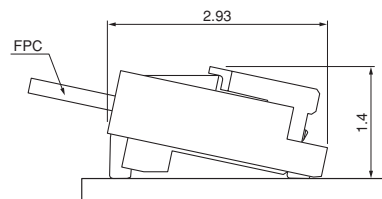
- **FPC with protrusion**
- **Double-sided contact**
- **Tilt type**

Specifications

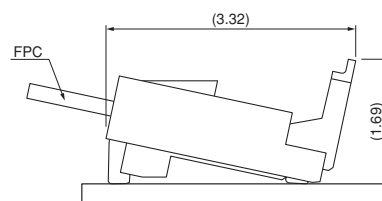
- Current rating: 0.2A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 100mΩ max.
After environmental testing/ 100mΩ max.
(variation from initial value)
- Insulation resistance: 50MΩ min.
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/ 0.25mm
Conductor width/ 0.27mm
Mating part thickness/ 0.2±0.03mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.



PC board layout



Actuator close

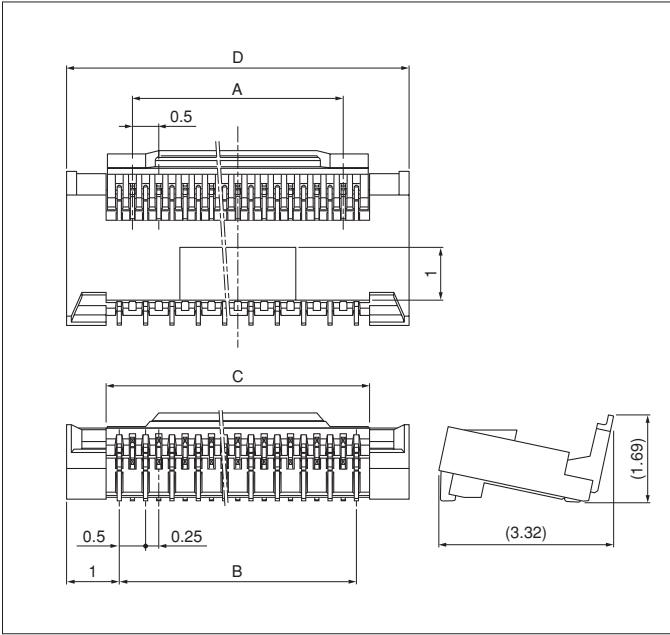


Actuator open

Note: 1. The above figure is the figure viewed from the connector mounting side.
2. Tolerances are non-cumulative: ±0.05mm for all centers.
The dimensions above should serve as a guideline. Contact JST for details.

FGEM CONNECTOR

Connector



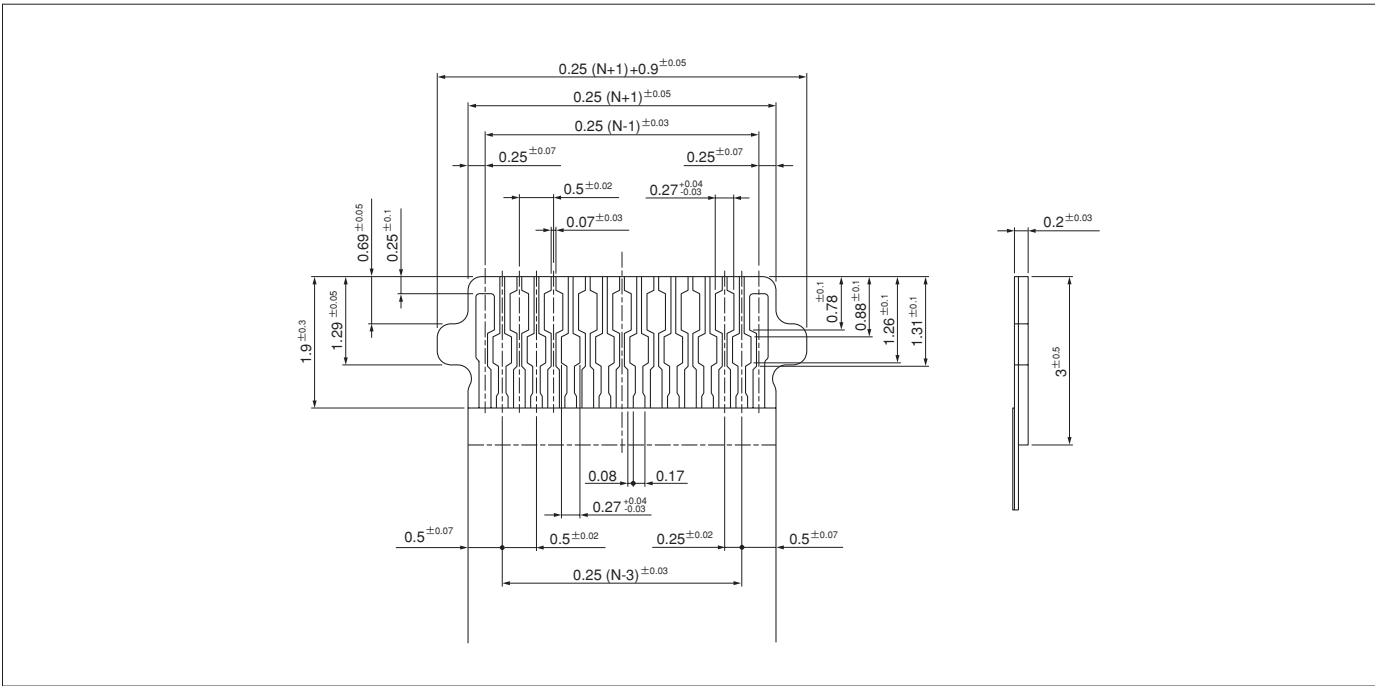
Circuits	Model No.	Dimensions (mm)				Q'ty / reel
		A	B	C	D	
17	17FGEM-SM1-GAN-T-TF	3.5	4.0	4.5	6.0	5,000
19	19FGEM-SM1-GAN-T-TF	4.0	4.5	5.0	6.5	5,000
23	23FGEM-SM1-GAN-T-TF	5.0	5.5	6.0	7.5	5,000
35	35FGEM-SM1-GAN-T-TF	8.0	8.5	9.0	10.5	5,000
39	39FGEM-SM1-GAN-T-TF	9.0	9.5	10.0	11.5	5,000
41	41FGEM-SM1-GAN-T-TF	9.5	10.0	10.5	12.0	5,000
45	45FGEM-SM1-GAN-T-TF	10.5	11.0	11.5	13.0	5,000
51	51FGEM-SM1-GAN-T-TF	12.0	12.5	13.0	14.5	5,000

Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated (nickel-stripe)
Housing: Heat resisting resin, UL94V-0, black
Actuator: Heat resisting resin, UL94VHB, brown

RoHS compliance This product displays (HF) on a label.
Note: This products listed above are supplied on embossed-tape.

Lead section dimensions of FPC

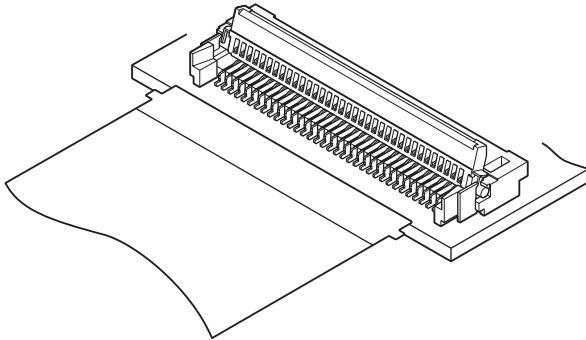


Note: N --- Number of circuits



FXM CONNECTOR

0.3mm pitch/Connectors for FPC



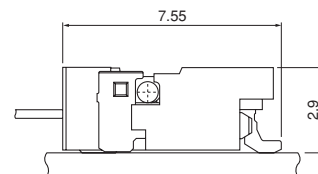
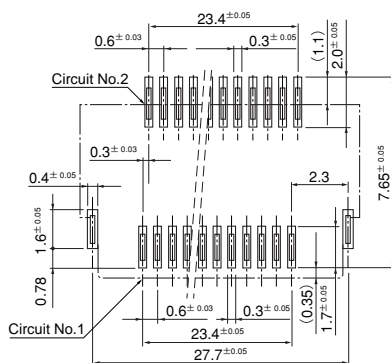
A substantial size for the 0.3mm pitch connector ensures easy handling. Moreover, since this connector accepts a FPC with protrusion providing secure as well as foolproof mating at the customers production line.

- **Double ZIF structure**
- **Self-lock mechanism enables the cover to close by one-touch operation**
- **A FPC with protrusion improves operability and reliability**

Specifications

- Current rating: 0.2A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/80m Ω max.
After environmental testing/50m Ω max.
(variation from initial value)
- Insulation resistance: 50M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/0.3mm
<0.6mm pitch staggered>
Conductor width/0.3mm
Mating part thickness/0.3±0.05mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

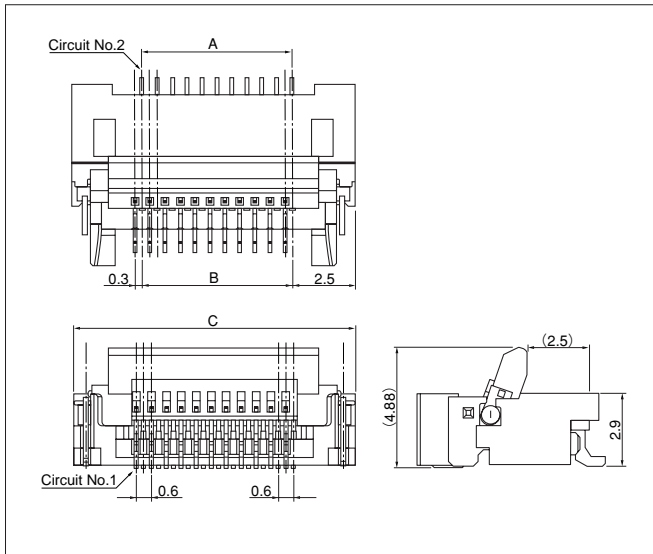
PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

FXM CONNECTOR

Connector



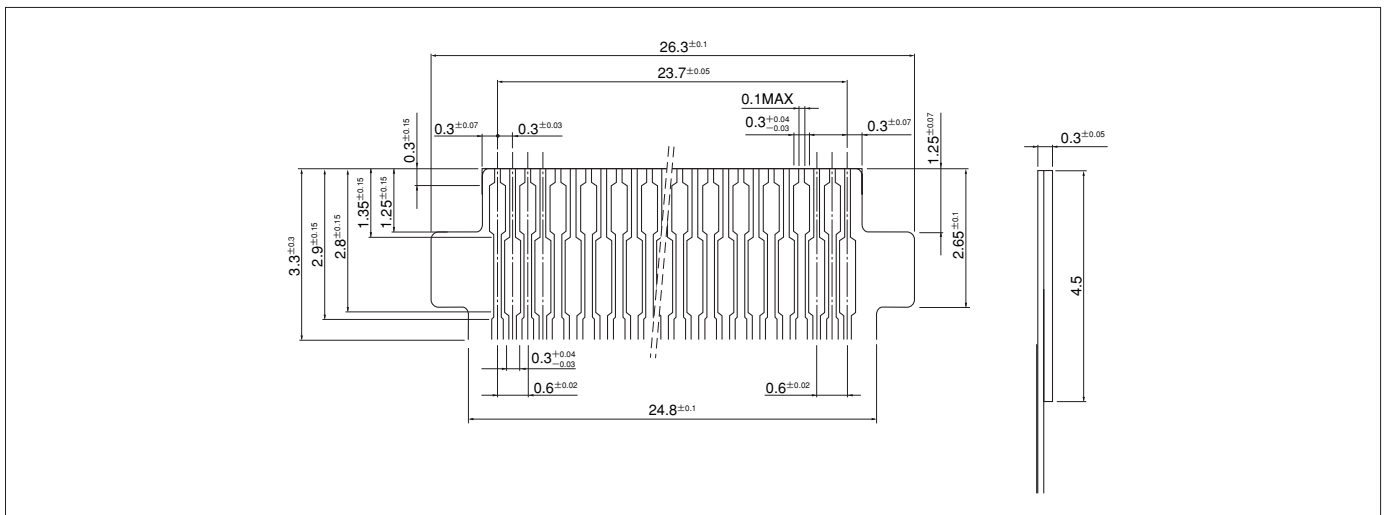
Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
80	80FXM-RSM1-G-1-TB	23.4	23.4	28.7	1,500

Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated
 Cover: PPS, UL94V-0
 Housing: LCP, UL94V-0
 Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

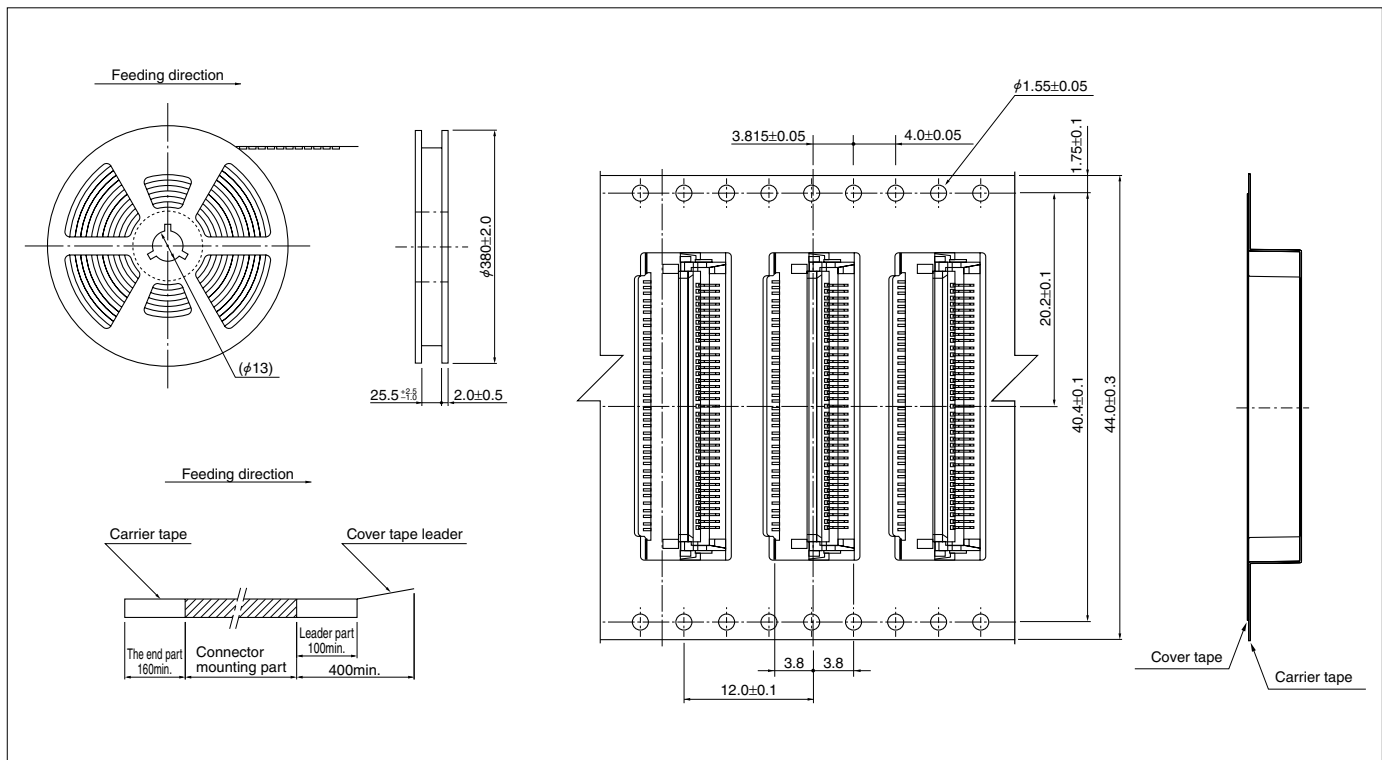
RoHS compliance This product displays (LF)(SN) on a label.

Lead section dimensions of FPC



FXM CONNECTOR

Taping specifications



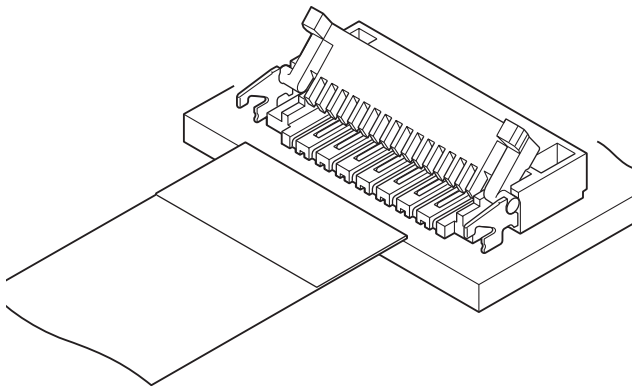
Note:

1. Specifications conform to JIS C 0806. The tape width, connector loading recess square hole dimensions, etc. are determined by the number of circuits and external shape of the connector to be loaded.
2. Specifications are subject to change without prior notice.



FXR CONNECTOR

0.3mm pitch/Connectors for FPC



This FXR connector is a ZIF type connector for FPC with only 1.0mm height.

- **Low profile and ZIF mechanism**
- **Space saving design**
- **Heat resisting design suitable for surface mounting**

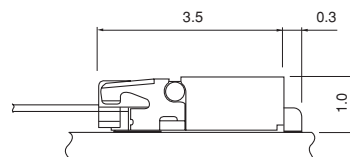
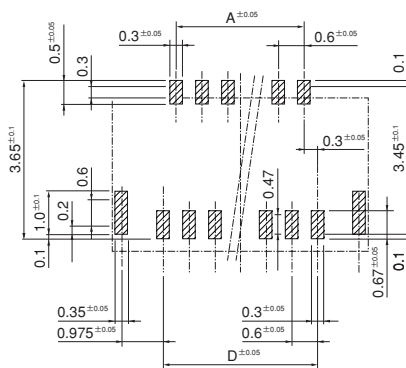
Specifications

- Current rating: 0.2A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/50m Ω max.
After environmental testing/50m Ω max.
(variation from initial value)
- Insulation resistance: 50M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/0.3mm
Conductor width/0.3mm
Mating part thickness/0.2 \pm 0.03mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

 Recognized E60389

PC board layout (viewed from component side) and Assembly layout

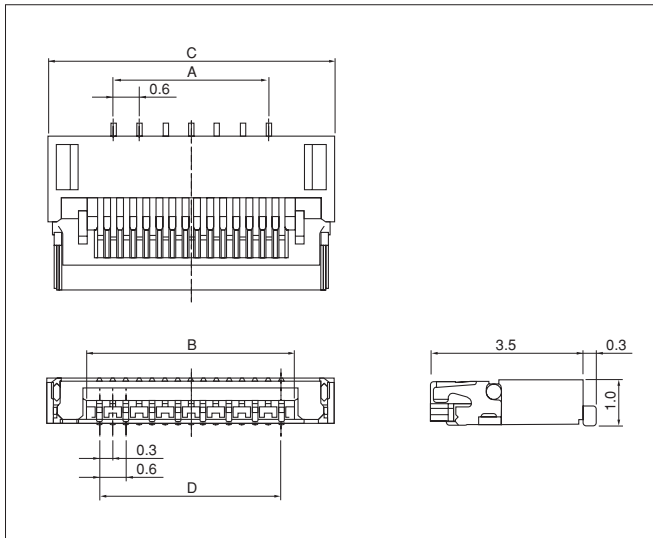


Note: 1. Tolerances are non-cumulative: ± 0.05 mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

FXR CONNECTOR

Connector



Circuits	Model No.	Dimensions (mm)				Q'ty / reel
		A	B	C	D	
11	11FXR-RSM1-GAN-TB	2.4	3.6	5.4	3.0	5,000
13	13FXR-RSM1-GAN-TB	3.0	4.2	6.0	3.6	5,000
15	15FXR-RSM1-GAN-TB	3.6	4.8	6.6	4.2	5,000
17	17FXR-RSM1-GAN-TB	4.2	5.4	7.2	4.8	5,000
19	19FXR-RSM1-GAN-TB	4.8	6.0	7.8	5.4	5,000
21	21FXR-RSM1-GAN-TB	5.4	6.6	8.4	6.0	5,000
23	23FXR-RSM1-GAN-TB	6.0	7.2	9.0	6.6	5,000
25	25FXR-RSM1-GAN-TB	6.6	7.8	9.6	7.2	5,000
27	27FXR-RSM1-GAN-TB	7.2	8.4	10.2	7.8	5,000
29	29FXR-RSM1-GAN-TB	7.8	9.0	10.8	8.4	5,000
31	31FXR-RSM1-GAN-TB	8.4	9.6	11.4	9.0	5,000
33	33FXR-RSM1-GAN-TB	9.0	10.2	12.0	9.6	5,000
35	35FXR-RSM1-GAN-TB	9.6	10.8	12.6	10.2	5,000
37	37FXR-RSM1-GAN-TB	10.2	11.4	13.2	10.8	5,000
39	39FXR-RSM1-GAN-TB	10.8	12.0	13.8	11.4	5,000
45	45FXR-RSM1-GAN-TB	12.6	13.8	15.6	13.2	5,000
47	47FXR-RSM1-GAN-TB	13.2	14.4	16.2	13.8	5,000
51	51FXR-RSM1-GAN-TB	14.4	15.6	17.4	15.0	5,000

Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated (nickel-stripe)

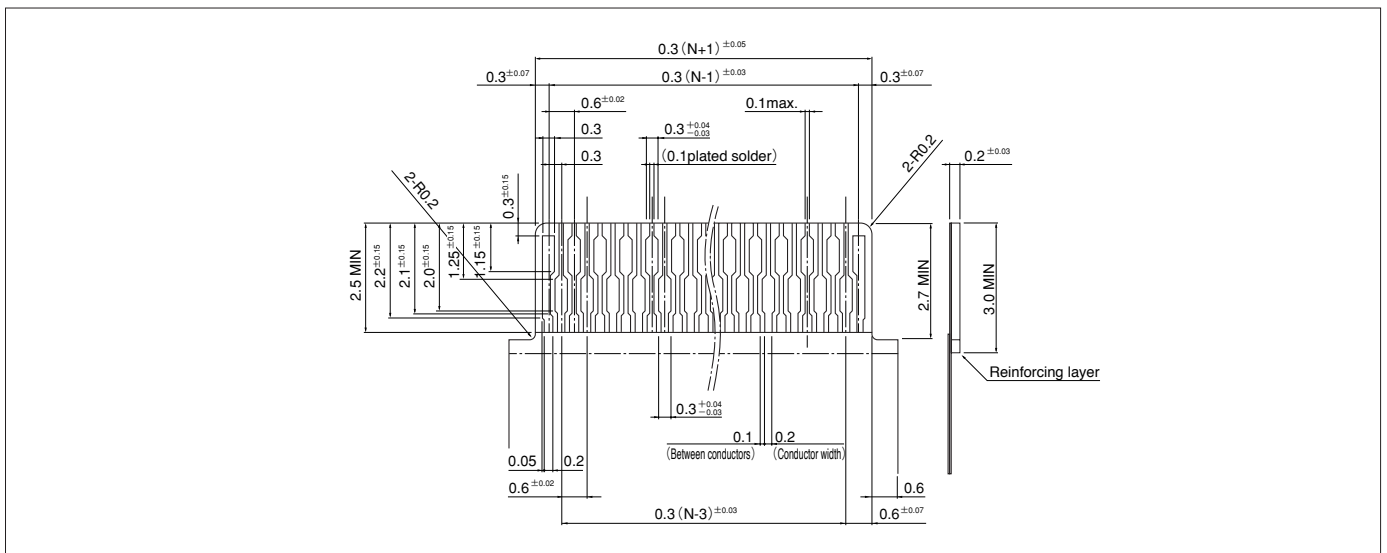
Cover: PPS, UL94V-0

Housing: LCP, UL94V-0

Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN)(S)(1) on a label.

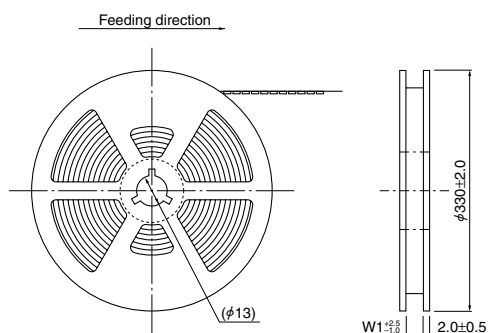
Lead section dimensions of FPC



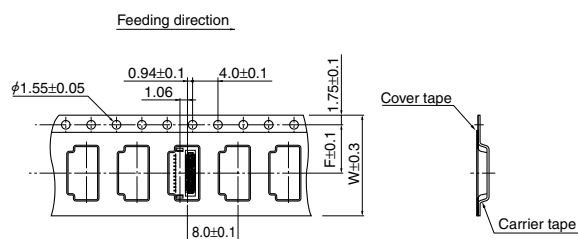
Note: N --- Number of circuits

FXR CONNECTOR

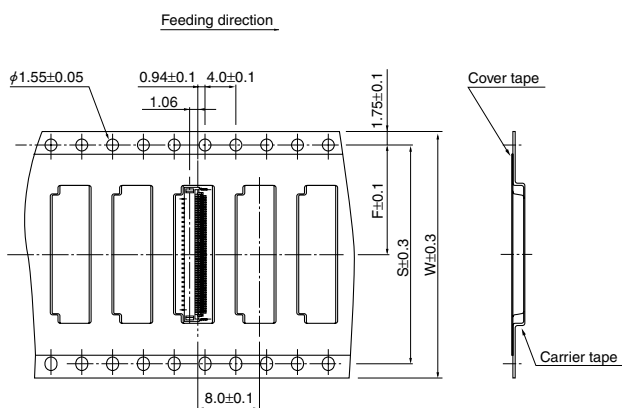
Taping specifications



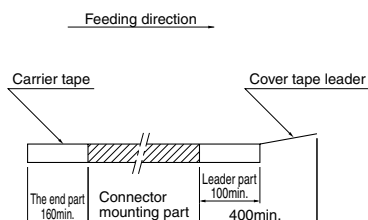
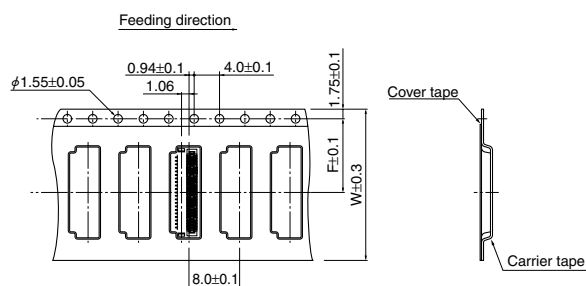
(11 to 23 circuits)



(51 circuits)



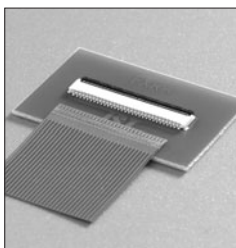
(25 to 47 circuits)



Circuits	Taping dimensions (mm)				Q'ty / reel
	F	S	W	W1	
11 to 23	7.5	—	16.0	17.5	5,000
25 to 47	11.5	—	24.0	25.5	5,000
51	14.2	28.4	32.0	33.5	5,000

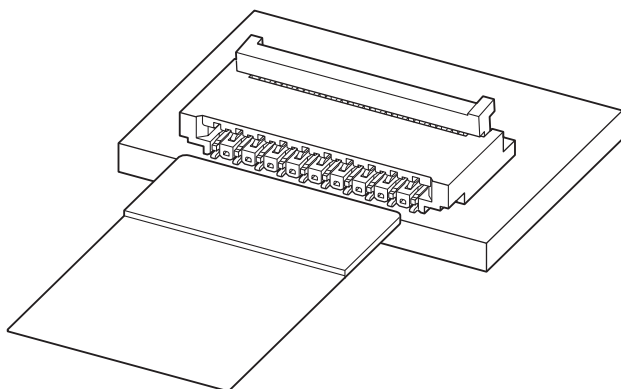
Note:

- Specifications conform to JIS C 0806. The tape width, connector loading recess square hole dimensions, etc. are determined by the number of circuits and external shape of the connector to be loaded.
- Specifications are subject to change without prior notice.



FXRH CONNECTOR

0.3mm pitch/Connectors for FPC



This FXRH connector is ZIF type connector for FPC with only 0.9mm height.

- Low profile with 0.9mm height and ZIF type
- Compact mounting space
- Heat resisting design suitable for surface mounting
- Double-sided contact
- Back-flip lock mechanism
- PCB pattern and FPC are in common with FXR connector

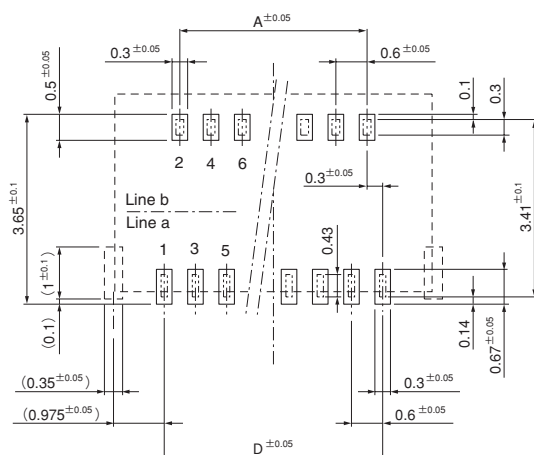
Specifications

- Current rating: 0.2A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 150mΩ max.
After environmental testing/ 60mΩ max.
(variation from initial value)
- Insulation resistance: 50MΩ min.
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/ 0.3mm
Conductor width/ 0.3mm
Mating part thickness/ 0.2±0.03mm

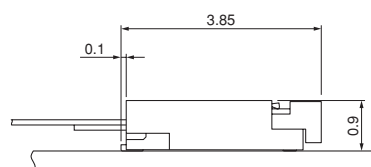
* Compliant with RoHS.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.



Dimensions in parentheses are the reference dimensions when the pattern is in common with FXR connector.

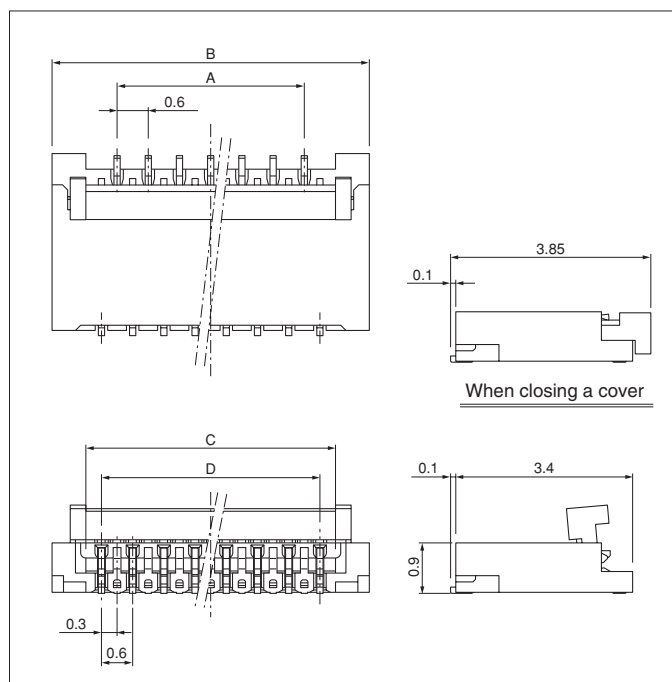


Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. The dimensions above should serve as a guideline. Contact JST for details.

FXRH CONNECTOR

Connector



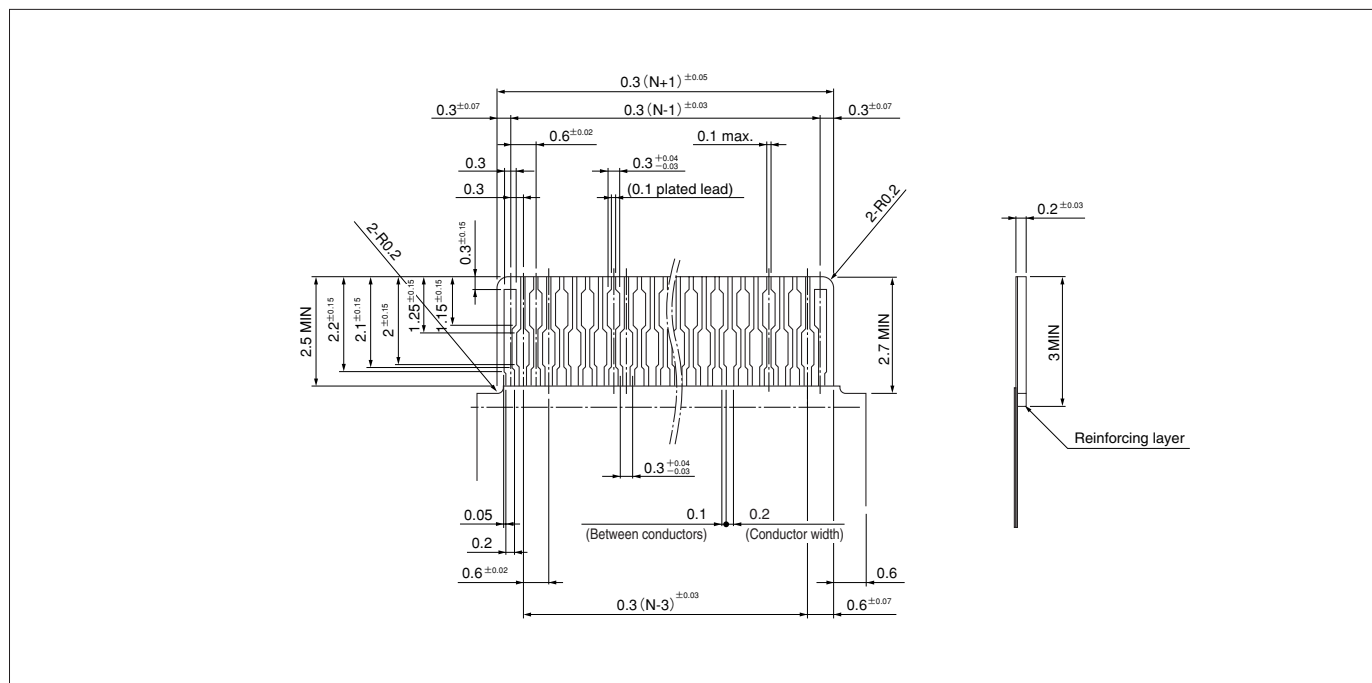
Circuits	Model No.	Dimensions (mm)				Q'ty / reel
		A	B	C	D	
21	21FXRH-SM1-GAN-TF	5.4	7.9	6.6	6.0	5,000
25	25FXRH-SM1-GAN-TF	6.6	9.1	7.8	7.2	5,000
29	29FXRH-SM1-GAN-TF	7.8	10.3	9.0	8.4	5,000
33	33FXRH-SM1-GAN-TF	9.0	11.5	10.2	9.6	5,000
35	35FXRH-SM1-GAN-TF	9.6	12.1	10.8	10.2	5,000
39	39FXRH-SM1-GAN-TF	10.8	13.3	12.0	11.4	5,000
45	45FXRH-SM1-GAN-TF	12.6	15.1	13.8	13.2	5,000
51	51FXRH-SM1-GAN-TF	14.4	16.9	15.6	15.0	5,000
61	61FXRH-SM1-GAN-TF	17.4	19.9	18.6	18.0	5,000

Material and Finish

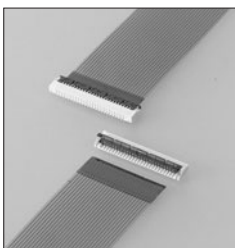
Contact: Copper alloy, nickel-undercoated, gold-plated (nickel-stripe)
 Cover: PA 6T, UL94V-0
 Housing: LCP, UL94V-0

RoHS compliance

Lead section dimensions of FPC

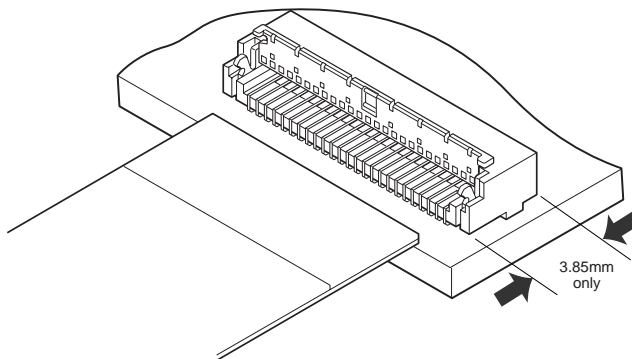


Note: N --- Number of circuits



FXS CONNECTOR

0.3mm pitch/Connectors for FPC



Space saving flip lock type connector, with 1.8mm height and 3.85mm depth.

- Space saving design
- Rotating cover structure
- Locking structure

Specifications

- Current rating: 0.2A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/50m Ω max.
After environmental testing/50m Ω max.
(variation from initial value)
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/0.3mm
<0.6mm pitch staggered>
Conductor width/0.3mm
Mating part thickness/0.2±0.03mm

Note: FPC to be actually used should be checked for applicability.

* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

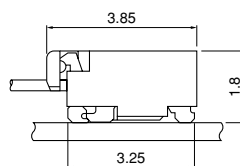
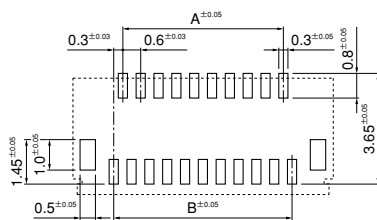
* Contact JST for details.

Standards

Ⓜ Recognized E60389

Ⓢ Certified LR20812

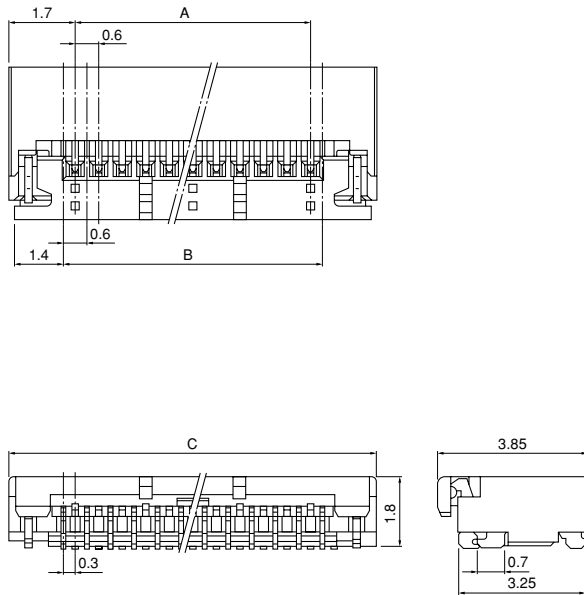
PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ±0.03mm for all centers.

2. The dimensions above should serve as a guideline. Contact JST for details.

Connector



Gold-plated

Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
15	15FXS-RSM1-G-TF (B)	3.6	4.2	7.0	2,500
19	19FXS-RSM1-G-TF (B)	4.8	5.4	8.2	2,500
21	21FXS-RSM1-G-TF (B)	5.4	6.0	8.8	2,500
25	25FXS-RSM1-G-TF (B)	6.6	7.2	10.0	2,500
33	33FXS-RSM1-G-TF (B)	9.0	9.6	12.4	2,500
45	45FXS-RSM1-G-TF (B)	12.6	13.2	16.0	2,500
51	51FXS-RSM1-G-TF (B)	14.4	15.0	17.8	2,500

Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated
Housing: Heat resisting resin, UL94V-0
Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Cover: Heat resisting resin, UL94V-0
Reinforcing pin: KOVAR
Rotary pin: KOVAR

RoHS compliance This product displays (LF)(SN) on a label.

Tin-plated

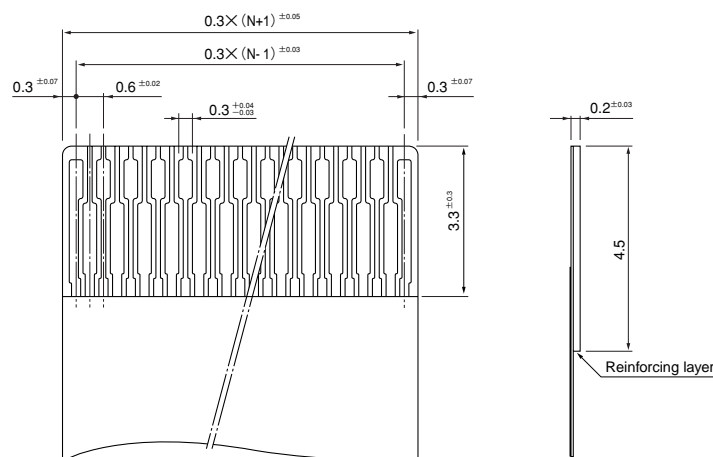
Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
15	15FXS-RSM1-TF (B)	3.6	4.2	7.0	2,500
19	19FXS-RSM1-TF (B)	4.8	5.4	8.2	2,500
21	21FXS-RSM1-TF (B)	5.4	6.0	8.8	2,500
25	25FXS-RSM1-TF (B)	6.6	7.2	10.0	2,500
33	33FXS-RSM1-TF (B)	9.0	9.6	12.4	2,500
45	45FXS-RSM1-TF (B)	12.6	13.2	16.0	2,500
51	51FXS-RSM1-TF (B)	14.4	15.0	17.8	2,500

Material and Finish

Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Housing: Heat resisting resin, UL94V-0
Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Cover: Heat resisting resin, UL94V-0
Reinforcing pin: KOVAR
Rotary pin: KOVAR

RoHS compliance This product displays (LF)(SN) on a label.

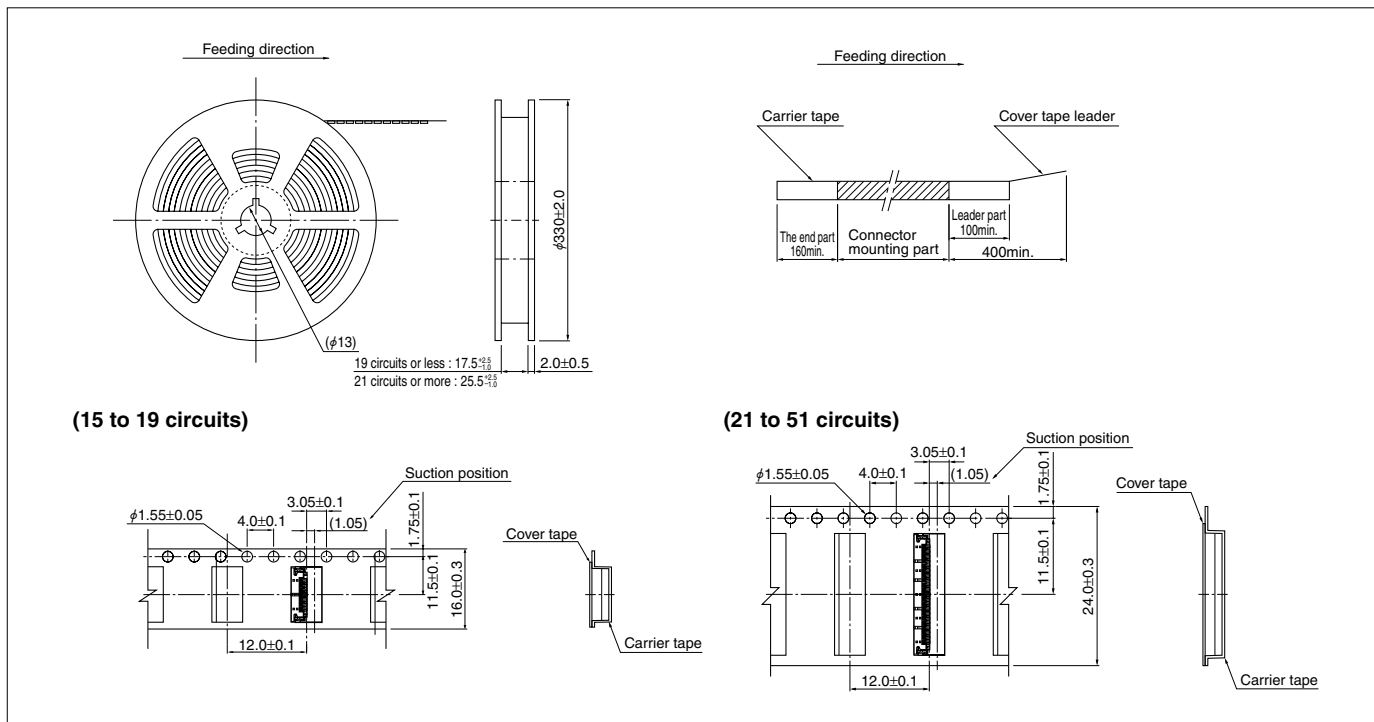
Lead section dimensions of FPC



Note: N---Number of circuits

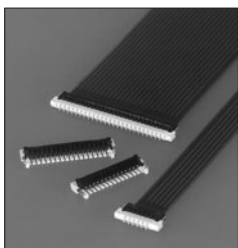
FXS CONNECTOR

Taping specifications



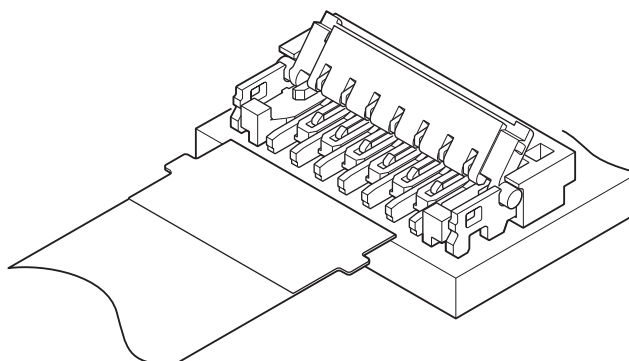
Note:

1. Specifications conform to JIS C 0806. The tape width, connector recess dimensions, etc. are determined by the number of circuits and external shape of the connector to be loaded.
2. Specifications are subject to change without prior notice.



FXV CONNECTOR

0.3mm pitch/Connectors for FPC



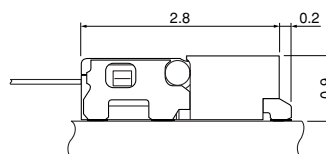
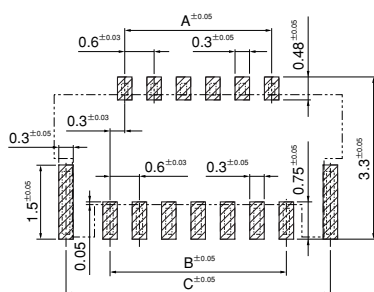
The FXV connector is a market require space saving and low profile 0.3mm pitch connector, and designed for corresponding to FPC with protrusions. As FPC with protrusions is used for this FXV connector, easy insertion operation, protection of incomplete insertion and miss-insertion are realized.

- **Double ZIF design for easy insertion operation of FPC**
- **Self-lock cover design**
- **Low profile and space saving**
- **FPC with protrusions**

Specifications

- Current rating: 0.2A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/60m Ω max.
After environmental testing/60m Ω max.
(variation from initial value)
- Insulation resistance: 50M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/0.3mm
Conductor width/0.3mm
Mating part thickness/0.2 \pm 0.03mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

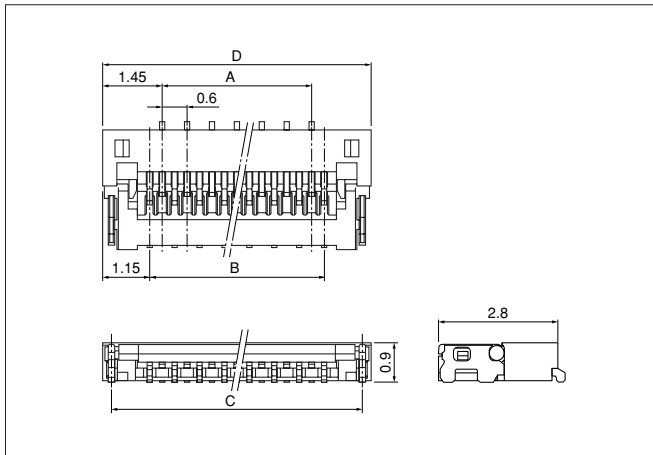
PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ± 0.05 mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

FXV CONNECTOR

Connector



Circuits	Model No.	Dimensions (mm)				Q'ty / reel
		A	B	C	D	
11	11FXV-RSM1-GAN-TF	2.4	3.0	4.82	5.3	5,000
17	17FXV-RSM1-GAN-TF	4.2	4.8	6.62	7.1	5,000
21	21FXV-RSM1-GAN-TF	5.4	6.0	7.82	8.3	5,000
25	25FXV-RSM1-GAN-TF	6.6	7.2	9.02	9.5	5,000
27	27FXV-RSM1-GAN-TF	7.2	7.8	9.62	10.1	5,000
31	31FXV-RSM1-GAN-TF	8.4	9.0	10.82	11.3	5,000
33	33FXV-RSM1-GAN-TF	9.0	9.6	11.42	11.9	5,000
39	39FXV-RSM1-GAN-TF	10.8	11.4	13.22	13.7	5,000
43	43FXV-RSM1-GAN-TF	12.0	12.6	14.42	14.9	5,000
51	51FXV-RSM1-GAN-TF	14.4	15.0	16.82	17.3	5,000

Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated (nickel-stripe)

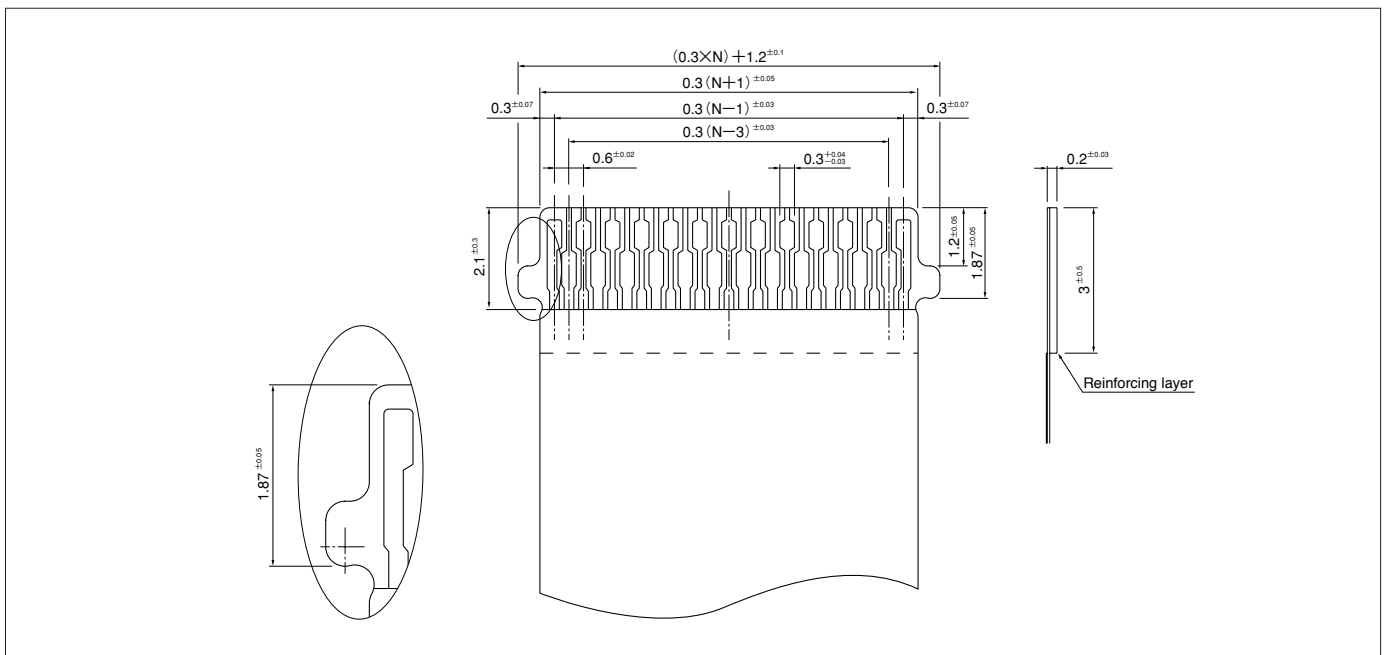
Housing: Heat resisting resin, UL94V-0

Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Cover: Heat resisting resin, UL94V-0

RoHS compliance This product displays (LF)(SN)(M) on a label.
This products listed above are supplied on embossed-tape.

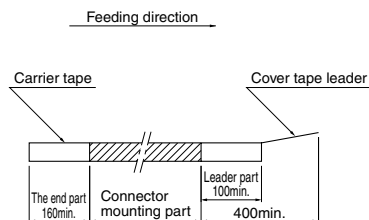
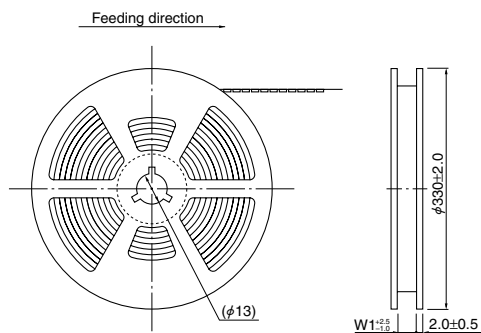
Lead section dimensions of FPC



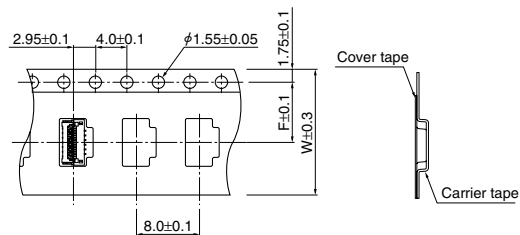
Note: N --- Number of circuits

FXV CONNECTOR

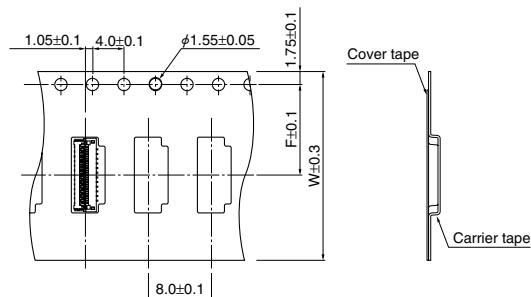
Taping specifications



(11 to 21 circuits)

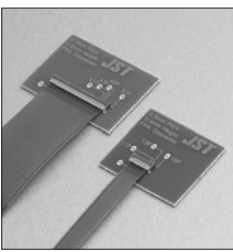


(25 to 51 circuits)



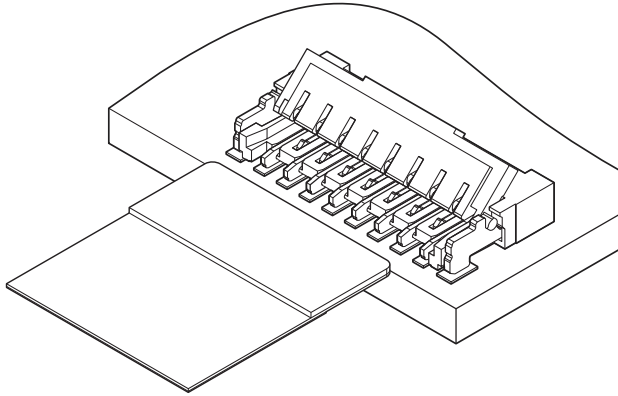
Circuits	Taping dimensions (mm)		Reel dimensions (mm)	Q'ty / reel
	F	W		
11 to 21	7.5	16.0	17.5	5,000
25 to 51	11.5	24.0	25.5	5,000

Note: 1. Specifications conform to JIS C 0806. The tape width, connector loading recess square hole dimensions, etc. are determined by the number of circuits and external shape of the connector to be loaded.
2. Specifications are subject to change without prior notice.



FXVL CONNECTOR

0.3mm pitch/Connectors for FPC



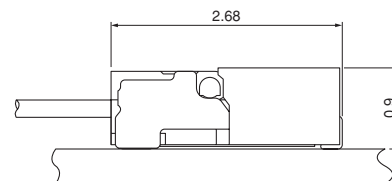
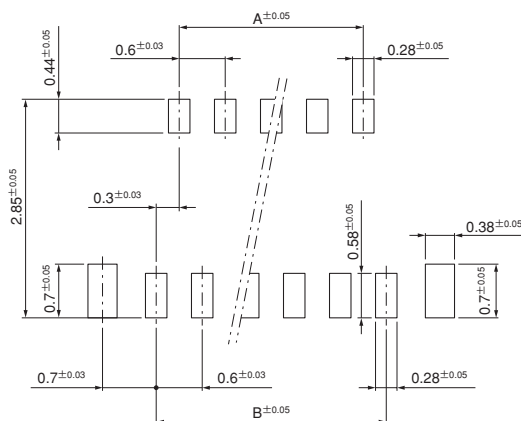
This FXVL connector is a space saving and low profile connector for FPC demanded from the market, and realizes 0.3mm pitch connector with a mounting height of 0.9mm and depth of 2.68mm. In 0.3mm pitch FPC connector, the smallest product in mounting area on the board has been provided.

- ***Double ZIF construction provides easy insertion operation of FPC***
- ***By adopting self locking mechanism, a cover can close with one touch operation.***
- ***The straight type FPC that is easily inserted is adopted.***

Specifications

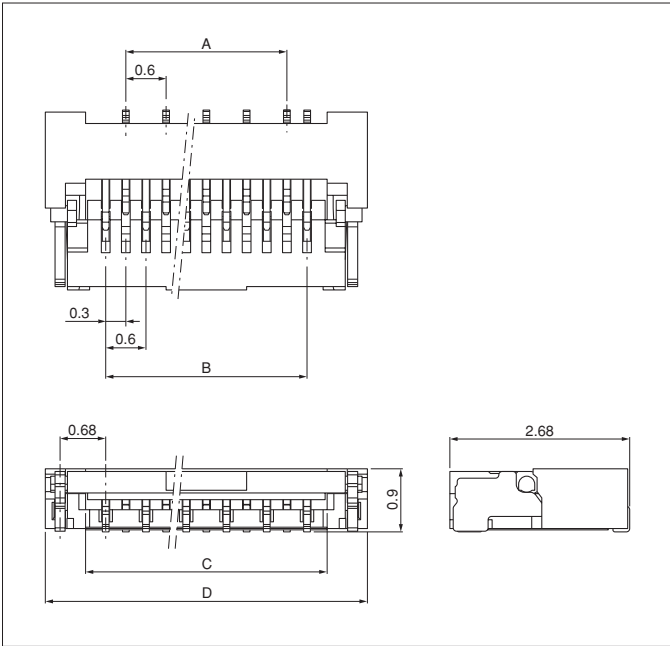
- Current rating: 0.2 A AC, DC
- Voltage rating: 50 V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 100 mΩ max.
After environmental tests/ 100 mΩ max.
(variation from initial value)
- Insulation resistance: 50 MΩ min.
- Withstanding voltage: Initial value; 200 VAC/minute
After humidity test; 100 VAC/minute
- Applicable FPC: Conductor pitch/ 0.3 mm
Conductor width/ 0.3 mm
Mating part thickness/ 0.2±0.03 mm

- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Compliant with RoHS.



FXVL CONNECTOR

Housing



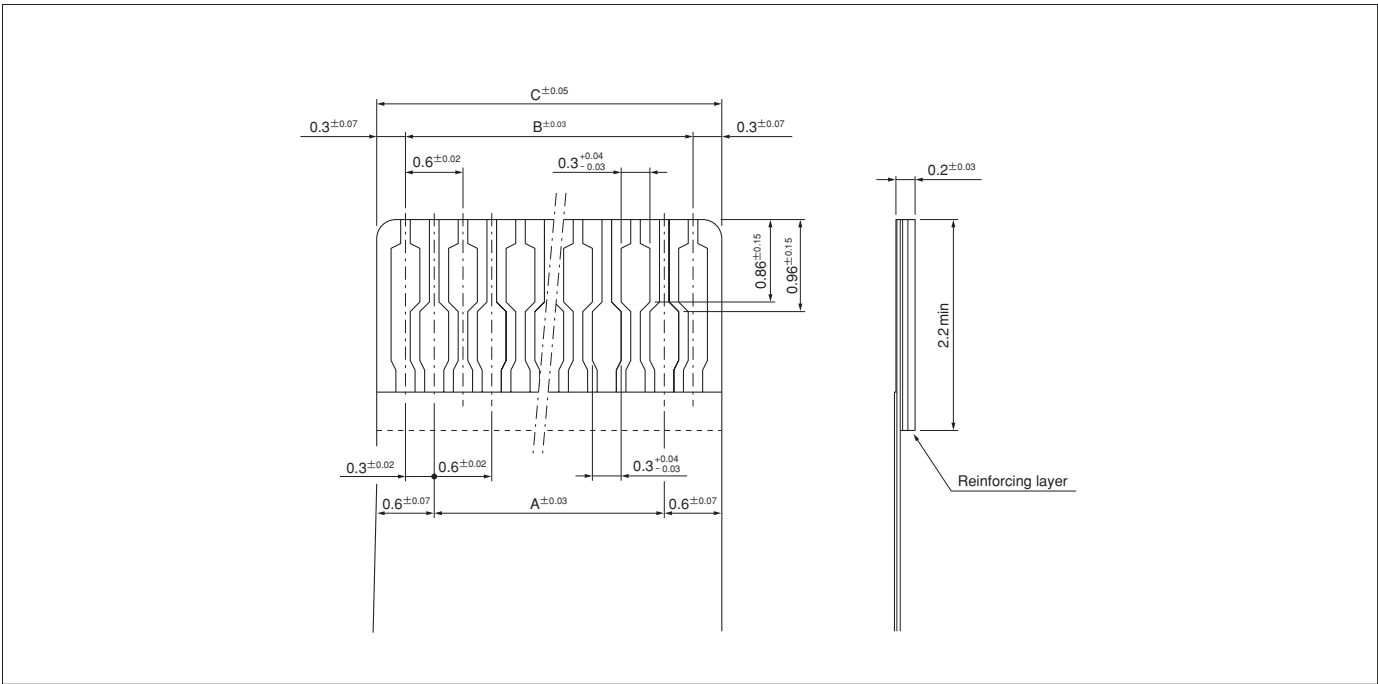
Circuits	Model No.	Dimensions (mm)				Q'ty / reel
		A	B	C	D	
11	11FXVL-RSM1-GAN-TF(HF)	2.4	3.0	3.6	4.8	5,000
13	13FXVL-RSM1-GAN-TF(HF)	3.0	3.6	4.2	5.4	5,000
15	15FXVL-RSM1-GAN-TF(HF)	3.6	4.2	4.8	6.0	5,000
17	17FXVL-RSM1-GAN-TF(HF)	4.2	4.8	5.4	6.6	5,000
21	21FXVL-RSM1-GAN-TF(HF)	5.4	6.0	6.6	7.8	5,000
23	23FXVL-RSM1-GAN-TF(HF)	6.0	6.6	7.2	8.4	5,000
25	25FXVL-RSM1-GAN-TF(HF)	6.6	7.2	7.8	9.0	5,000
33	33FXVL-RSM1-GAN-TF(HF)	9.0	9.6	10.2	11.4	5,000
41	41FXVL-RSM1-GAN-TF(HF)	11.4	12.0	12.6	13.8	5,000
43	43FXVL-RSM1-GAN-TF(HF)	12.0	12.6	13.2	14.4	5,000
51	51FXVL-RSM1-GAN-TF(HF)	14.4	15.0	15.6	16.8	5,000

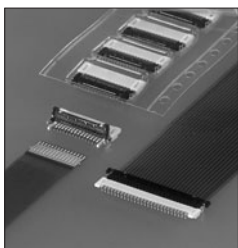
Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated
Socket housing: Heat resisting resin, black
Cover housing: Heat resisting resin, gray
Reinforcement: Copper alloy, tin-plated

RoHS compliance This product displays (HF) on a label.
Note: This products listed above are supplied on embossed-tape.

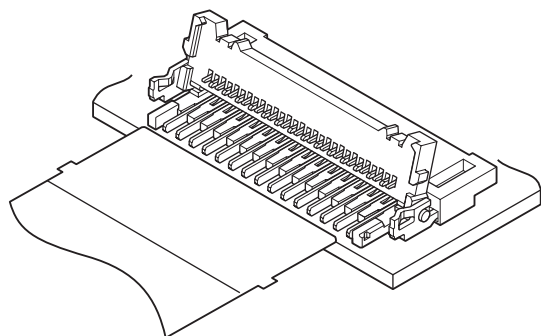
Lead section dimensions of FPC



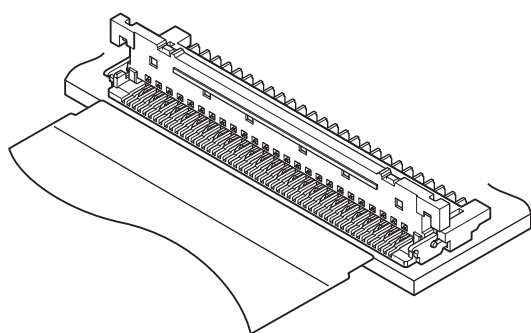


FXW CONNECTOR

0.3mm pitch/Connectors for FPC



Normal type



Reverse type

This low-profile FPC connector with a mounting height of 1.0mm has a Double ZIF Flip-lock slider structure.

- Low-profile (1.0mm height) & adoption of Double ZIF structure
- One-touch sliding operation of Molded Cover
- Heat resisting design suitable for surface mounting
- FPC with protrusions for normal type

Specifications

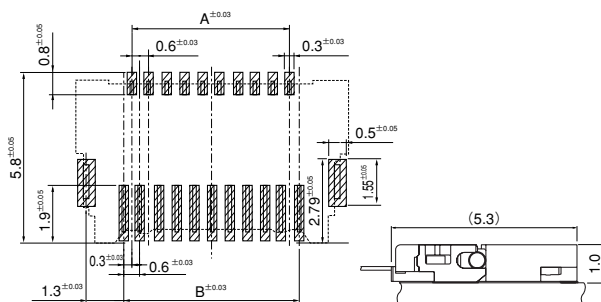
- Current rating: 0.2A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/60m Ω max.
After environmental testing/50m Ω max.
(variation from initial value)
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/0.3mm
<0.6mm pitch staggered>
Conductor width/0.3mm
Mating part thickness/0.12^{+0.03}_{-0.02}mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

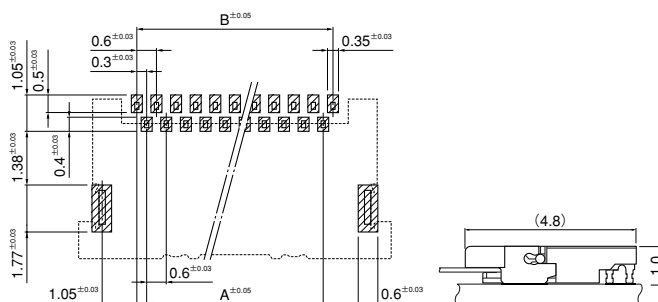
Ⓜ Recognized E60389

PC board layout (viewed from component side) and Assembly layout

Normal type



Reverse type

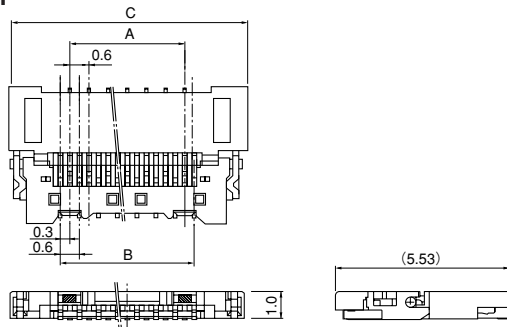


Note: 1. Tolerances are non-cumulative: ±0.03mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

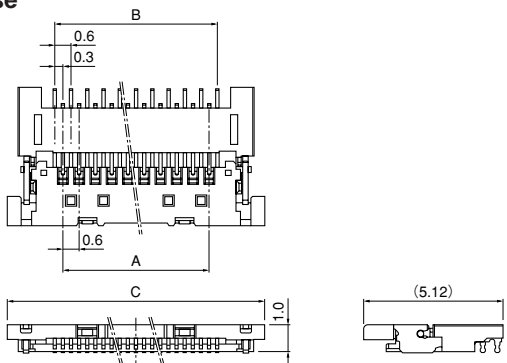
FXW CONNECTOR

Connector

Normal type



Reverse type



Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
25	25FXW-SM1-G-S-TB	6.6	7.2	10.4	5,000
29	29FXW-SM1-G-S-TB	7.8	8.4	11.6	5,000

Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated
Housing: Heat resisting resin, UL94V-0
Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Cover: Heat resisting resin, UL94V-0

RoHS compliance This product displays (LF)(SN) on a label.

Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
17	17FXW-RSM1-G-S-TB	4.2	4.8	8.3	4,500
27	27FXW-RSM1-G-S-TB	7.2	7.8	11.3	4,500
31	31FXW-RSM1-G-S-TB	8.4	9.0	12.5	4,500
35	35FXW-RSM1-G-S-TB	9.6	10.2	13.7	4,500
41	41FXW-RSM1-G-S-TB	11.4	12.0	15.5	4,500
51	51FXW-RSM1-G-S-TB	14.4	15.0	18.5	4,500
59	59FXW-RSM1-G-S-TB	16.8	17.4	20.9	4,500

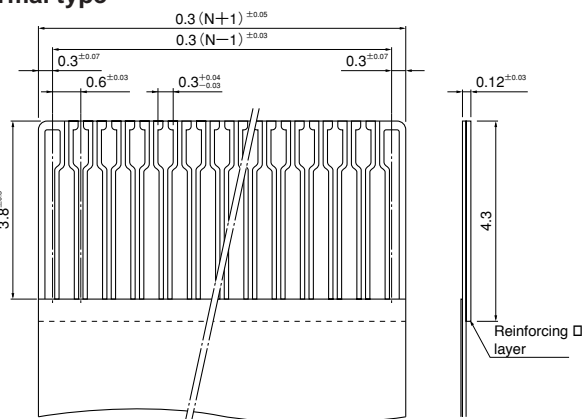
Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated
Housing: Heat resisting resin, UL94V-0
Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Cover: Heat resisting resin, UL94V-0

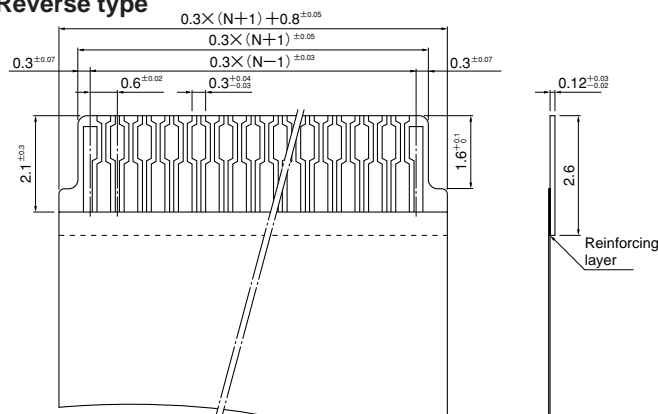
RoHS compliance This product displays (LF)(SN) on a label.

Lead section dimensions of FPC

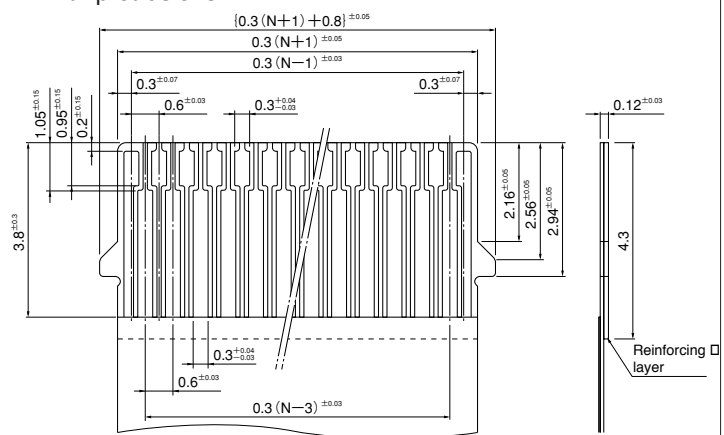
Normal type



Reverse type



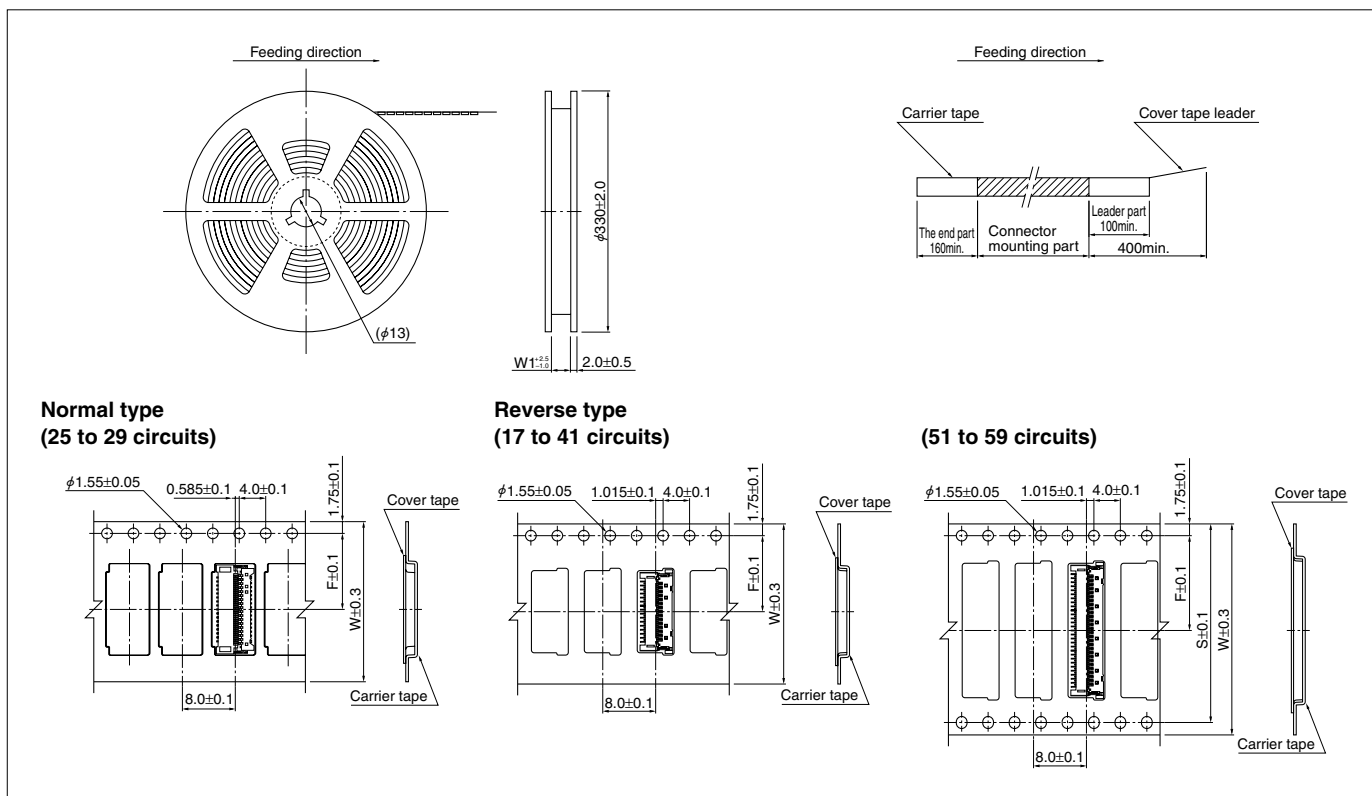
<With protrusions>



Note: N---Number of circuits

FXW CONNECTOR

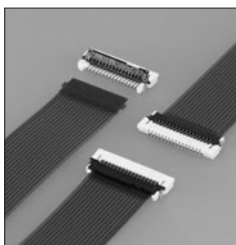
Taping specifications



Circuits	Taping dimensions (mm)			Reel dimensions (mm)	Q'ty / reel	
	F	S	W		Nomal	Reverse
17	7.5	—	16.0	17.5	—	4,500
25 to 29	11.5	—	24.0	25.5	5,000	—
27 to 41	11.5	—	24.0	25.5	—	4,500
51 to 59	14.2	28.4	32.0	33.5	—	4,500

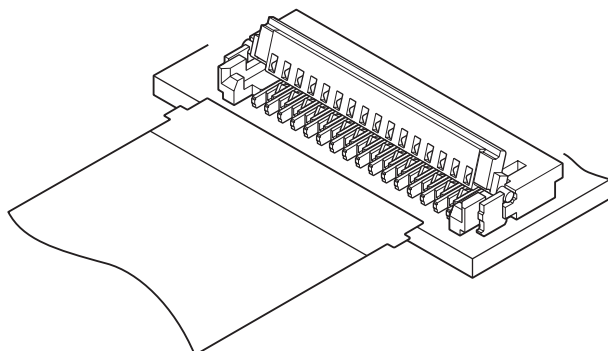
Note:

- Specifications conform to JIS C 0806. The tape width, connector recess dimensions, etc. are determined by the number of circuits and external shape of the connector to be loaded.
- Specifications are subject to change without prior notice.



FXY CONNECTOR

0.3mm pitch/Connectors for FPC



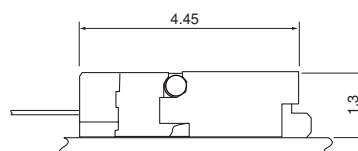
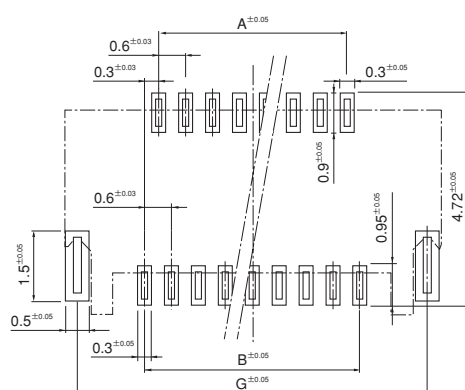
In addition to achieving space saving and low profile features demanded by the market, this connector also realizes superb operability by adopting a FPC with protrusion. The use of the FPC provides secure and foolproof mating at the customers' production site.

- **ZIF mechanism**
- **Self-lock mechanism enables the cover to close by one-touch operation**
- **A FPC with protrusion improves operability and reliability**

Specifications

- Current rating: 0.2A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/70m Ω max.
After environmental testing/60m Ω max.
(variation from initial value)
- Insulation resistance: 50M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/0.3mm
<0.6mm pitch staggered>
Conductor width/0.3mm
Mating part thickness/0.2±0.03mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

PC board layout (viewed from component side) and Assembly layout

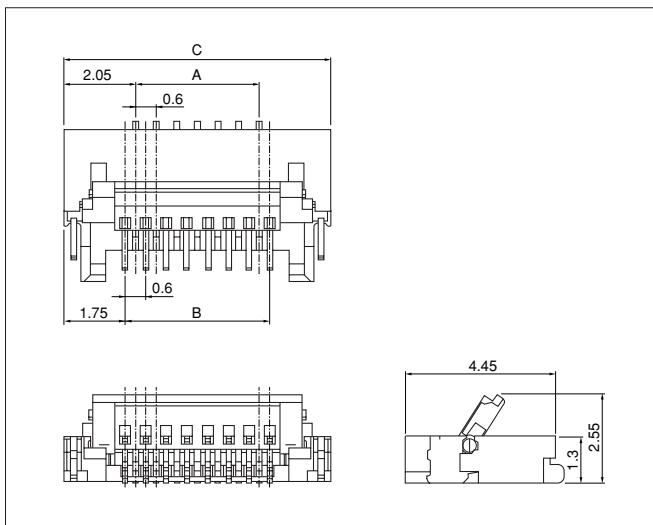


Circuits	Dimensions (mm)		
	A	B	G
19	4.8	5.4	8.4
25	6.6	7.2	10.2
27	7.2	7.8	10.8
31	8.4	9.0	12.0
33	9.0	9.6	12.6
37	10.2	10.8	13.8
45	12.6	13.2	16.2
51	14.4	15.0	18.0

Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

FXY CONNECTOR

Connector



Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
15	15FXY-RSM1-GAN-1-TB	3.6	4.2	7.7	2,500
19	19FXY-RSM1-GAN-1-TB	4.8	5.4	8.9	2,500
25	25FXY-RSM1-GAN-1-TB	6.6	7.2	10.7	2,500
27	27FXY-RSM1-GAN-1-TB	7.2	7.8	11.3	2,500
31	31FXY-RSM1-GAN-1-TB	8.4	9.0	12.5	2,500
33	33FXY-RSM1-GAN-1-TB	9.0	9.6	13.1	2,500
37	37FXY-RSM1-GAN-1-TB	10.2	10.8	14.3	2,500
39	39FXY-RSM1-GAN-1-TB	10.8	11.4	14.9	2,500
45	45FXY-RSM1-GAN-1-TB	12.6	13.2	16.7	2,500
51	51FXY-RSM1-GAN-1-TB	14.4	15.0	18.5	2,500

Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated (nickel-stripe)

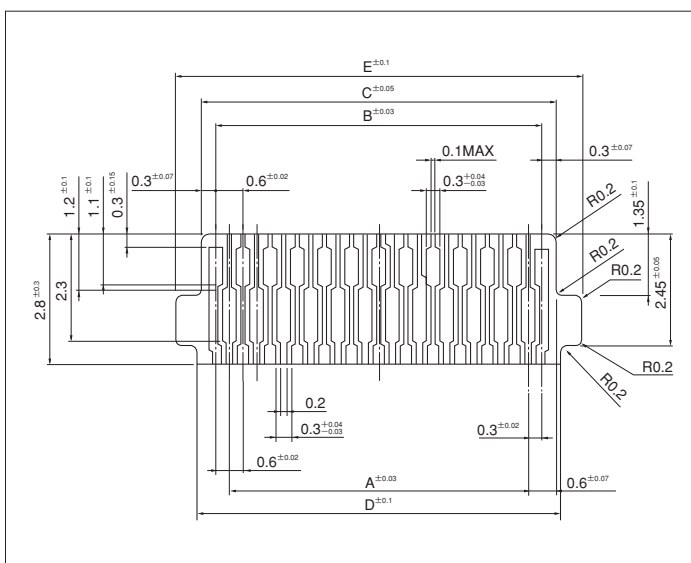
Cover: PPS, UL94V-0

Housing: LCP, UL94V-0

Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

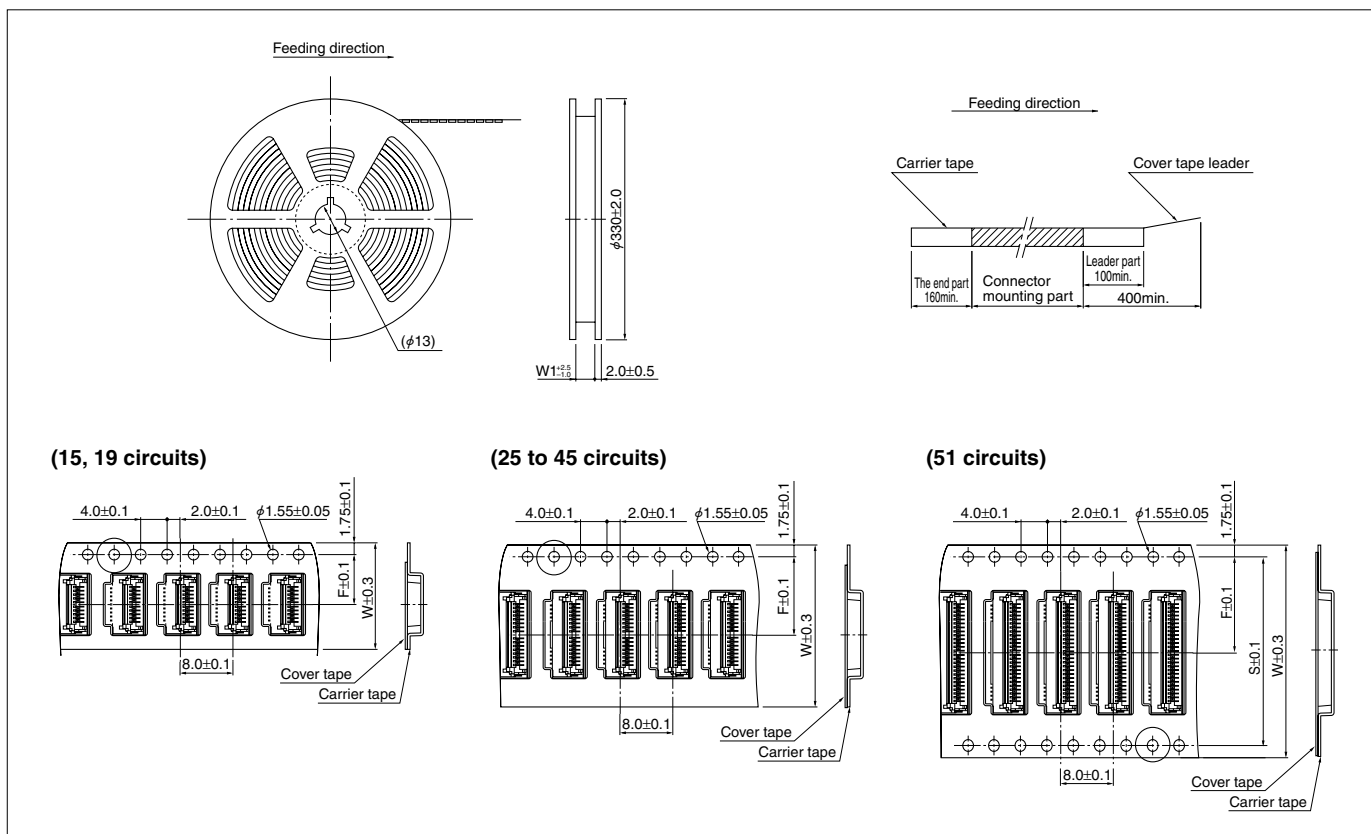
Lead section dimensions of FPC



Circuits	Dimensions (mm)				
	A	B	C	D	E
19	4.8	5.4	6.0	6.3	7.2
25	6.6	7.2	7.8	8.1	9.0
27	7.2	7.8	8.4	8.7	9.6
31	8.4	9.0	9.6	9.9	10.8
33	9.0	9.6	10.2	10.5	11.4
37	10.2	10.8	11.4	11.7	12.6
45	12.6	13.2	13.8	14.1	15.0
51	14.4	15.0	15.6	15.9	16.8

FX CONNECTOR

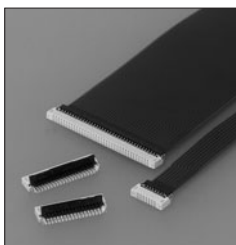
Taping specifications



Circuits	Taping dimensions (mm)				Q'ty / reel
	F	S	W	W1	
15, 19	7.5	—	16.0	17.5	2,500
25 to 45	11.5	—	24.0	25.5	2,500
51	14.2	28.4	32.0	33.5	2,500

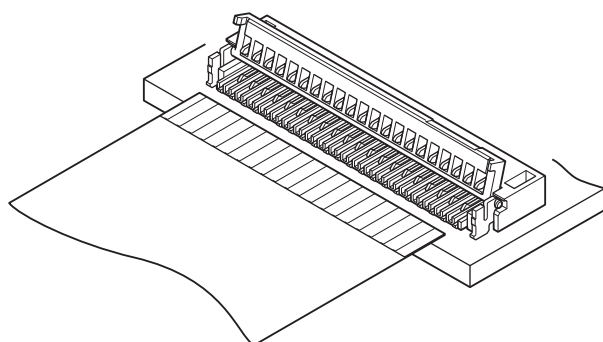
Note:

1. Specifications conform to JIS C 0806. The tape width, connector loading recess square hole dimensions, etc. are determined by the number of circuits and external shape of the connector to be loaded.
2. Specifications are subject to change without prior notice.



FXZ CONNECTOR

0.3mm pitch/Connectors for FPC



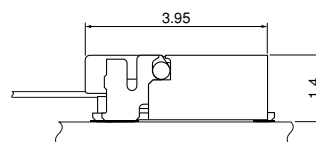
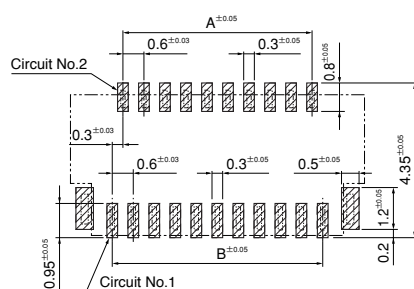
This connector realizes space saving and low profile features demanded by the market, and it provides excellent operability. Various number of circuits can be available.

- ***Double ZIF design for easy insertion operation of FPC***
- ***Self-lock mechanism enables the cover to close by 'one-touch' operation***
- ***Versatile number of circuit***

Specifications

- Current rating: 0.2A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/60m Ω max.
After environmental testing/60m Ω max.
(variation from initial value)
- Insulation resistance: 50M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/0.3mm
Conductor width/0.3mm
Mating part thickness/0.2±0.03mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

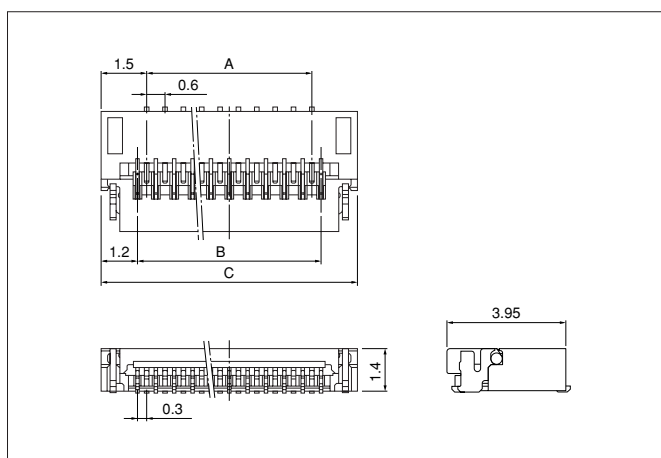
PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

FXZ CONNECTOR

Connector



Circuits	Model No.	Dimensions (mm)			Q'ty/ reel
		A	B	C	
15	15FXZ-RSM1-GAN-ETF	3.6	4.2	6.6	2,500
17	17FXZ-RSM1-GAN-ETF	4.2	4.8	7.2	2,500
23	23FXZ-RSM1-GAN-ETF	6.0	6.6	9.0	2,500
25	25FXZ-RSM1-GAN-ETF	6.6	7.2	9.6	2,500
29	29FXZ-RSM1-GAN-ETF	7.8	8.4	10.8	2,500
31	31FXZ-RSM1-GAN-ETF	8.4	9.0	11.4	2,500
35	35FXZ-RSM1-GAN-ETF	9.6	10.2	12.6	2,500
39	39FXZ-RSM1-GAN-ETF	10.8	11.4	13.8	2,500
51	51FXZ-RSM1-GAN-ETF	14.4	15.0	17.4	2,500
53	53FXZ-RSM1-GAN-ETF	15.0	15.6	18.0	2,500
61	61FXZ-RSM1-GAN-ETF	17.4	18.0	20.4	2,500
73	73FXZ-RSM1-GAN-ETF	21.0	21.6	24.0	2,500

Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated (nickel-stripe)

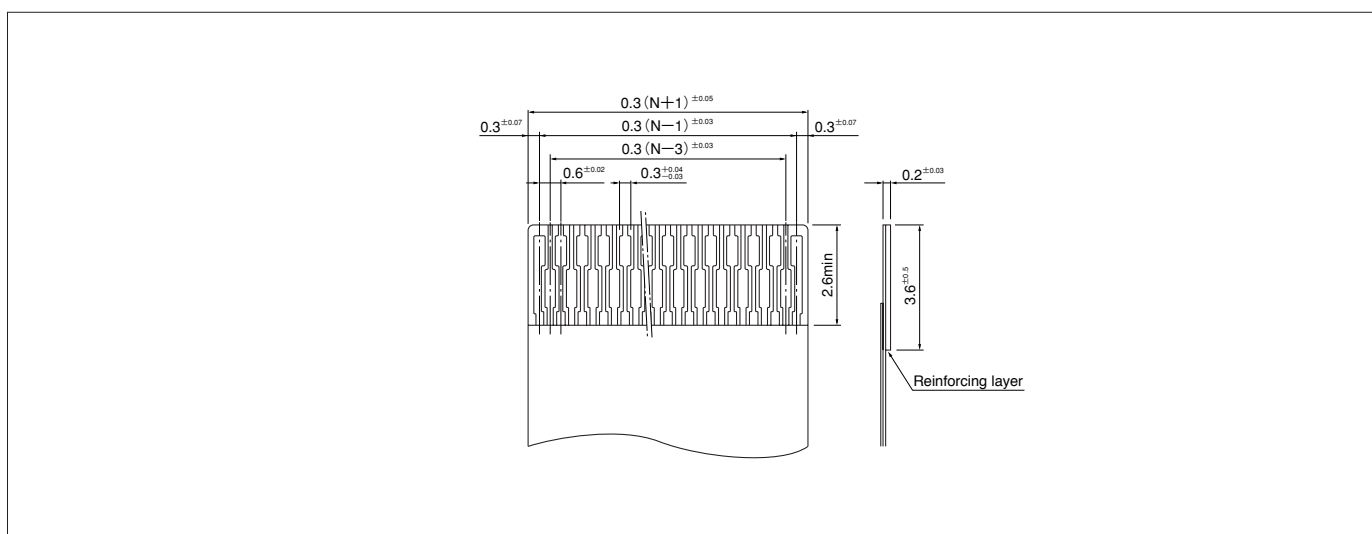
Housing: Heat resisting resin, UL94V-0

Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Cover: Heat resisting resin, UL94V-0

RoHS compliance This product displays (LF)(SN) on a label.
This products listed above are supplied on embossed-tape.

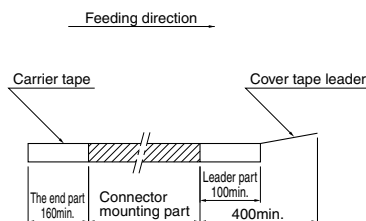
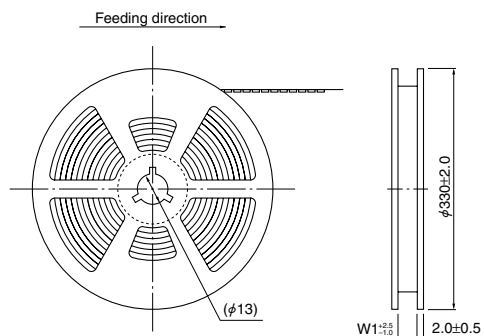
Lead section dimensions of FPC



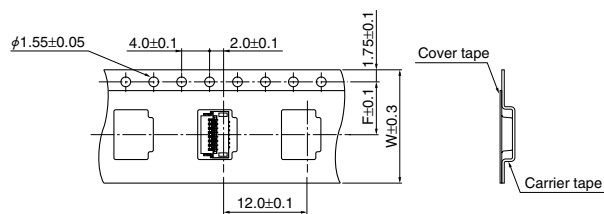
Note: N --- Number of circuits

FXZ CONNECTOR

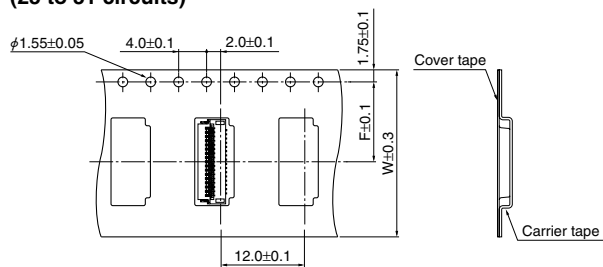
Taping specifications



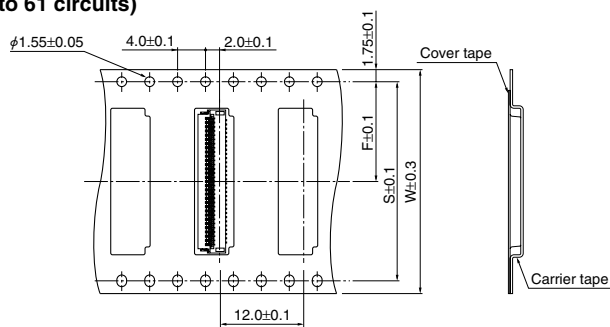
(15 to 23 circuits)



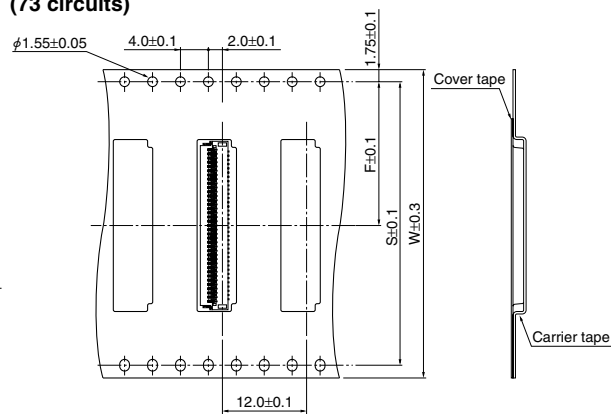
(25 to 51 circuits)



(53 to 61 circuits)



(73 circuits)



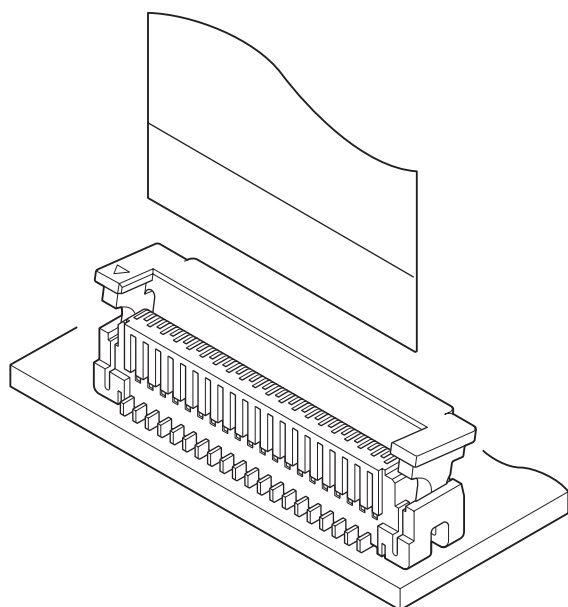
Circuits	Taping dimensions (mm)			Reel dimensions (mm)	Q'ty / reel
	F	S	W	W1	
15 to 23	7.5	—	16.0	17.5	2,500
25 to 51	11.5	—	24.0	25.5	2,500
53 to 61	14.2	28.4	32.0	33.5	2,500
73	20.2	40.4	44.0	45.5	2,500

Note: 1. Specifications conform to JIS C 0806. The tape width, connector loading recess square hole dimensions, etc. are determined by the number of circuits and external shape of the connector to be loaded.
2. Specifications are subject to change without prior notice.



FXZT CONNECTOR

0.3mm pitch/Connectors for FPC



Vertical 0.3mm pitch ZIF type connector.
This connector was mainly developed to connect FPC and subminiature digital products such as DVC, DSC, PDAs and so on.

- Vertical ZIF type FPC connector
- Space saving
- Adoption of slider structure

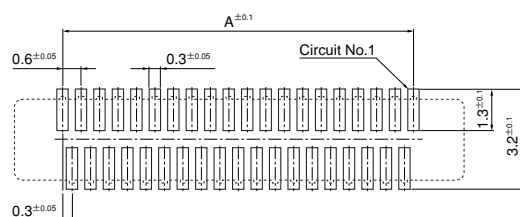
Specifications

- Current rating: 0.2A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/50m Ω max.
After environmental testing/50m Ω max.
(variation from initial value)
- Insulation resistance: 50M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/0.3mm
<0.6mm pitch staggered>
Conductor width/0.3mm
Mating part thickness/0.2±0.03mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

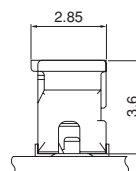
Standards

Recognized E60389

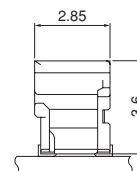
PC board layout (viewed from component side) and Assembly layout



Inner lock type
(39 circuits or less)



Outer lock type
(41 circuits or more)



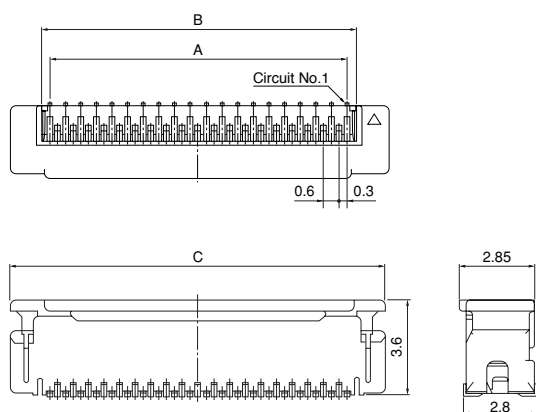
Note: 1. Tolerances are non-cumulative: ± 0.1 mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

FXZT CONNECTOR

Connector

Inner lock type

(39 circuits or less)



Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
17	17FXZT-SM1-GAN-TF	4.8	5.4	8.0	2,000
21	21FXZT-SM1-GAN-TF	6.0	6.6	9.2	2,000
23	23FXZT-SM1-GAN-TF	6.6	7.2	9.8	2,000
25	25FXZT-SM1-GAN-TF	7.2	7.8	10.4	2,000
27	27FXZT-SM1-GAN-TF	7.8	8.4	11.0	2,000
31	31FXZT-SM1-GAN-TF	9.0	9.6	12.2	2,000
33	33FXZT-SM1-GAN-TF	9.6	10.2	12.8	2,000
39	39FXZT-SM1-GAN-TF	11.4	12.0	14.6	2,000

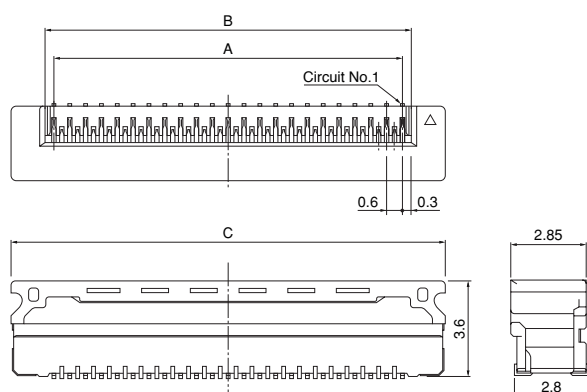
Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated (nickel-stripe)
 Slider housing: Heat resisting resin, UL94V-0, black
 Socket housing: Heat resisting resin, UL94V-0, natural

RoHS compliance This product displays (LF)(SN) on a label.

Outer lock type

(41 circuits or more)



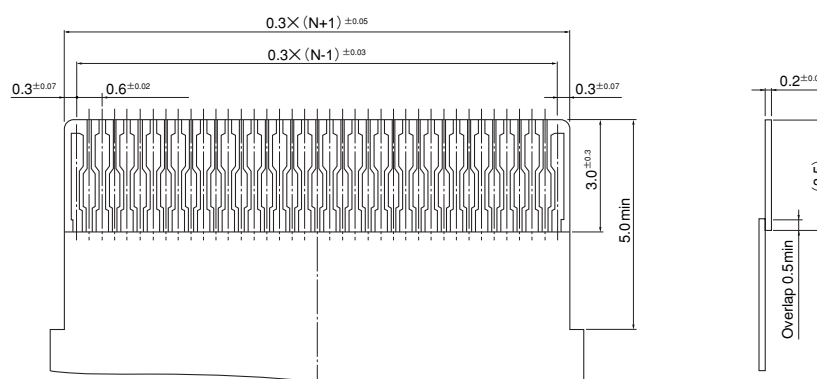
Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
45	45FXZT-SM1-GAN-TF	13.2	13.8	16.4	2,000
51	51FXZT-SM1-GAN-TF	15.0	15.6	18.2	2,000

Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated (nickel-stripe)
 Slider housing: Heat resisting resin, UL94V-0, black
 Socket housing: Heat resisting resin, UL94V-0, natural

RoHS compliance This product displays (LF)(SN) on a label.

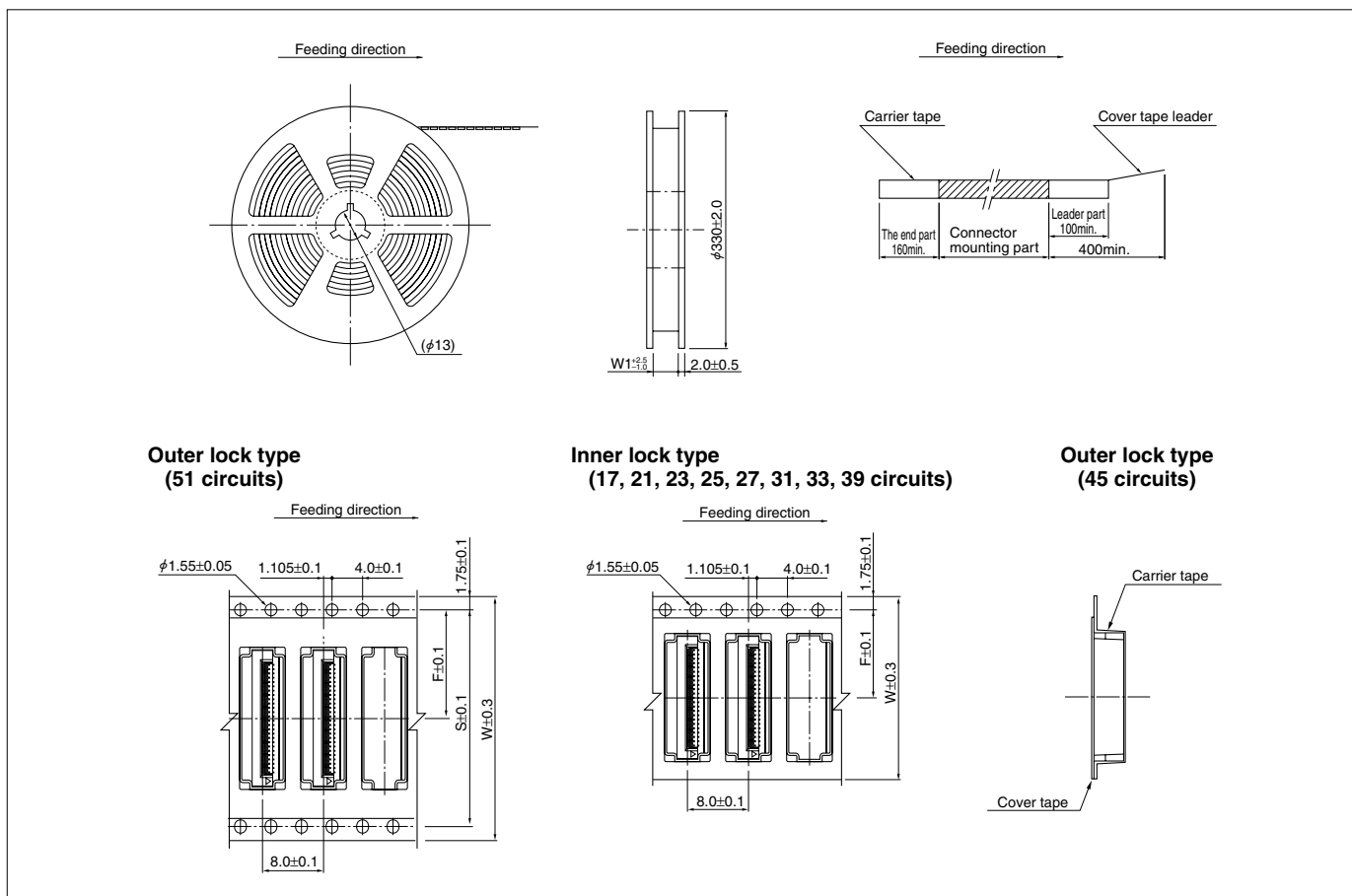
Lead section dimensions of FPC



Note: N---Number of circuits

FXZT CONNECTOR

Taping specifications



Inner lock type

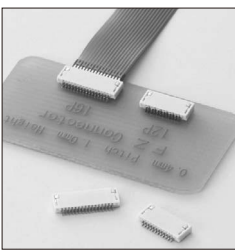
Circuits	Dimensions (mm)		Reel dimensions (mm)	Q'ty / reel
	F	W	W ₁	
17	7.5	16.0	17.5	2,000
21 to 39	11.5	24.0	25.5	2,000

Outer lock type

Circuits	Dimensions (mm)			Reel dimensions (mm)	Q'ty / reel
	F	S	W	W ₁	
45	11.5	—	24.0	25.5	2,000
51	14.2	28.4	32.0	33.5	2,000

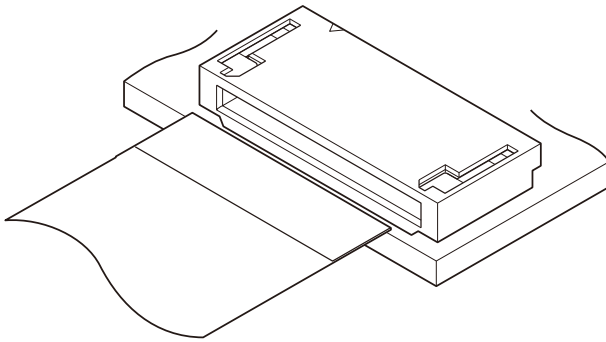
Note:

- Specifications conform to JIS C 0806. The tape width, connector loading recess square hole dimensions, etc. are determined by the number of circuits and external shape of the connector to be loaded.
- Specifications are subject to change without prior notice.



FZ CONNECTOR

0.4mm pitch/Connectors for FPC



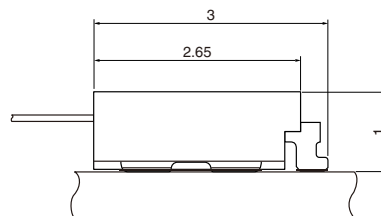
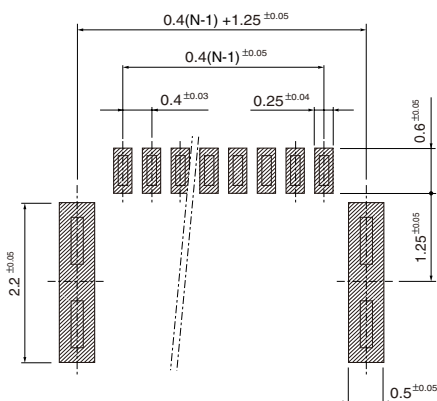
This is very small Non-ZIF type 0.4mm pitch connector with 1.0mm height and 3.0mm of the depth.

- ***Double-sided contact structure***

Specifications

- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/40mΩ max.
After environmental testing/30mΩ max.
(variation from initial value)
- Insulation resistance: 500MΩ min.
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/0.4mm
Conductor width/0.25mm
Mating part thickness/0.3±0.03mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

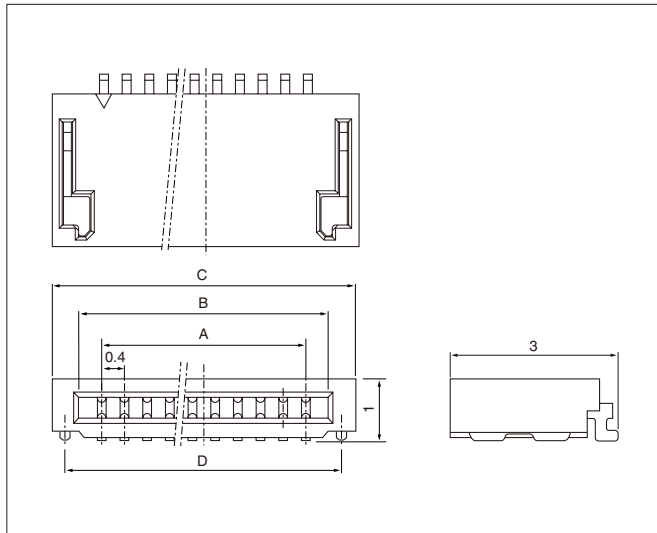
PC board layout and Assembly layout



Note: N --- Number of circuits

FZ CONNECTOR

Connector



Circuits	Model No.	Dimensions (mm)				Q'ty / reel
		A	B	C	D	
5	05FZ-SM1-GAN-TB	1.6	2.4	3.45	2.85	4,000
6	06FZ-SM1-GAN-TB	2.0	2.8	3.85	3.25	4,000
8	08FZ-SM1-GAN-TB	2.8	3.6	4.65	4.05	4,000
10	10FZ-SM1-GAN-TB	3.6	4.4	5.45	4.85	4,000
11	11FZ-SM1-GAN-TB	4.0	4.8	5.85	5.25	4,000
12	12FZ-SM1-GAN-TB	4.4	5.2	6.25	5.65	4,000
13	13FZ-SM1-GAN-TB	4.8	5.6	6.65	6.05	4,000
14	14FZ-SM1-GAN-TB	5.2	6.0	7.05	6.45	4,000
16	16FZ-SM1-GAN-TB	6.0	6.8	7.85	7.25	4,000
20	20FZ-SM1-GAN-TB	7.6	8.4	9.45	8.85	4,000
24	24FZ-SM1-GAN-TB	9.2	10.0	11.05	10.45	4,000

Material and Finish

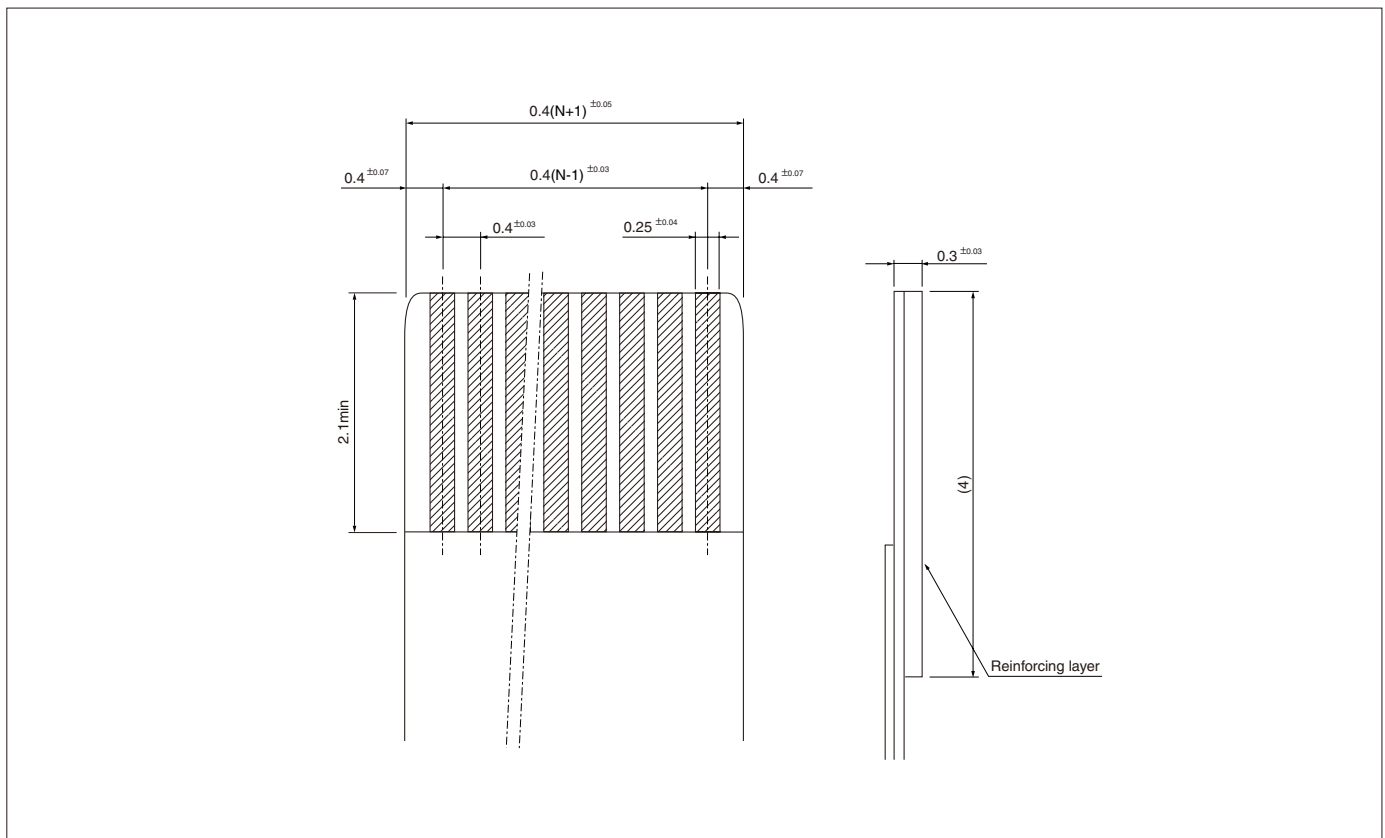
Contact: Copper alloy, nickel-undercoated, gold-plated

Housing: Heat resisting resin, UL94V-0

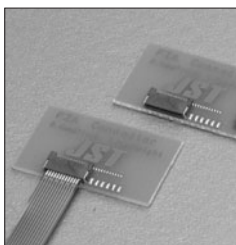
Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product [11 circuits or less] displays (LF)(SN)(A) on a label.
This product [12 circuits or more] displays (LF)(SN)(B) on a label.

Lead section dimensions of FPC

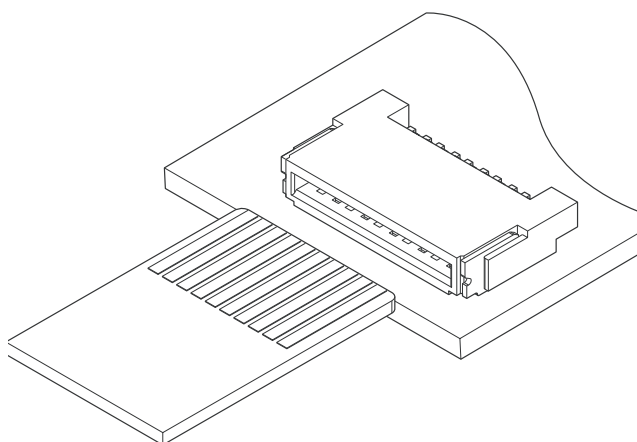


Note: N --- Number of circuits



FZA CONNECTOR

0.4mm pitch/Connectors for FPC



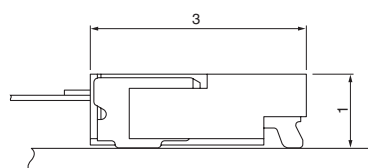
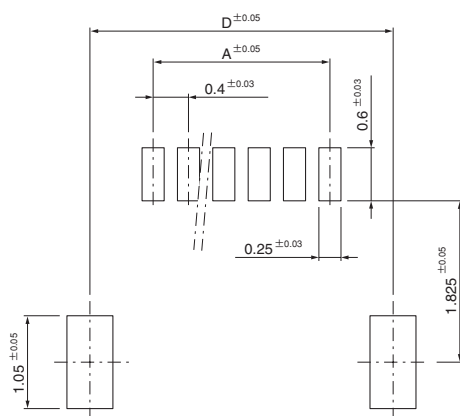
***This FZA connector is a renewal product of current FZ connector.
0.4mm pitch Non-ZIF small type connector with a mounting height of 1.0mm and 3.0mm in depth.***

- ***This is also compatible with mounting pattern of current FZ connector***
- ***Double-sided contact structure***

Specifications

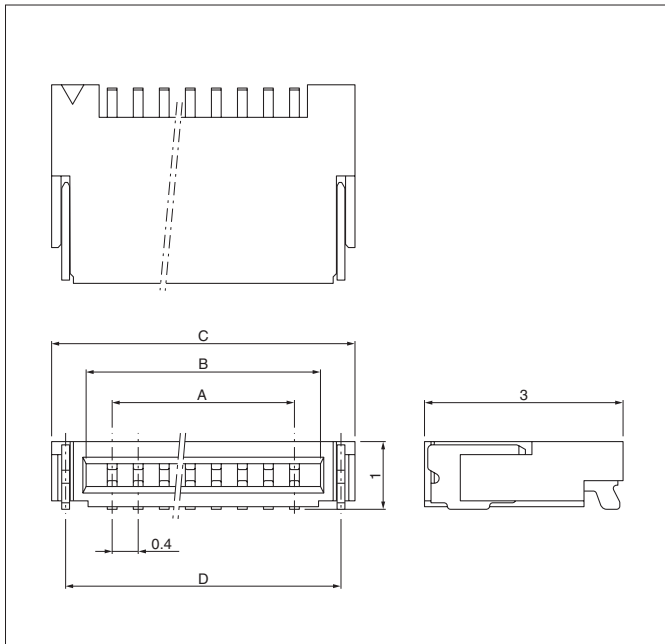
- Current rating: 0.5 A AC, DC
- Voltage rating: 50 V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 40 mΩ max.
After environmental tests/ 30 mΩ max.
(variation from initial value)
- Insulation resistance: 50 MΩ min.
- Withstanding voltage: Initial value; 200 VAC/minute
After humidity test; 100 VAC/minute
- Applicable FPC: Conductor pitch/ 0.4 mm
Conductor width/ 0.25 mm
Mating part thickness/ 0.3±0.03 mm

- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Compliant with RoHS.



FZA CONNECTOR

Connector



Circuits	Model No.	Dimensions (mm)				Q'ty / reel
		A	B	C	D	
5	05FZA-SM1-GAN-TB(HF)	1.6	2.4	3.4	3.03	7,000
6	06FZA-SM1-GAN-TB(HF)	2.0	2.8	3.8	3.43	7,000
8	06FZA-SM1-GAN-TB(HF)	2.8	3.6	4.6	4.23	7,000
10	10FZA-SM1-GAN-TB(HF)	3.6	4.4	5.4	5.03	7,000
12	12FZA-SM1-GAN-TB(HF)	4.4	5.2	6.2	5.83	7,000
13	13FZA-SM1-GAN-TB(HF)	4.8	5.6	6.6	6.23	7,000
14	14FZA-SM1-GAN-TB(HF)	5.2	6.0	7.0	6.63	7,000
16	16FZA-SM1-GAN-TB(HF)	6.0	6.8	7.8	7.43	7,000
20	20FZA-SM1-GAN-TB(HF)	7.6	8.4	9.4	9.03	7,000
24	24FZA-SM1-GAN-TB(HF)	9.2	10.0	11.0	10.63	7,000

Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated

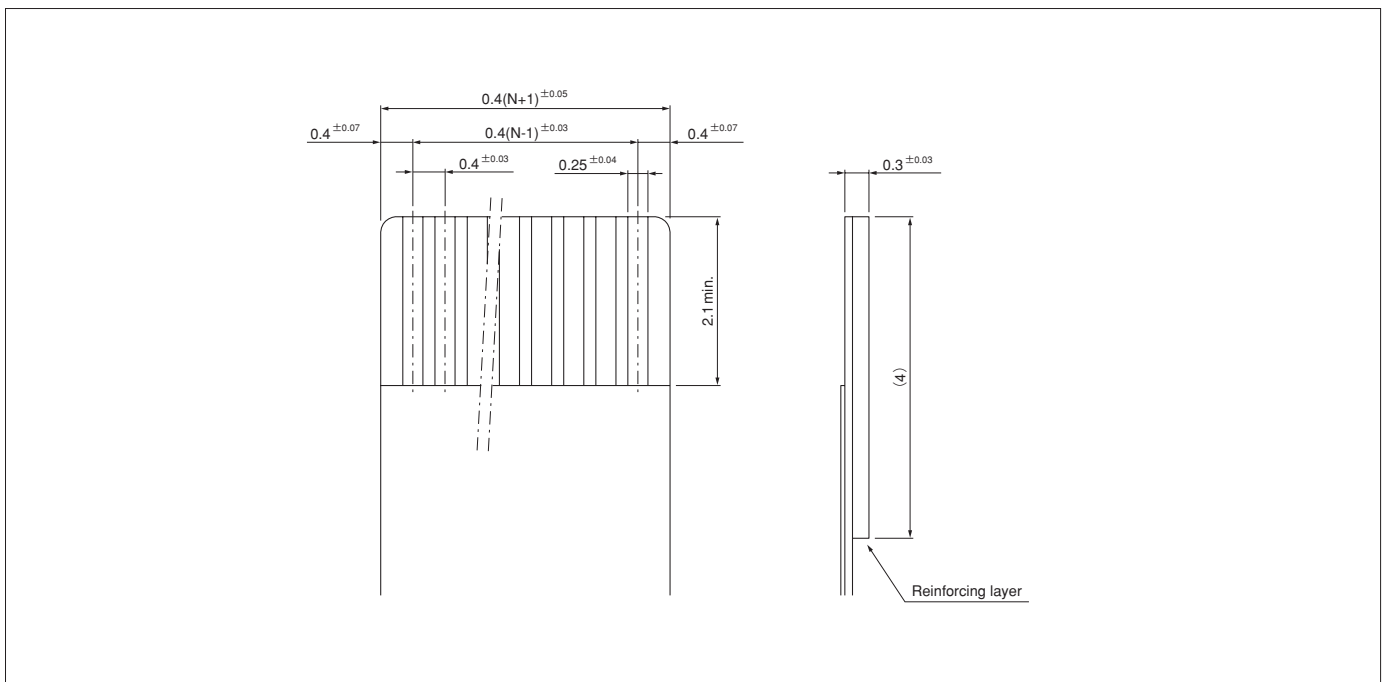
Housing: LCP, black

Reinforcement: Copper alloy, tin-plated

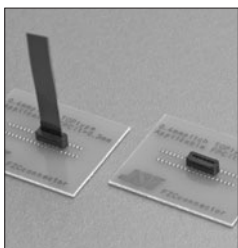
RoHS compliance This product displays (HF) on a label.

Note: This products listed above are supplied on embossed-tape.

Lead section dimensions of FPC

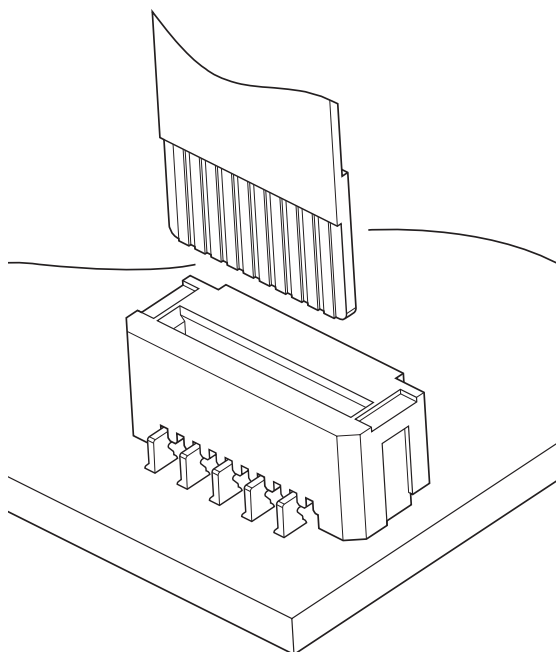


Note: N --- Number of circuits



FZC CONNECTOR

0.4mm pitch/Connectors for FPC



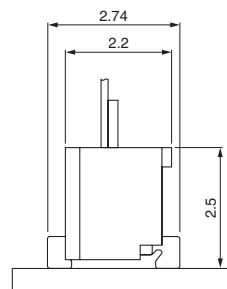
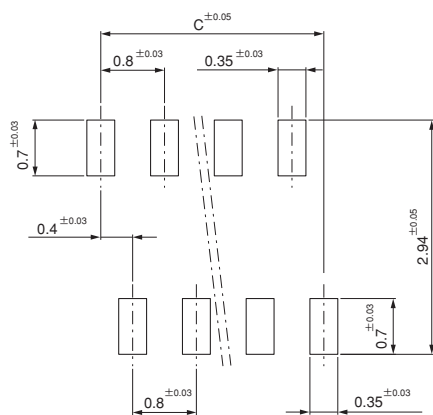
This is low profile 0.4mm pitch Non-ZIF top entry type connector with a mounting height of 2.5mm.

- ***Space saving type connector with 2.74mm depth***

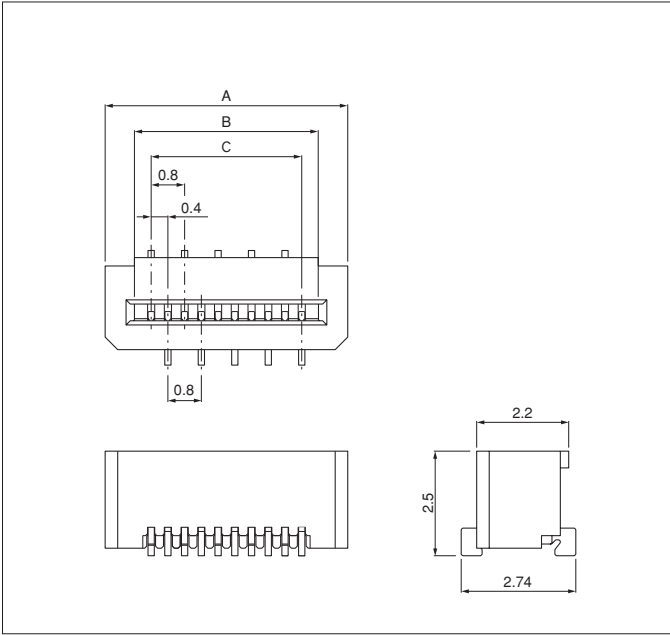
Specifications

- Current rating: 0.5 A AC, DC
- Voltage rating: 50 V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 40 mΩ max.
After environmental testing/ 30 mΩ max.
(variation from initial value)
- Insulation resistance: 500 MΩ min.
- Withstanding voltage: 200 VAC/minute
- Applicable FPC: Conductor pitch/ 0.4 mm
Conductor width/ 0.25 mm
Mating part thickness/ 0.3±0.03 mm

- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Compliant with RoHS.



Connector



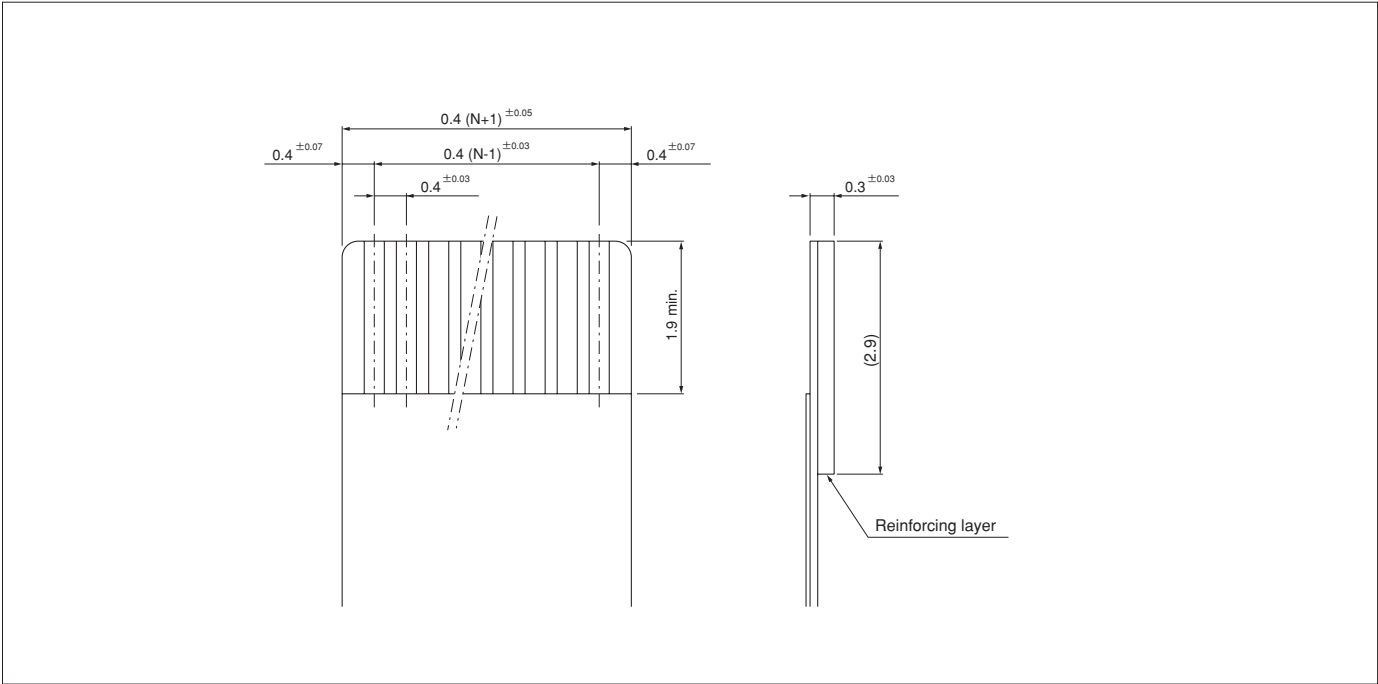
Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
10	10FZC-SM1-GAN-TB(HF)	5.8	4.4	3.6	4,000
13	13FZC-SM1-GAN-TB(HF)	7.0	5.6	4.8	4,000
16	16FZC-SM1-GAN-TB(HF)	8.2	6.8	6.0	4,000
20	20FZC-SM1-GAN-TB(HF)	9.8	8.4	7.6	4,000

Material and Finish

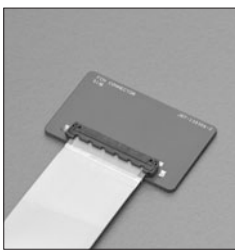
Contact: Copper alloy, nickel-undercoated, gold-plated
Housing: Heat resisting resin, black

RoHS compliance This product displays (HF) on a label.
Note: This products listed above are supplied on embossed-tape.

Lead section dimensions of FPC

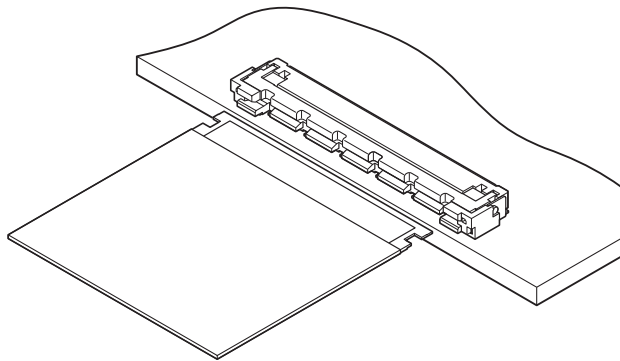


Note: N --- Number of circuits



FCH CONNECTOR

0.5mm pitch/Connectors for FFC



This is 0.5mm pitch connector for FPC which has the exclusive GND contact and enables high-speed transmission with connecting to the impedance controlled FPC. Adopting the auto lock mechanism that makes lock by performing the one action of snap-in-work, the workability improvement is realized.

- Auto lock mechanism with secure and good workability
- EMI countermeasure
- Compatibility with the VESA standard connector
- Correspond to V-by-One® HS which is one of the next-generation interface for flat-screen TV

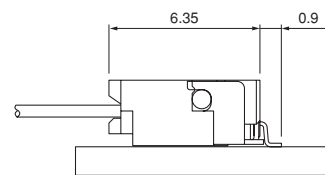
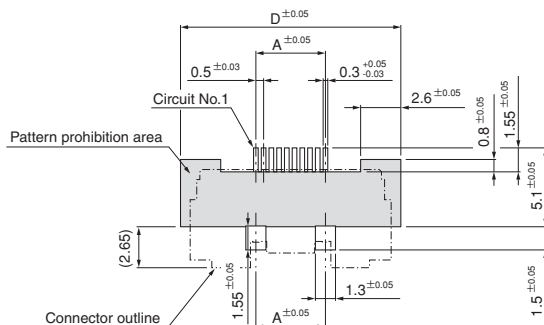
V-by-One is registered trademark of THine Electronics, Inc.

Specifications

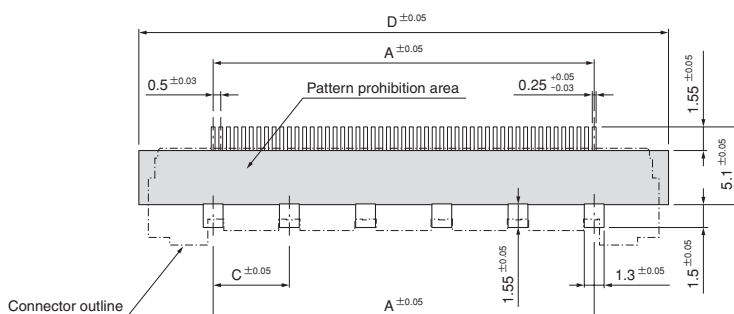
- Current rating: 0.3 A AC, DC
- Voltage rating: 50 V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 60 mΩ max.
After environmental tests/ 120 mΩ max.
- Insulation resistance: 500 MΩ min.
- Withstanding voltage: 200 VAC/minute
- Applicable FFC: Conductor pitch/ 0.5 mm
Conductor width/ 0.32 mm
Mating part thickness/ 0.33^{+0.03}_{-0.01} mm

- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Compliant with RoHS.

<10, 15, 20 circuits>



<41, 51 circuits>



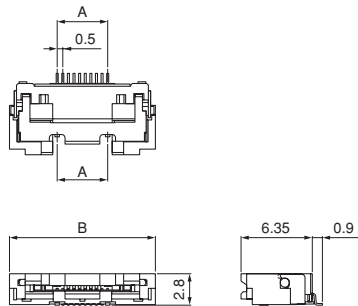
Circuits	Dimensions (mm)		
	A	C	D
10	4.5	—	14.25
15	7.0	—	16.75
20	9.5	—	19.25
41	20.0	4.0	29.75
51	25.0	5.0	34.75

Note: 1. The above figure is the figure viewed from the connector mounting side.

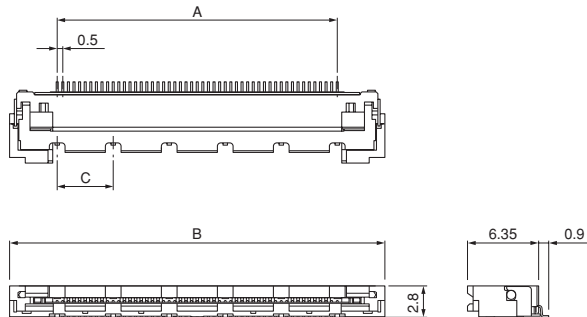
2. Tolerances are non-cumulative: ±0.03mm for all centers. The dimensions above should serve as a guideline. Contact JST for details.

Connector

<10, 15, 20 circuits>



<41, 51 circuits>



Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
10	10FCH-RSM1-GA-TB	4.5	13.0	—	2,000
15	15FCH-RSM1-GA-TB	7.0	15.5	—	2,000
20	20FCH-RSM1-GA-TB	9.5	18.0	—	2,000
41	41FCH-RSM1-GA-TB	20.0	28.5	4.0	2,000
51	51FCH-RSM1-GA-TB	25.0	33.5	5.0	2,000

Material and Finish

Signal contact: Copper alloy, nickel-undercoated, selective gold-plated

Ground contact: Copper alloy, tin-plated

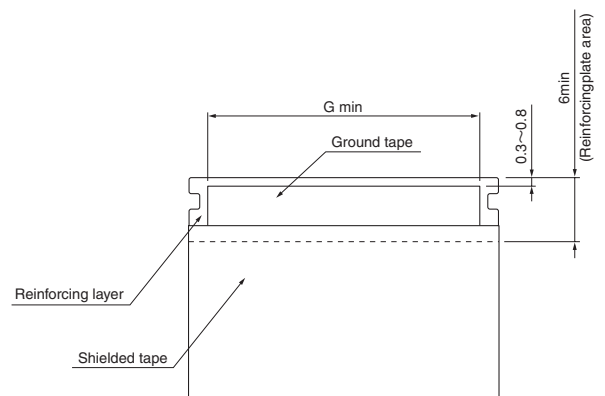
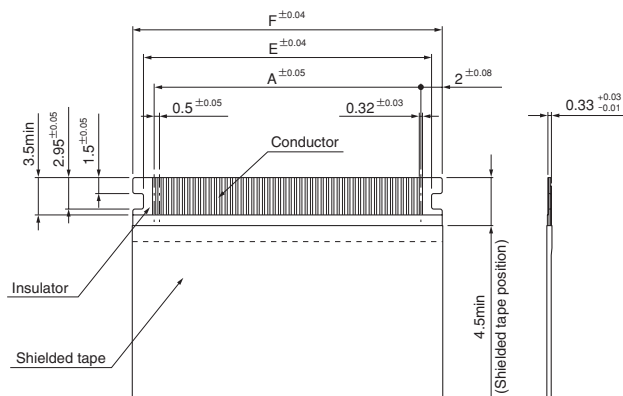
Socket housing: Heat resisting resin, UL94V-0, black

Cover housing: Heat resisting resin, UL94V-0, black

RoHS compliance This product displays (LF)(SN) on a label.

Note: The products listed above are supplied on embossed-tape.

Lead section dimensions of FFC

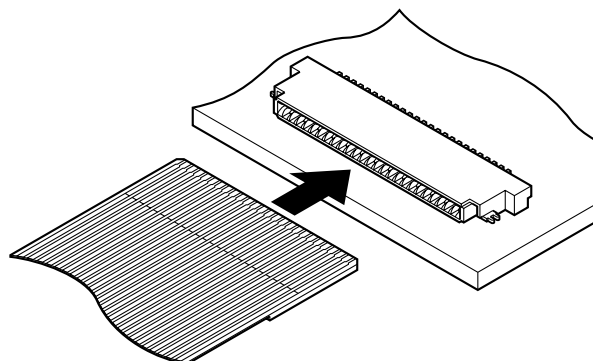


Circuits	Dimensions (mm)			
	A	C	D	D
10	4.5	6.5	8.5	5.0
15	7.0	9.0	11.0	7.5
20	9.5	11.5	13.5	10.0
41	20.0	22.0	24.0	20.5
51	25.0	27.0	29.0	25.5



FH CONNECTOR

0.5mm pitch/Connectors for FPC



The large miniaturization at pitch direction and depth direction and low profile as 1.2mm mounting height are realized. FH connector is miniaturized and space saving Non-ZIF type connector for FPC.

- **Double-sided contact**
- **Applicable to standard FPC**

Specifications

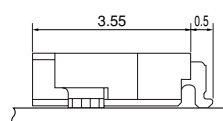
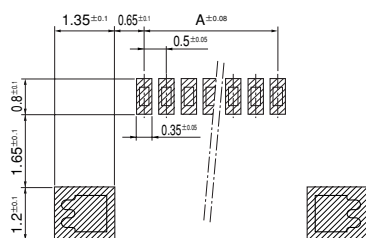
- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/40m Ω max.
After environmental testing/20m Ω max.
(variation from initial value)
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/0.5mm
Conductor width/0.35mm
Mating part thickness/0.3 \pm 0.05mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

Recognized E60389

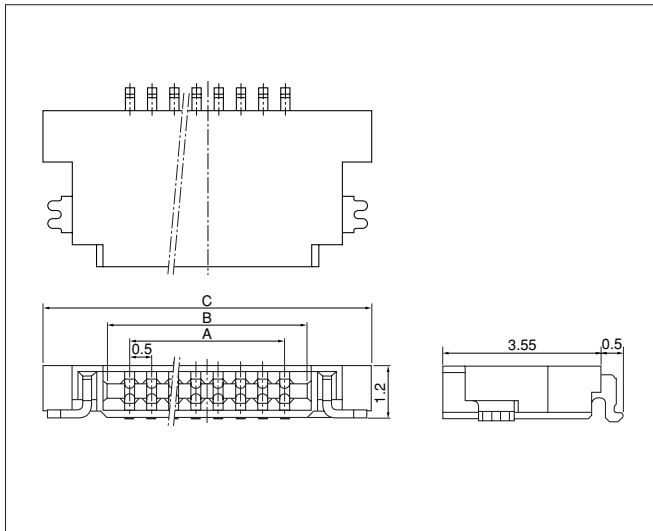
Certified LR20812

PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ± 0.08 mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Connector



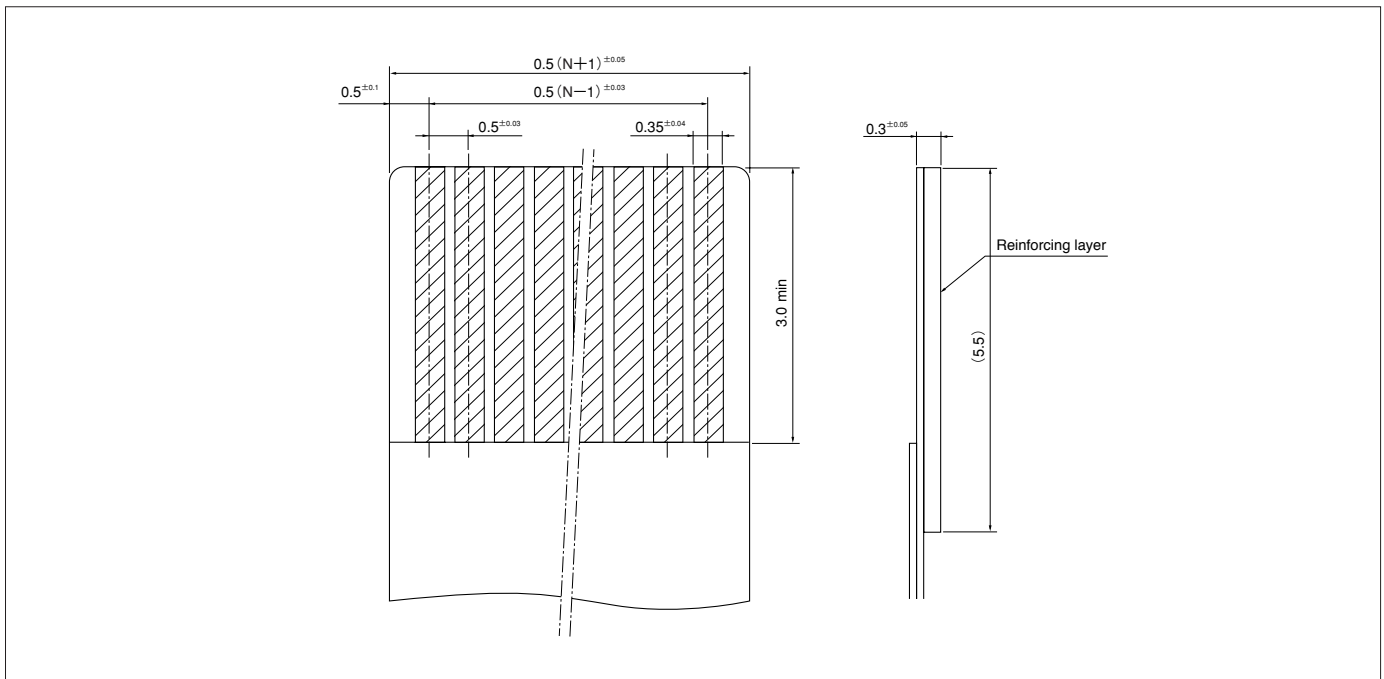
Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
5	05FH-SM1-TB	2.0	3.0	5.9	4,000
6	06FH-SM1-TB	2.5	3.5	6.4	4,000
7	07FH-SM1-TB	3.0	4.0	6.9	4,000
8	08FH-SM1-TB	3.5	4.5	7.4	4,000
10	10FH-SM1-TB	4.5	5.5	8.4	4,000
11	11FH-SM1-TB	5.0	6.0	8.9	4,000
12	12FH-SM1-TB	5.5	6.5	9.4	4,000
14	14FH-SM1-TB	6.5	7.5	10.4	4,000
16	16FH-SM1-TB	7.5	8.5	11.4	4,000
18	18FH-SM1-TB	8.5	9.5	12.4	4,000
20	20FH-SM1-TB	9.5	10.5	13.4	4,000
25	25FH-SM1-TB	12.0	13.0	15.9	4,000

Material and Finish

Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Housing: LCP, UL94V-0
Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

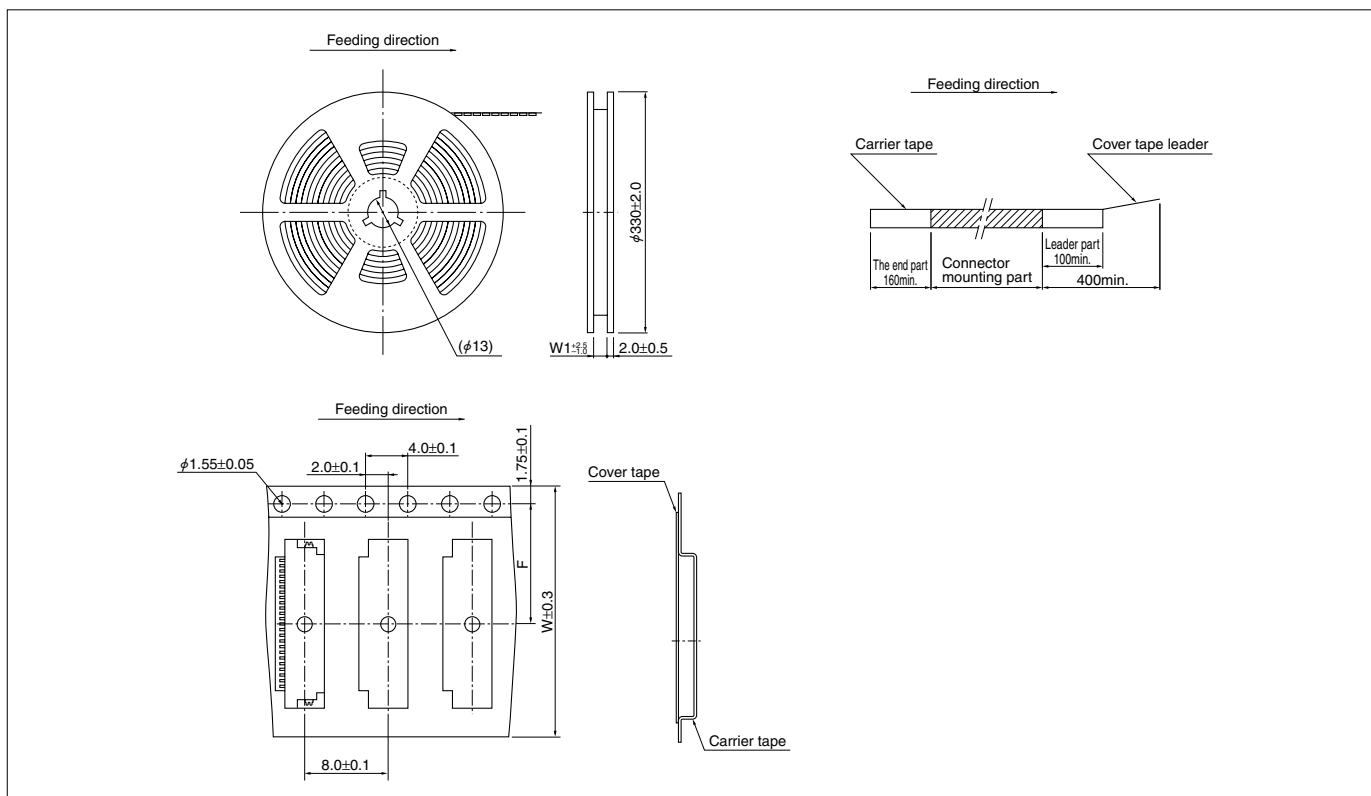
Lead section dimensions of FPC



Note: N --- Number of circuits

FH CONNECTOR

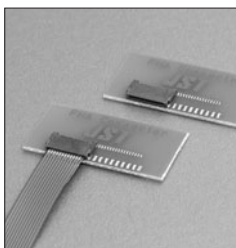
Taping specifications



Circuits	Taping dimensions (mm)		Reel dimensions (mm)	Q'ty / reel
	F	W	W1	
5 to 12	7.5	16.0	17.5	4,000
14 to 25	11.5	24.0	25.5	4,000

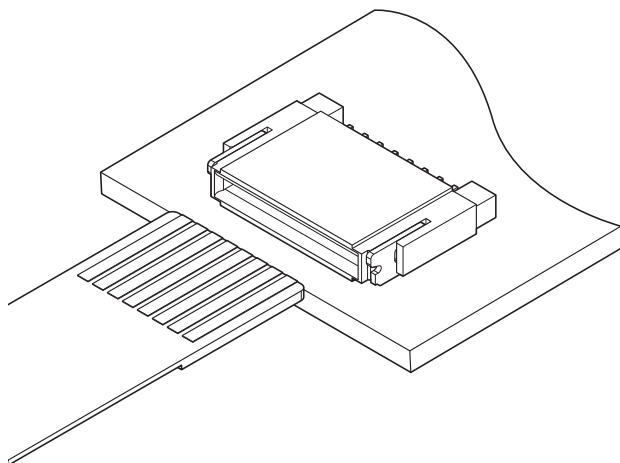
Note:

- Specifications conform to JIS C 0806. The tape width, connector loading recess square hole dimensions, etc. are determined by the number of circuits and external shape of the connector to be loaded.
- Specifications are subject to change without prior notice.



FHA CONNECTOR

0.5mm pitch/Connectors for FPC

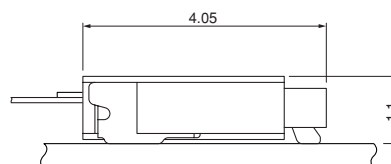
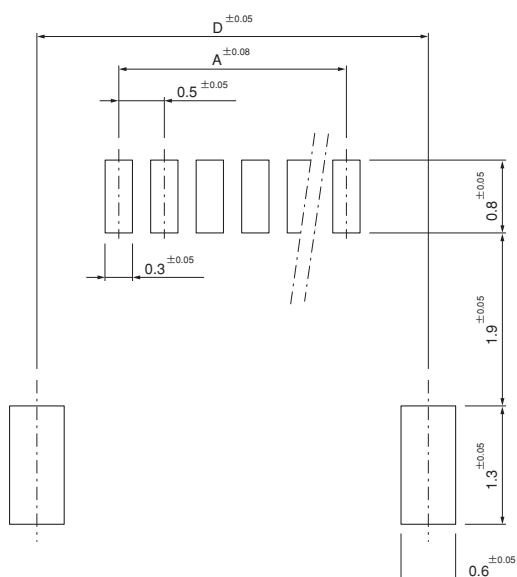


***This FHA connector is a renewal product of current FHJ connector.
This is Non-ZIF type connector for the 0.3mm thickness FPC with a mounting height of 1.1mm, small and space saving type.***

Specifications

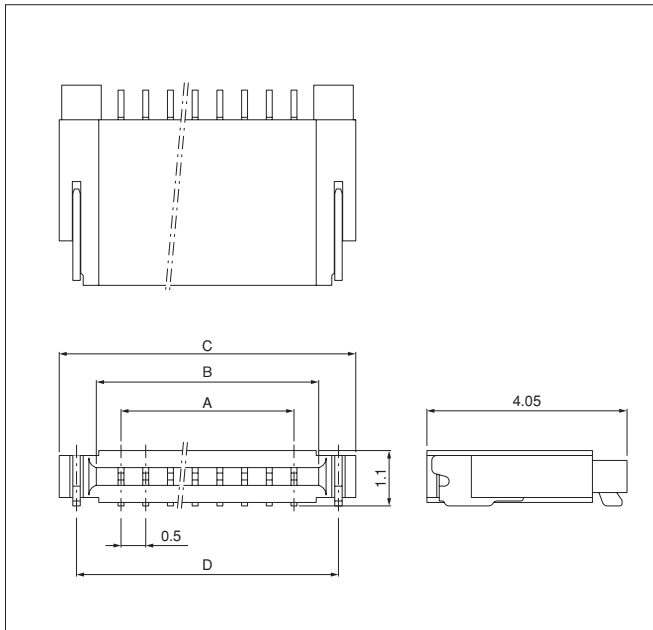
- Current rating: 0.5 A AC, DC
- Voltage rating: 50 V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 40 mΩ max.
After environmental tests/ 30 mΩ max.
(variation from initial value)
- Insulation resistance: 50 MΩ min.
- Withstanding voltage: 200 VAC/minute
- Applicable FPC: Conductor pitch/ 0.5 mm
Conductor width/ 0.35 mm
Mating part thickness/ 0.3±0.05 mm

- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Compliant with RoHS.



FHA CONNECTOR

Connector



Circuits	Model No.	Dimensions (mm)				Q'ty / reel
		A	B	C	D	
5	05FHA-SM1-GAN-ETB(HF)	2.0	3.0	4.5	3.8	7,000
6	06FHA-SM1-GAN-ETB(HF)	2.5	3.5	5.0	4.3	7,000
8	08FHA-SM1-GAN-ETB(HF)	3.5	4.5	6.0	5.3	7,000
9	09FHA-SM1-GAN-ETB(HF)	4.0	5.0	6.5	5.8	7,000
10	10FHA-SM1-GAN-ETB(HF)	4.5	5.5	7.0	6.3	7,000
12	12FHA-SM1-GAN-ETB(HF)	5.5	6.5	8.0	7.3	7,000
14	14FHA-SM1-GAN-ETB(HF)	6.5	7.5	9.0	8.3	7,000
16	16FHA-SM1-GAN-ETB(HF)	7.5	8.5	10.0	9.3	7,000
18	18FHA-SM1-GAN-ETB(HF)	8.5	9.5	11.0	10.3	7,000
20	20FHA-SM1-GAN-ETB(HF)	9.5	10.5	12.0	11.3	7,000
22	22FHA-SM1-GAN-ETB(HF)	10.5	11.5	13.0	12.3	7,000
24	24FHA-SM1-GAN-ETB(HF)	11.5	12.5	14.0	13.3	7,000
26	26FHA-SM1-GAN-ETB(HF)	12.5	13.5	15.0	14.3	7,000
28	28FHA-SM1-GAN-ETB(HF)	13.5	14.5	16.0	15.3	7,000
30	30FHA-SM1-GAN-ETB(HF)	14.5	15.5	17.0	16.3	7,000

Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated

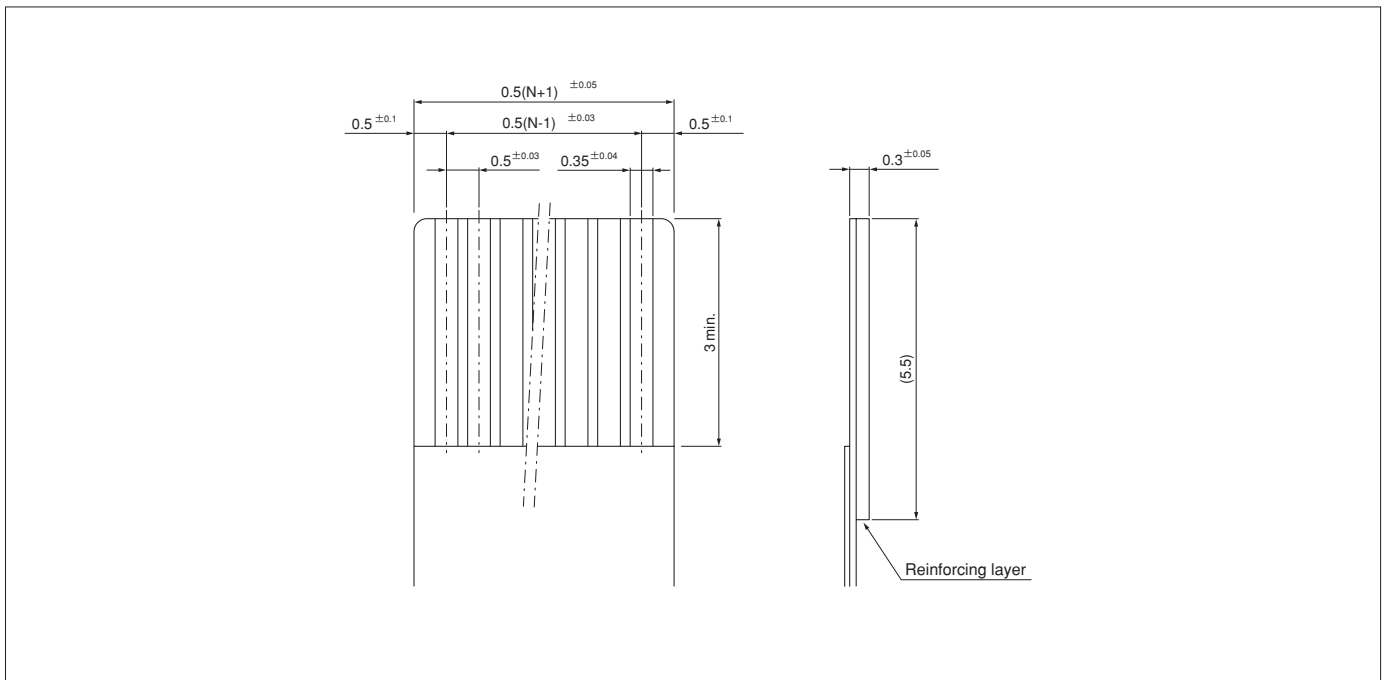
Housing: LCP, black

Reinforcement: Copper alloy, tin-plated

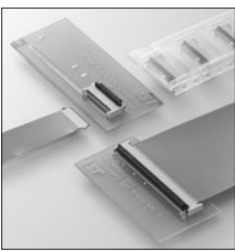
RoHS compliance This product displays (HF) on a label.

Note: This products listed above are supplied on embossed-tape.

Lead section dimensions of FPC

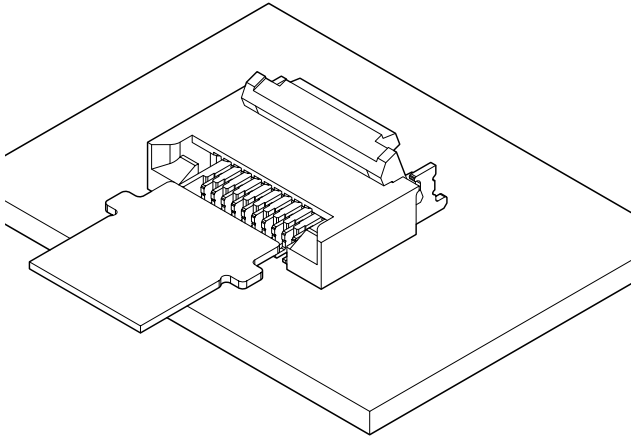


Note: N --- Number of circuits



FHH CONNECTOR

0.5mm pitch/Connectors for FPC

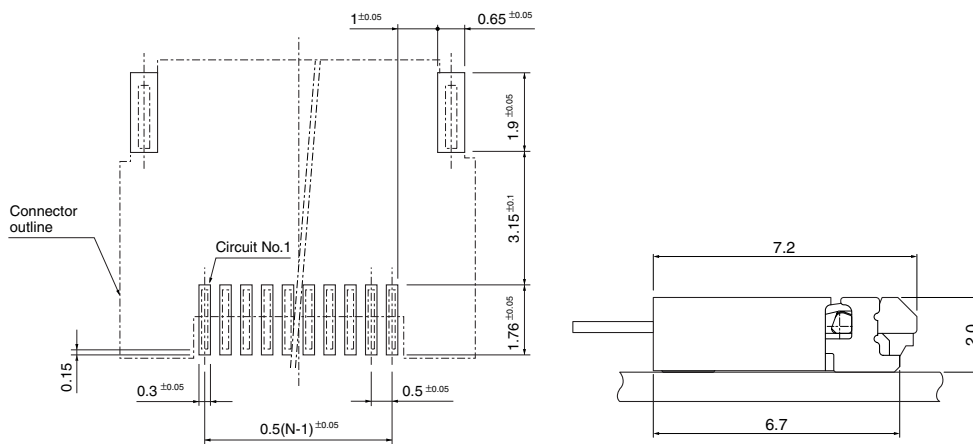


This is 2.0mm height connector with the double-sided contact for FPC. As FPC with protrusions is used for this FHH connector, prevention of incomplete insertion and mis-insertion are realized and connection reliability is improved.

Specifications

- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/70mΩ max.
After environmental testing/60mΩ max.
(variation from initial value)
- Insulation resistance: 500MΩ min.
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/0.5mm
Conductor width/0.35mm
Mating part thickness/0.3±0.03mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

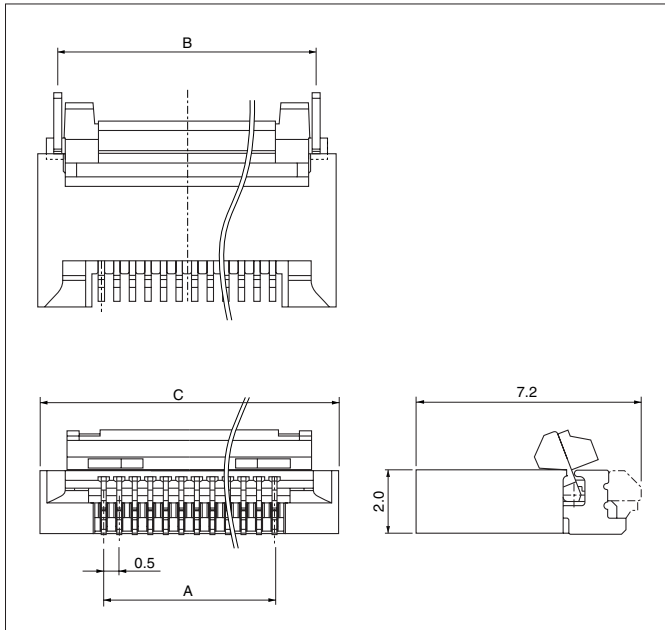
PC board layout and Assembly layout



Note: N --- Number of circuits

FHH CONNECTOR

Connector



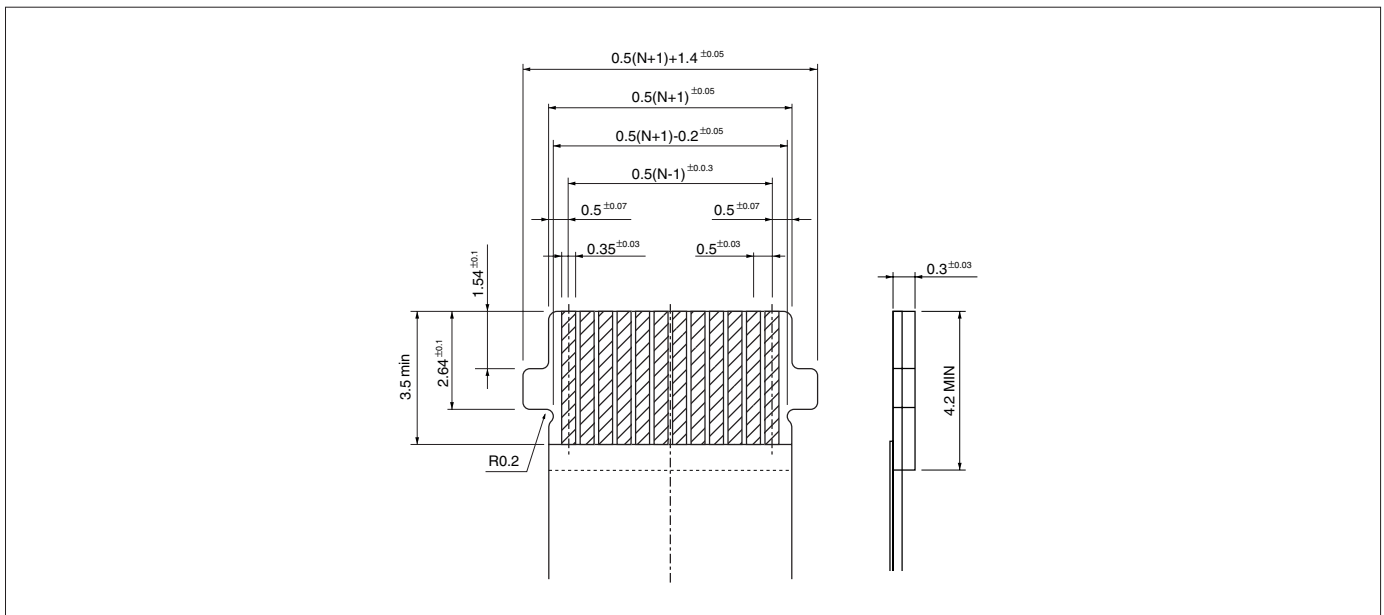
Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
10	10FHH-SM1-GAN-TF	4.5	7.4	8.6	2,000
20	20FHH-SM1-GAN-TF	9.5	12.4	13.6	2,000
30	30FHH-SM1-GAN-TF	14.5	17.4	18.6	2,000
40	40FHH-SM1-GAN-TF	19.5	22.4	23.6	2,000
50	50FHH-SM1-GAN-TF	24.5	27.4	28.6	2,000
60	60FHH-SM1-GAN-TF	29.5	32.4	33.6	2,000

Material and Finish

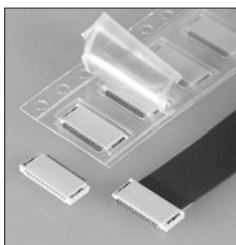
Contact: Copper alloy, nickel-undercoated, gold-plated (nickel-stripe)
 Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
 Housing: Heat resisting resin, UL94V-0, natural
 Cover: Heat resisting resin, UL94V-0, black

RoHS compliance This product displays (LF)(SN) on a label.
 Note: This products listed above are supplied on embossed-tape.

Lead section dimensions of FPC

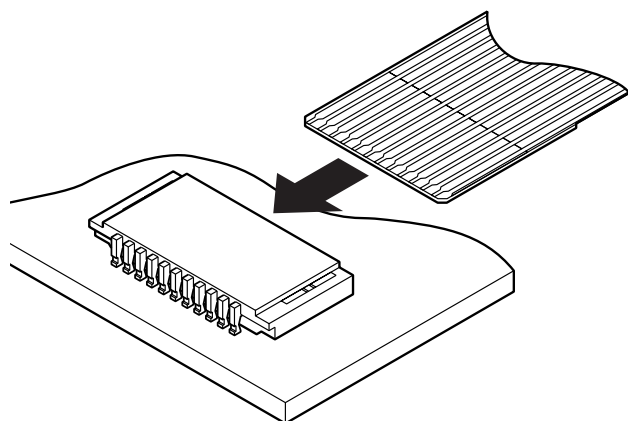


Note: N --- Number of circuits



FHJ CONNECTOR

0.5mm pitch/Connectors for FPC



Non-ZIF type low profile of 1.2mm mounting height. 0.3mm thick standard type FPC is applicable.

- Compact mounting space
- Heat resisting design suitable for surface mounting

Specifications

- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/40m Ω max.
After environmental testing/20m Ω max.
(variation from initial value)
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/0.5mm
Conductor width/0.35mm
Mating part thickness/0.3 \pm 0.05mm

Note: FPC to be actually used should be checked for applicability.

* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

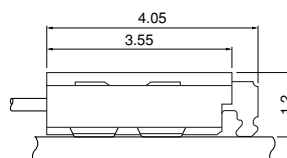
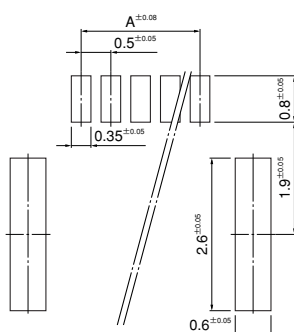
* Contact JST for details.

Standards

Ⓜ Recognized E60389

Ⓢ Certified LR20812

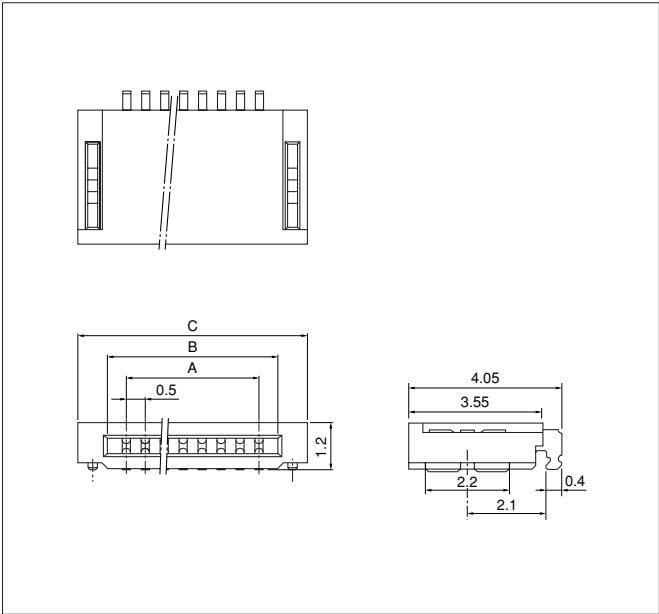
PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: \pm 0.08mm for all centers.

2. The dimensions above should serve as a guide line. Contact JST for details.

Connector



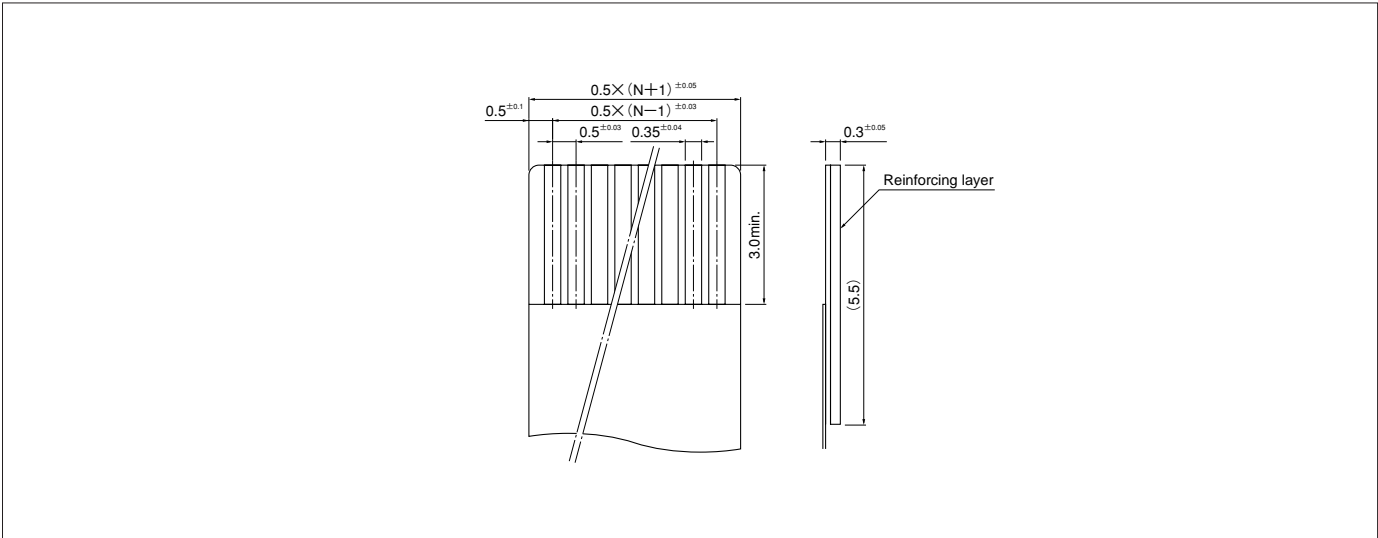
Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
5	05FHJ-SM1-TB	2.0	3.0	4.6	4,000
6	06FHJ-SM1-TB	2.5	3.5	5.1	4,000
7	07FHJ-SM1-TB	3.0	4.0	5.6	4,000
8	08FHJ-SM1-TB	3.5	4.5	6.1	4,000
10	10FHJ-SM1-TB	4.5	5.5	7.1	4,000
11	11FHJ-SM1-TB	5.0	6.0	7.6	4,000
12	12FHJ-SM1-TB	5.5	6.5	8.1	4,000
14	14FHJ-SM1-TB	6.5	7.5	9.1	4,000
16	16FHJ-SM1-TB	7.5	8.5	10.1	4,000
18	18FHJ-SM1-TB	8.5	9.5	11.1	4,000
20	20FHJ-SM1-TB	9.5	10.5	12.1	4,000
21	21FHJ-SM1-TB	10.0	11.0	12.6	4,000
24	24FHJ-SM1-TB	11.5	12.5	14.1	4,000

Material and Finish

Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Housing: LCP, UL94V-0
Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

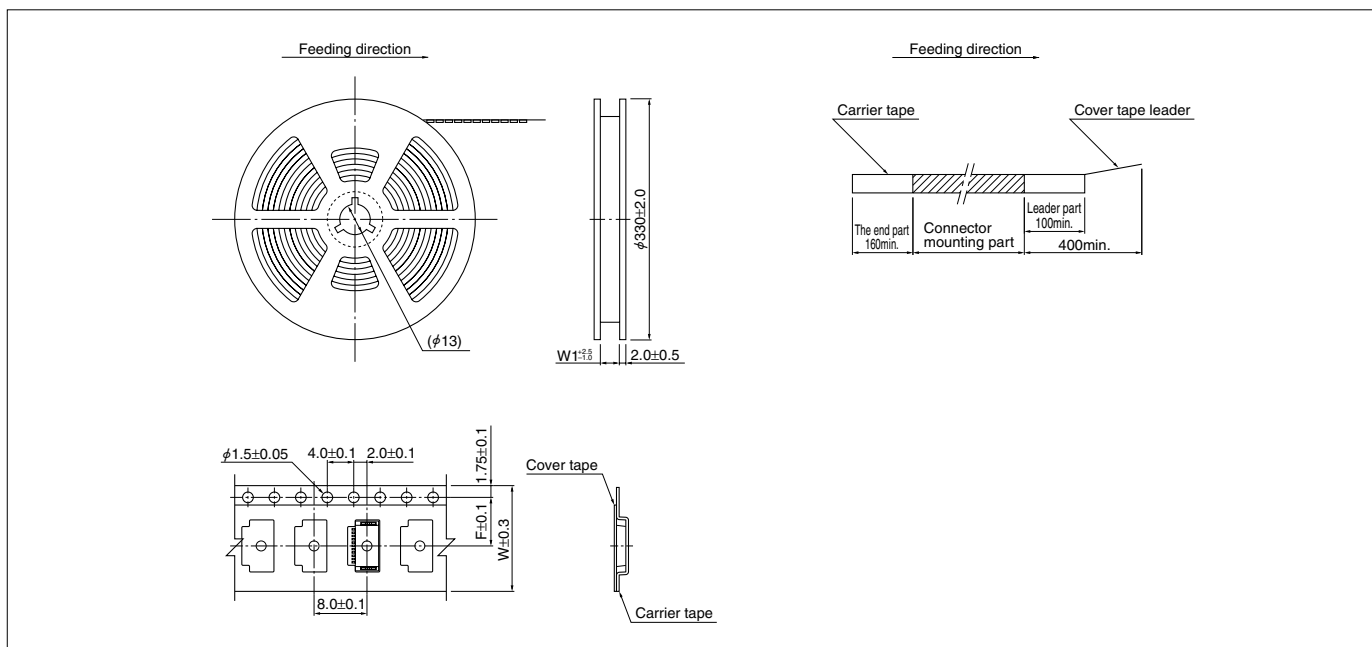
Lead section dimensions of FPC



Note: N --- Number of circuits

FHJ CONNECTOR

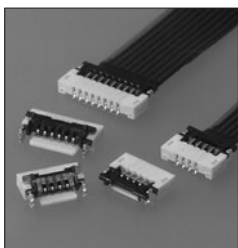
Taping specifications



Circuits	Taping dimensions (mm)		Reel dimensions (mm)	Qty / reel
	F	W	W1	
5 to 6	5.5	12	13.5	4,000
7 to 14	7.5	16	17.5	4,000
16 to 24	11.5	24	25.5	4,000

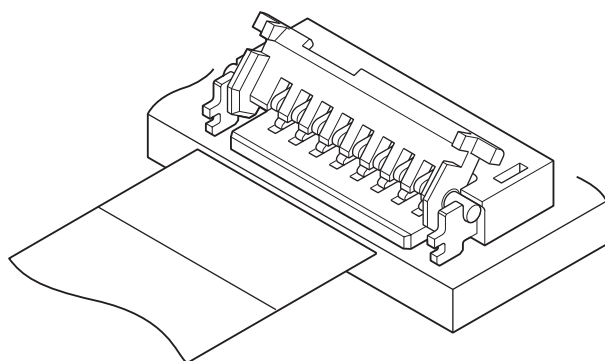
Note:

- Specifications conform to JIS C 0806. The tape width, connector recess hole dimensions, etc. are determined by the number of circuits and external shape of the connector to be loaded.
- Specifications are subject to change without prior notice.



FHS CONNECTOR

0.5mm pitch/Connectors for FPC



FHS connector is a space-saving type connector for FPC with 3.1mm depth, though it is low profile of 0.9mm mounting height. 0.2mm thick standard FPC.

- **Space saving design**
- **Heat resisting design suitable for surface mounting**
- **Self-lock mechanism enables the cover to close by one-touch operation**

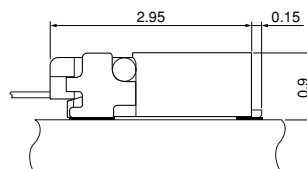
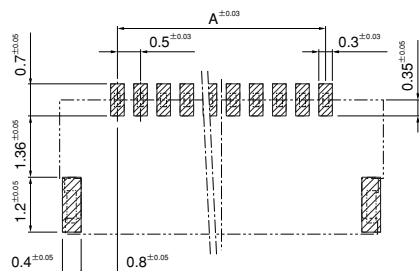
Specifications

- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/60m Ω max.
After environmental testing/60m Ω max.
(variation from initial value)
- Insulation resistance: 800M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/0.5mm
Conductor width/0.35mm
Mating part thickness/0.2 \pm 0.03mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

Recognized E60389

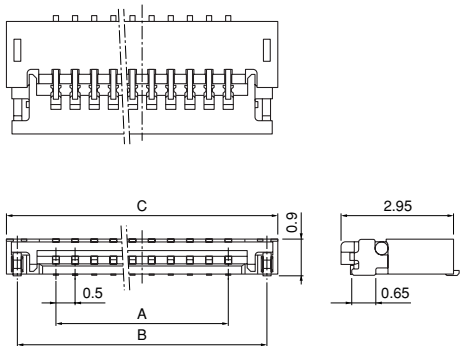
PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ± 0.03 mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

FHS CONNECTOR

Connector



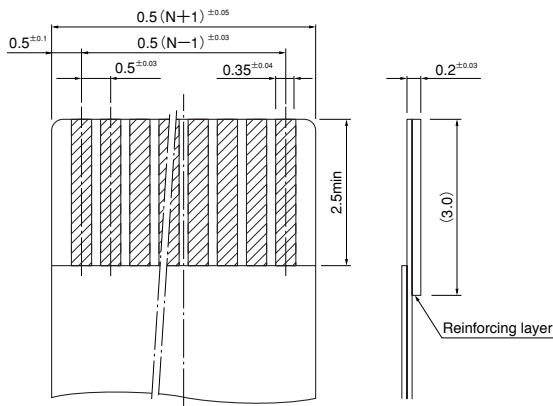
Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
3	03FHS-RSM1-GAN-TB	1.0	3.0	3.56	6,000
4	04FHS-RSM1-GAN-TB	1.5	3.5	4.06	6,000
6	06FHS-RSM1-GAN-TB	2.5	4.5	5.06	6,000
8	08FHS-RSM1-GAN-TB	3.5	5.5	6.06	6,000
9	09FHS-RSM1-GAN-TB	4.0	6.0	6.56	6,000

Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated (nickel-stripe)
Housing: LCP, UL94V-0
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)
Cover: PPS, UL94V-0

RoHS compliance This product displays (LF)(SN) on a label.
This products listed above are supplied on embossed-tape.

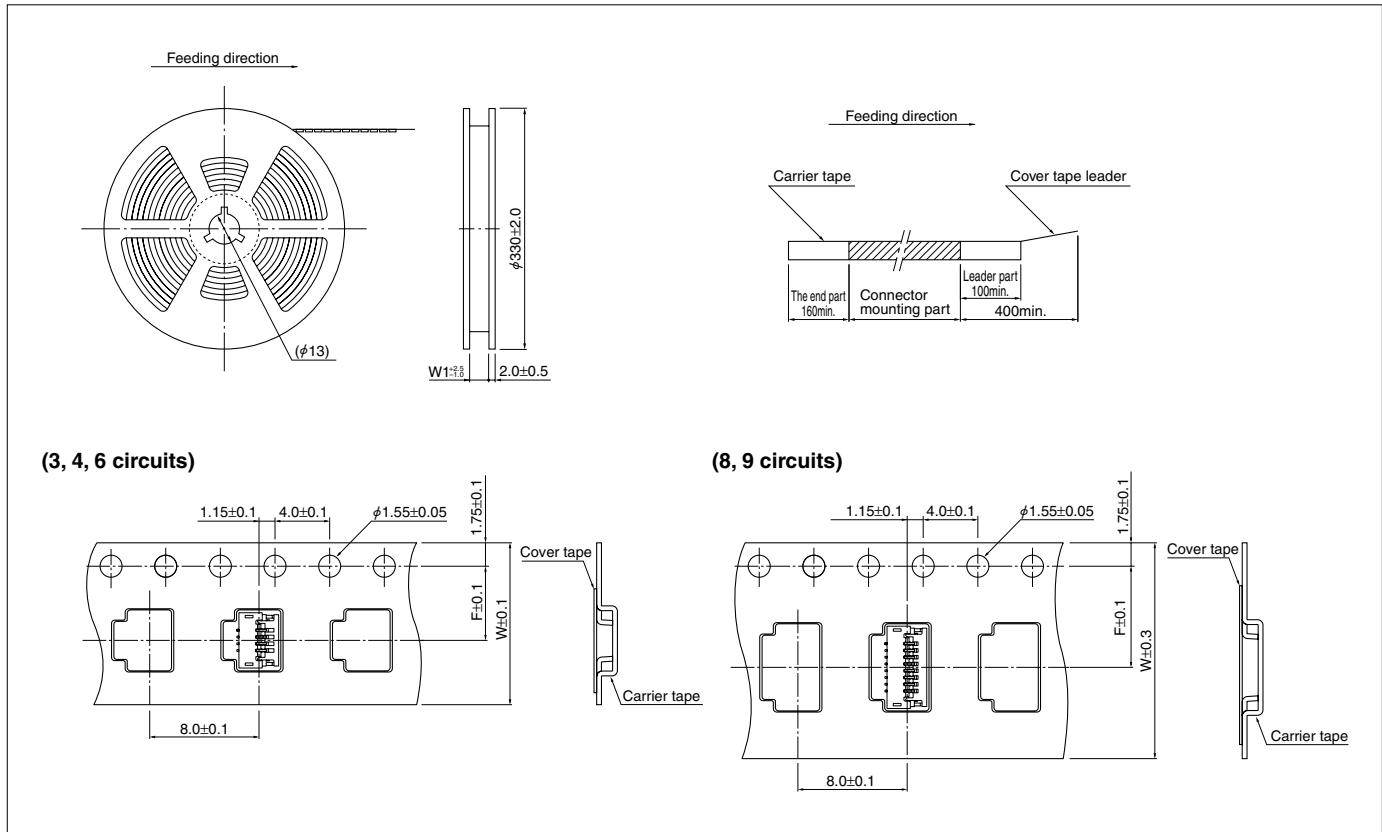
Lead section dimensions of FPC



Note: N --- Number of circuits

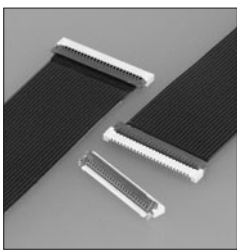
FHS CONNECTOR

Taping specifications



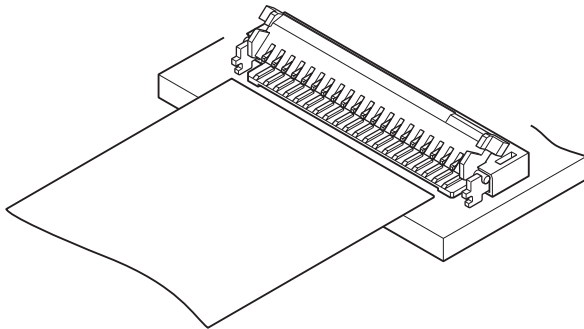
Circuits	Taping dimensions (mm)		Reel dimensions (mm)	Q'ty / reel
	F	W	W1	
3, 4, 6	5.5	12.0	13.5	6,000
8, 9	7.5	16.0	17.5	6,000

Note: 1. Specifications conform to JIS C 0806. The tape width, connector loading recess square hole dimensions, etc. are determined by the number of circuits and external shape of the connector to be loaded.
2. Specifications are subject to change without prior notice.



FHSY CONNECTOR

0.5mm pitch/Connectors for FPC



This ZIF (zero insertion force) type flip lock FPC connector achieves a low profile feature of a 0.9mm mounting height despite the thickness of the FPC being 0.3mm.

- Space saving design
- Heat resisting design suitable for surface mounting
- Embossed tape for automatic mounting

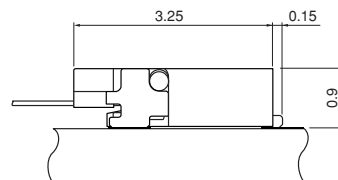
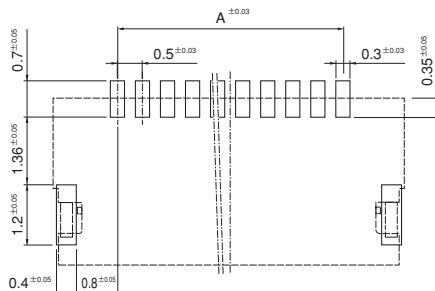
Specifications

- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/60m Ω max.
After environmental testing/60m Ω max.
(variation from initial value)
- Insulation resistance: 800M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/0.5mm
Conductor width/0.35mm
Mating part thickness/0.3 \pm 0.05mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

Ⓜ Recognized E60389

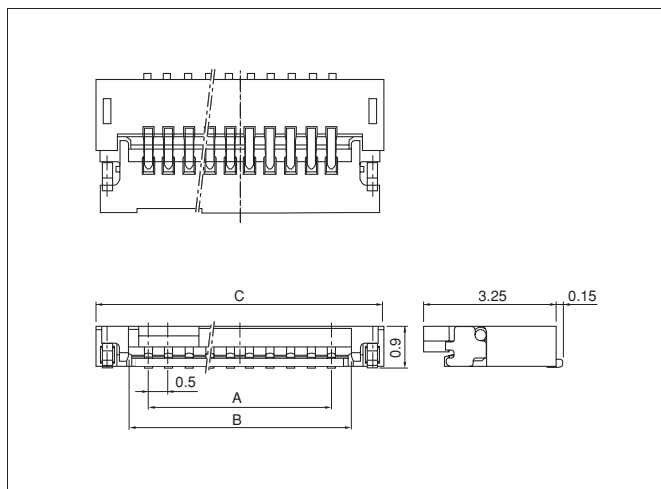
PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ± 0.03 mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

FHSY CONNECTOR

Connector



Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
5	05FHSY-RSM1-GAN-TB	2.0	3.0	4.56	3,000
6	06FHSY-RSM1-GAN-TB	2.5	3.5	5.06	3,000
11	11FHSY-RSM1-GAN-TB	5.0	6.0	7.56	3,000
12	12FHSY-RSM1-GAN-TB	5.5	6.5	8.06	3,000
16	16FHSY-RSM1-GAN-TB	7.5	8.5	10.06	3,000
18	18FHSY-RSM1-GAN-TB	8.5	9.5	11.06	3,000
20	20FHSY-RSM1-GAN-TB	9.5	10.5	12.06	3,000
24	24FHSY-RSM1-GAN-TB	11.5	12.5	14.06	3,000
28	28FHSY-RSM1-GAN-TB	13.5	14.5	16.06	3,000

Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated (nickel-stripe)

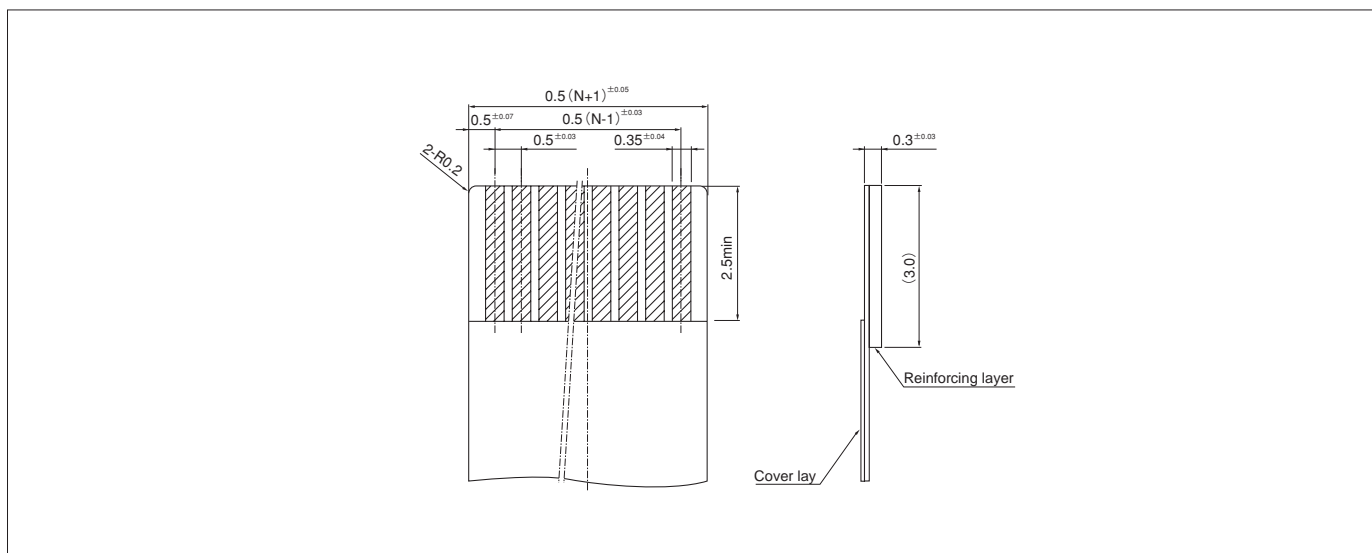
Cover: Heat resisting resin, UL94V-0

Housing: Heat resisting resin, UL94V-0

Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

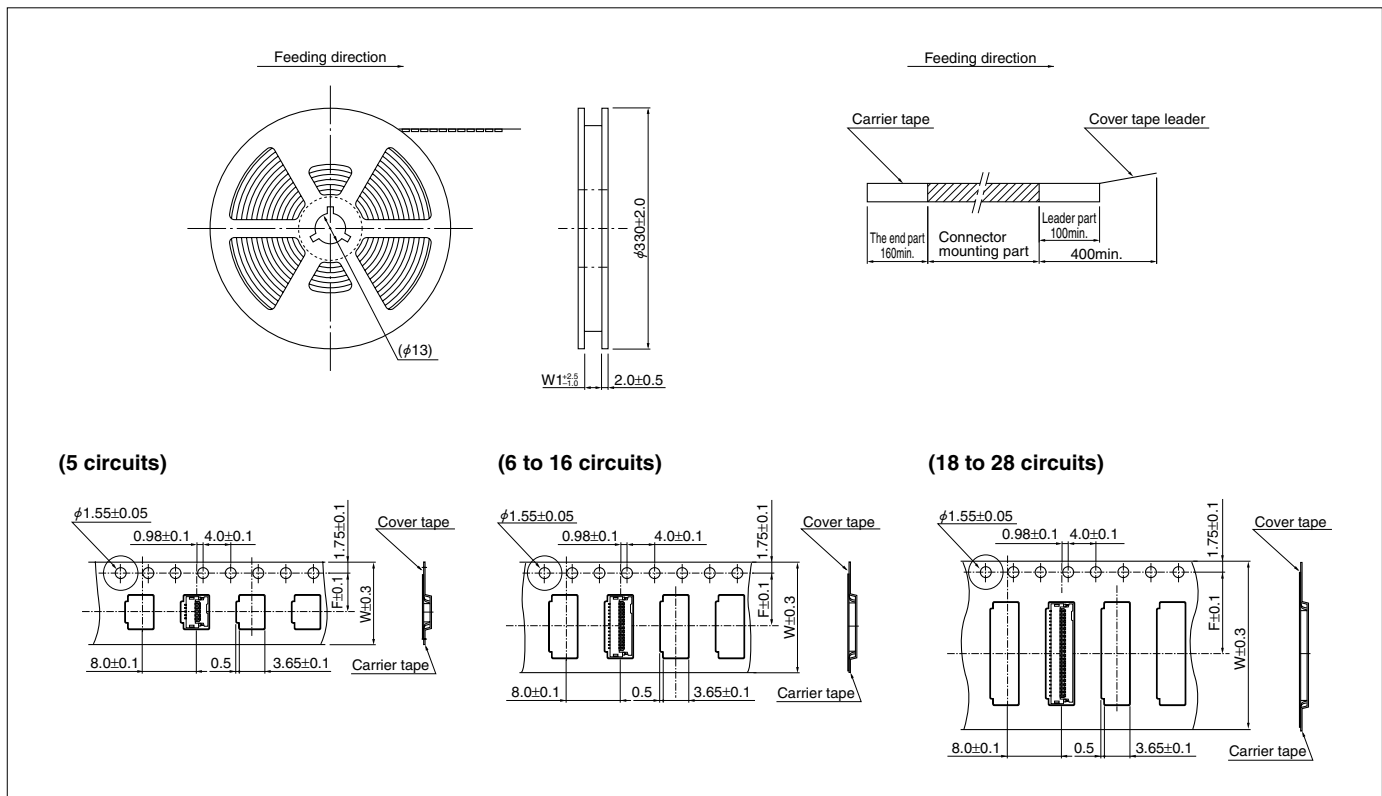
Lead section dimensions of FPC



Note: N --- Number of circuits

FHSY CONNECTOR

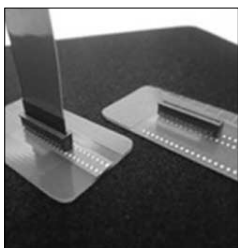
Taping specifications



Circuits	Taping dimensions (mm)		Reel dimensions (mm)	Q'ty / reel
	F	W	W1	
5	5.5	12.0	17.5	3,000
6 to 16	7.5	16.0	17.5	3,000
18 to 28	11.5	24.0	25.5	3,000

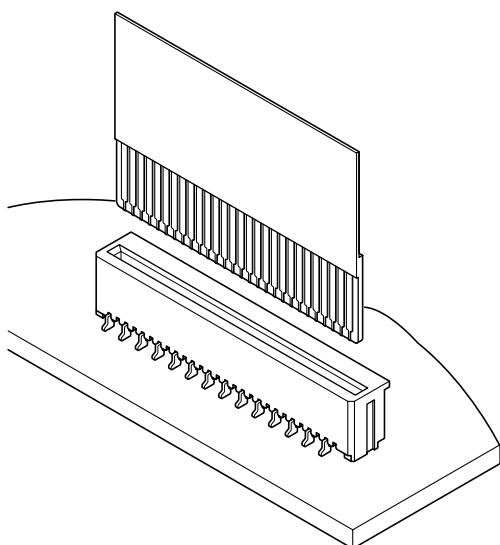
Note:

- Specifications conform to JIS C 0806. The tape width, connector loading recess square hole dimensions, etc. are determined by the number of circuits and external shape of the connector to be loaded.
- Specifications are subject to change without prior notice.



FHT CONNECTOR

0.5mm pitch/Connectors for FFC and FPC



- **Adopting Non-ZIF type**
(engagement can be done by single action.)
- **Achieving Low profile and Space saving**
- **Dealing with Halogen-free**

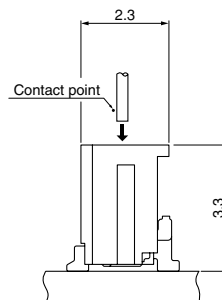
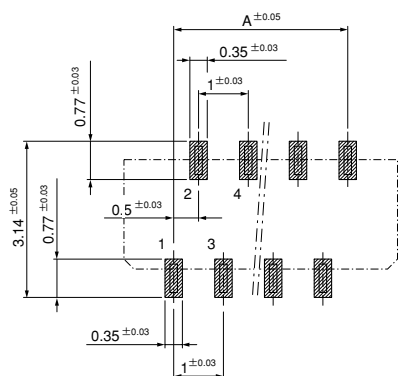
Specifications

- Current rating: 0.5 A AC, DC
- Voltage rating: 50 V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 40 mΩ max.
After environmental tests/ 60 mΩ max.
- Insulation resistance: 50 MΩ min.
- Withstanding voltage: 200 VAC/minute
- Applicable FFC: Conductor pitch/ 0.5 mm
Conductor width/ 0.3 mm
Mating part thickness/ 0.3±0.05 mm

- * Confirm the applicability the connector with the FPC used, before use.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Compliant with RoHS.

Standards

Recognized E60389

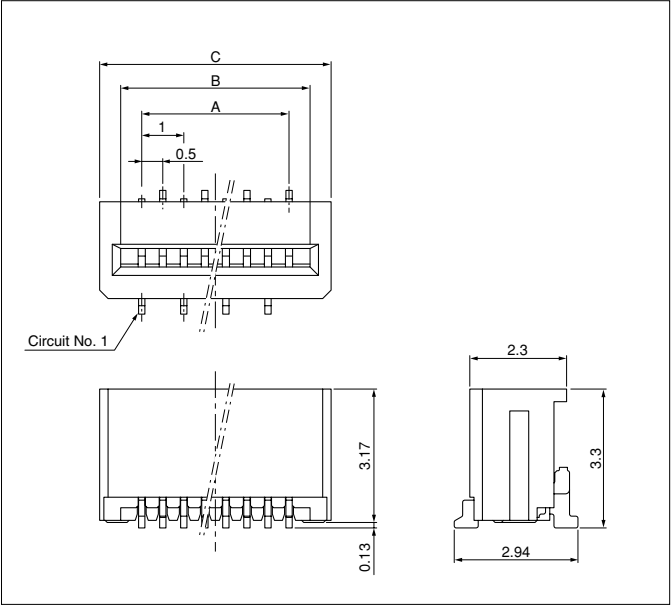


Note: 1. The above figure is the figure viewed from the connector mounting side.

2. Tolerances are non-cumulative: ±0.05 mm for all centers. The dimensions above should serve as a guideline. Contact JST for details.

FHT CONNECTOR

Connector



Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
12	12FHT-SMR-GAN-TF(HF)	5.5	6.5	7.5	3,000
14	14FHT-SMR-GAN-TF(HF)	6.5	7.5	8.5	3,000
20	20FHT-SMR-GAN-TF(HF)	9.5	10.5	11.5	3,000
22	22FHT-SMR-GAN-TF(HF)	10.5	11.5	12.5	3,000
24	24FHT-SMR-GAN-TF(HF)	11.5	12.5	13.5	3,000
28	28FHT-SMR-GAN-TF(HF)	13.5	14.5	15.5	3,000
32	32FHT-SMR-GAN-TF(HF)	15.5	16.5	17.5	3,000

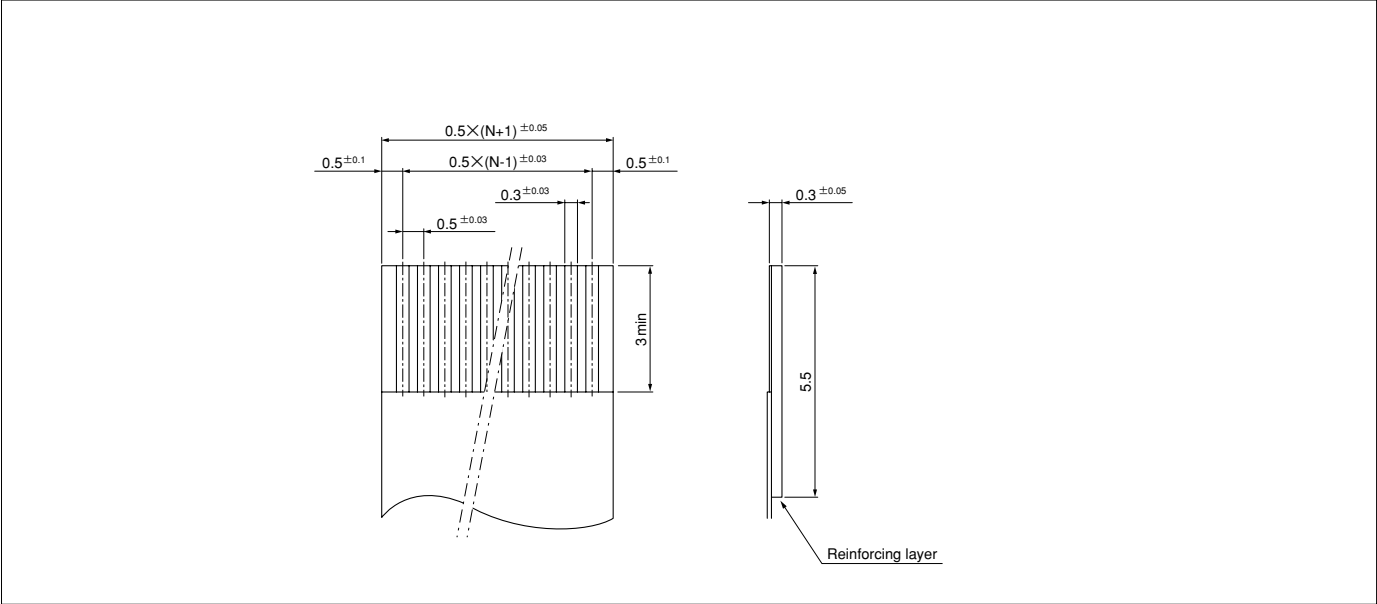
Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated (nickel-stripe)
Housing: LCP, UL94V-0

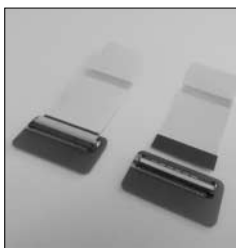
RoHS compliance

Note: The products listed above are supplied on embossed-tape.

Lead section dimensions of FFC

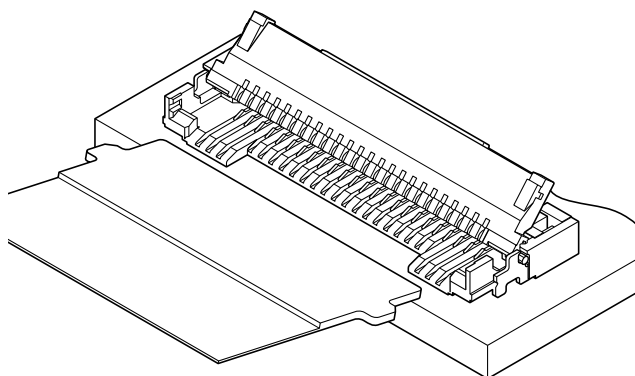


Note: N --- Number of circuits



FHV CONNECTOR

0.5mm pitch/Connectors for FFC and FPC



This FHV connector has been developed as a renewal product of existing FLZX connector.

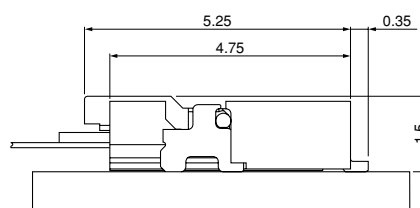
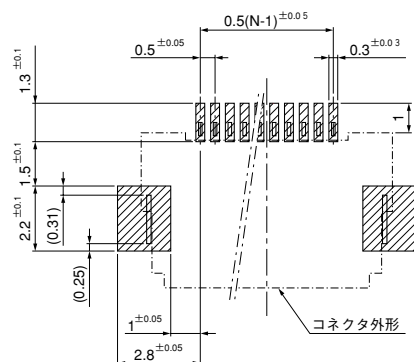
By optimizing the design, this product has realized compact and low profile, space saving and halogen-free.

The mounting pattern on PCB is common with existing product (FLZX connector).

Specifications

- Current rating: 0.5 A AC, DC
- Voltage rating: 50 V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 40 mΩ max.
After environmental tests/ 60 mΩ max.
- Insulation resistance: 800 MΩ min.
- Withstanding voltage: 200 VAC/minute
- Applicable FFC: Conductor pitch/ 0.5 mm
Conductor width/ 0.3 mm
Mating part thickness/ 0.3±0.05 mm

- * Confirm the applicability the connector with the FPC used, before use.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Compliant with RoHS.

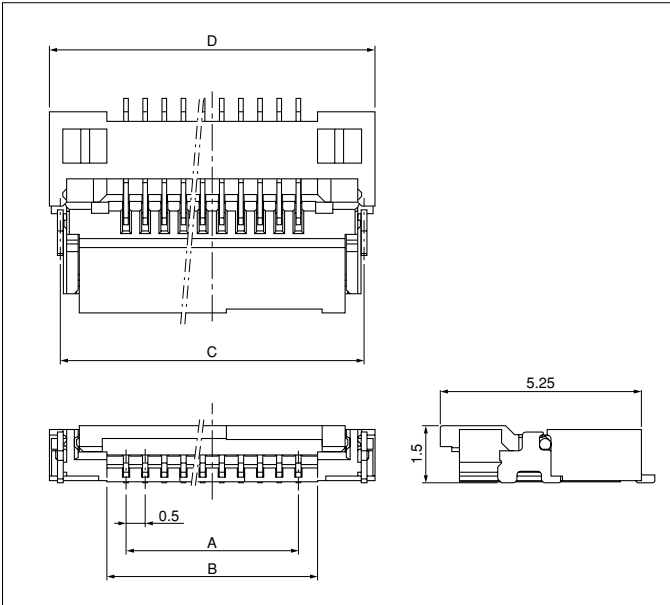


Note: 1. The above figure is the figure viewed from the connector mounting side.

2. Tolerances are non-cumulative: ±0.05mm for all centers. The dimensions above should serve as a guideline. Contact JST for details.

FHV CONNECTOR

Connector



Circuits	Model No.	Dimensions (mm)				Q'ty / reel
		A	B	C	D	
24	24FHV-RSM1-GAN-TB(HF)	11.5	12.5	14.93	15.5	4,000
40	40FHV-RSM1-GAN-TB(HF)	19.5	20.5	22.93	23.5	4,000

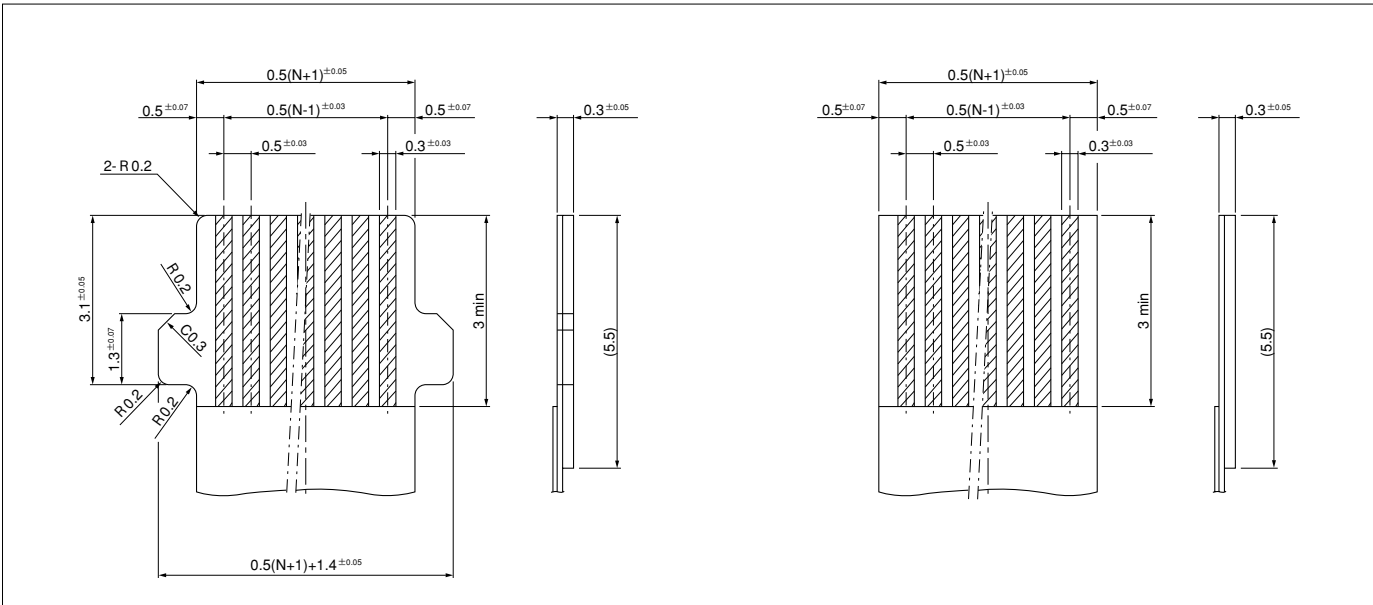
Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated (nickel-stripe)
 Reinforcing tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
 Socket housing: Heat resisting resin, UL94V-0
 Cover housing: Heat resisting resin, UL94V-0

RoHS compliance

Note: The products listed above are supplied on embossed-tape.

Lead section dimensions of FFC

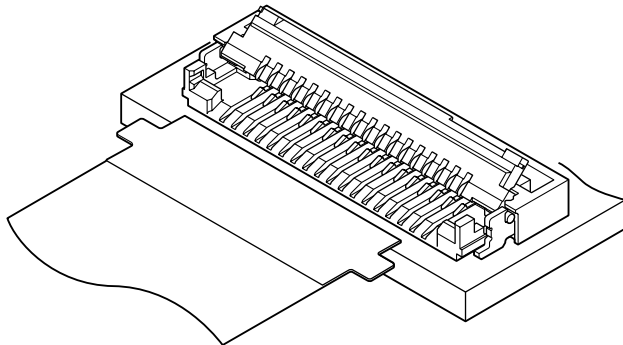


Note: N --- Number of circuits



FHY CONNECTOR

0.5mm pitch/Connectors for FPC



The connector for the 0.3mm thickness FPC with a mounting height of 1.3mm. FPC with protrusion prevents incomplete insertion and mis-insertion, so that it provides reliable connection.

- A FPC with protrusion improves operability and reliability
- Reliable cover
- Self-lock mechanism enables the cover to close by one-touch operation

Specifications

- Current rating: 0.5 A AC, DC
- Voltage rating: 50 V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 60 mΩ max.
After environmental tests/ 60 mΩ max.
(variation from initial value)
- Insulation resistance: 500 MΩ min.
- Withstanding voltage: 200 VAC/minute
- Applicable FPC: Conductor pitch/ 0.5 mm
Conductor width/ 0.35 mm
Mating part thickness/ 0.3±0.03 mm

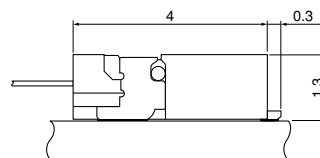
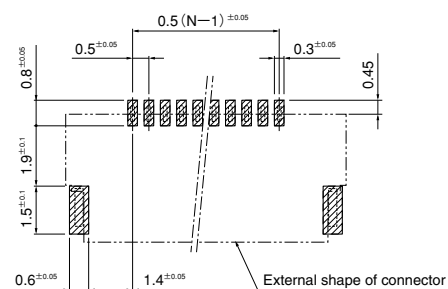
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

* Compliant with RoHS.

Standards

Recognized E60389



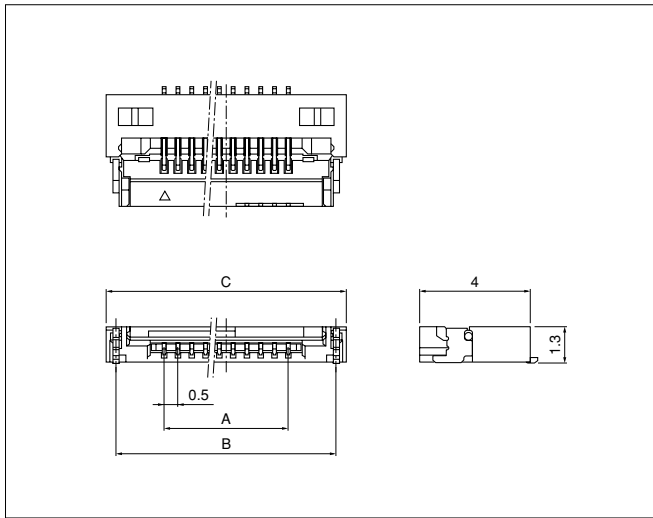
Note: 1. The above figure is the figure viewed from the connector mounting side.

2. Tolerances are non-cumulative: ±0.05mm for all centers. The dimensions above should serve as a guideline. Contact JST for details.

3. N --- Number of circuits

FHY CONNECTOR

Connector



Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
10	10FHY-RSM1-GAN-TF	4.5	8.0	8.7	3,000
18	18FHY-RSM1-GAN-TF	8.5	12.0	12.7	3,000
28	28FHY-RSM1-GAN-TF	13.5	17.0	17.7	3,000
30	30FHY-RSM1-GAN-TF	14.5	18.0	18.7	3,000
35	35FHY-RSM1-GAN-TF	17.0	20.5	21.2	3,000
40	40FHY-RSM1-GAN-TF	19.5	23.0	23.7	3,000
50	50FHY-RSM1-GAN-TF	24.5	28.0	28.7	3,000
60	60FHY-RSM1-GAN-TF	29.5	33.0	33.7	3,000

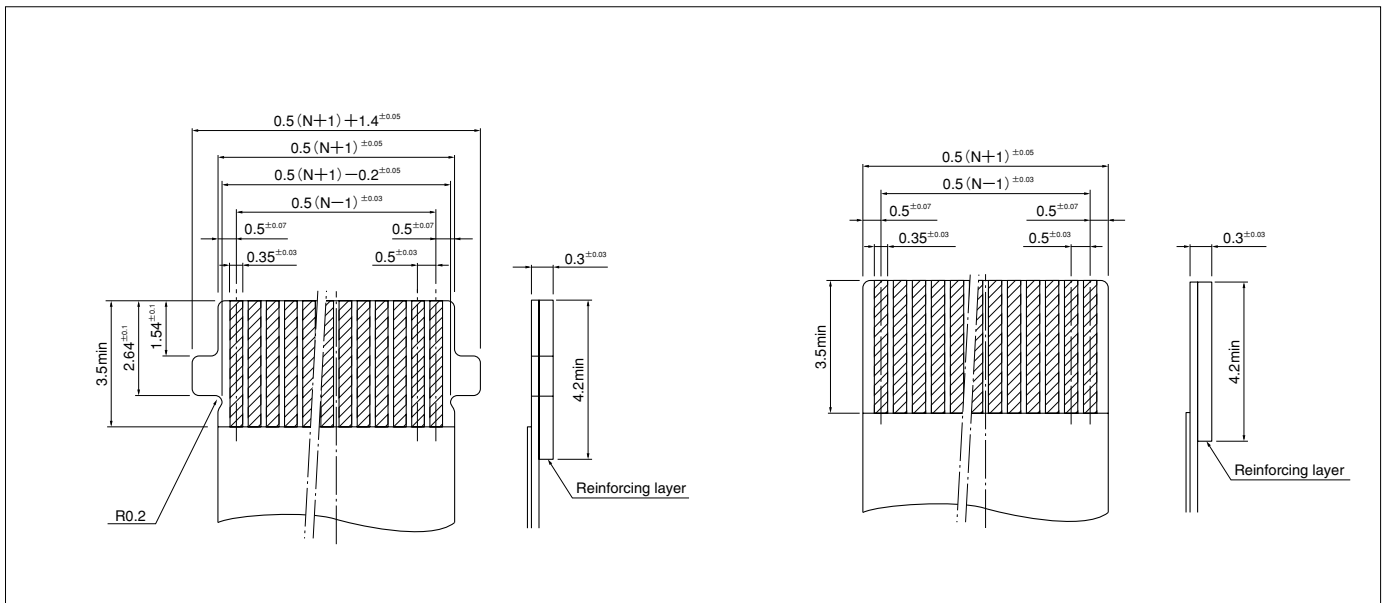
Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated (nickel-stripe)
Housing: Heat resisting resin, UL94V-0, natural
Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Cover: Heat resisting resin, UL94V-0, black

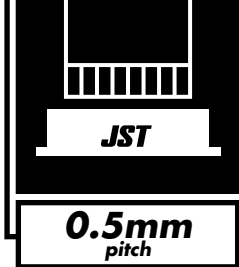
RoHS compliance This product displays (LF)(SN) on a label.

Note: 1. The products listed above are supplied on embossed-tape.
2. Contact JST for tin-plated products.

Lead section dimensions of FPC



Note: N --- Number of circuits

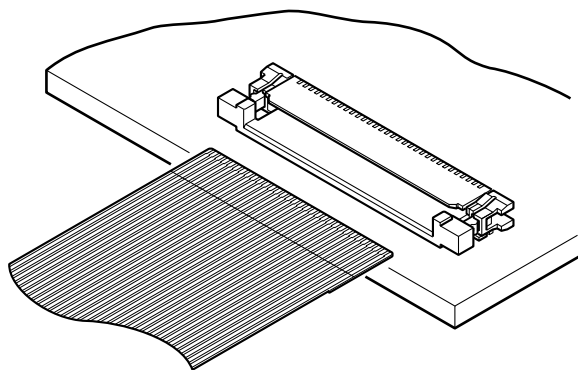


FKZ CONNECTOR

Connectors for FPC



Available both in normal type and reverse type.



Features

• Space saving

The depth is 3.5mm for the connectors of 25 circuits or less, and 4.0mm for 26 circuits or more.

• Low profile

Only 1.8mm height after mounted on the PC board.

• Zero insertion force mechanism

A ZIF mechanism increases wear resistance and extends the connector's mating life.

Specifications

- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/20m Ω max.
After environmental testing/40m Ω max.
- Insulation resistance: 100M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/0.5mm
Conductor width/0.35mm
Mating part thickness/0.30 \pm 0.05mm

<Note>FPC to be actually used should be checked for applicability.

* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

Standards

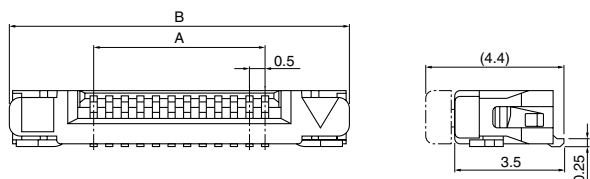
Recognized E60389

Certified LR20812

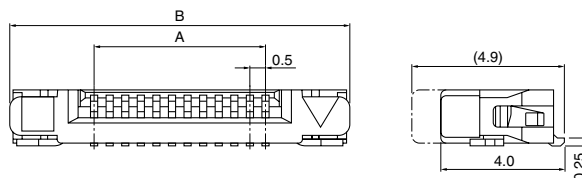
FKZ CONNECTOR

Connector

Normal type (5 to 25 circuits)



(26 to 32 circuits)



Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
5	05FKZ-SM1-1-TB	2.0	7.5	3,000
6	06FKZ-SM1-1-TB	2.5	8.0	3,000
8	08FKZ-SM1-1-TB	3.5	9.0	3,000
12	12FKZ-SM1-1-TB	5.5	11.0	3,000
14	14FKZ-SM1-1-TB	6.5	12.0	3,000
16	16FKZ-SM1-1-TB	7.5	13.0	3,000
18	18FKZ-SM1-1-TB	8.5	14.0	3,000
19	19FKZ-SM1-1-TB	9.0	14.5	3,000
20	20FKZ-SM1-1-TB	9.5	15.0	3,000
22	22FKZ-SM1-1-TB	10.5	16.0	3,000
23	23FKZ-SM1-1-TB	11.0	16.5	3,000
24	24FKZ-SM1-1-TB	11.5	17.0	3,000
26	26FKZ-SM1-2-TB	12.5	18.0	3,000
27	27FKZ-SM1-2-TB	13.0	18.5	3,000
30	30FKZ-SM1-2-TB	14.5	20.0	3,000
32	32FKZ-SM1-2-TB	15.5	21.0	3,000

Material and Finish

Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)

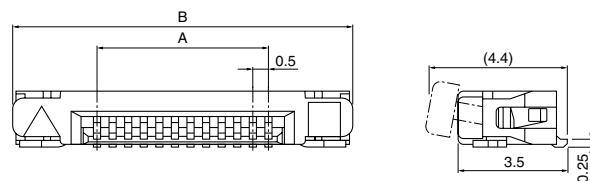
Contact: PPS, UL94V-0

Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

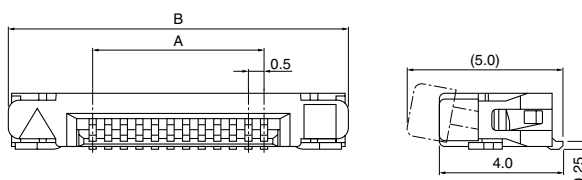
Slider: PPS, UL94V-0

RoHS compliance This product displays (LF)(SN) on a label.

Reverse type (5 to 25 circuits)



(26 to 32 circuits)



Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
5	05FKZ-RSM1-1-TB	2.0	7.5	3,000
6	06FKZ-RSM1-1-TB	2.5	8.0	3,000
8	08FKZ-RSM1-1-TB	3.5	9.0	3,000
12	12FKZ-RSM1-1-TB	5.5	11.0	3,000
13	13FKZ-RSM1-1-TB	6.0	11.5	3,000
14	14FKZ-RSM1-1-TB	6.5	12.0	3,000
16	16FKZ-RSM1-1-TB	7.5	13.0	3,000
18	18FKZ-RSM1-1-TB	8.5	14.0	3,000
19	19FKZ-RSM1-1-TB	9.0	14.5	3,000
20	20FKZ-RSM1-1-TB	9.5	15.0	3,000
22	22FKZ-RSM1-1-TB	10.5	16.0	3,000
24	24FKZ-RSM1-1-TB	11.5	17.0	3,000
26	26FKZ-RSM1-2-TB	12.5	18.0	3,000
27	27FKZ-RSM1-2-TB	13.0	18.5	3,000
28	28FKZ-RSM1-2-TB	13.5	19.0	3,000
30	30FKZ-RSM1-2-TB	14.5	20.0	3,000
32	32FKZ-RSM1-2-TB	15.5	21.0	3,000

Material and Finish

Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)

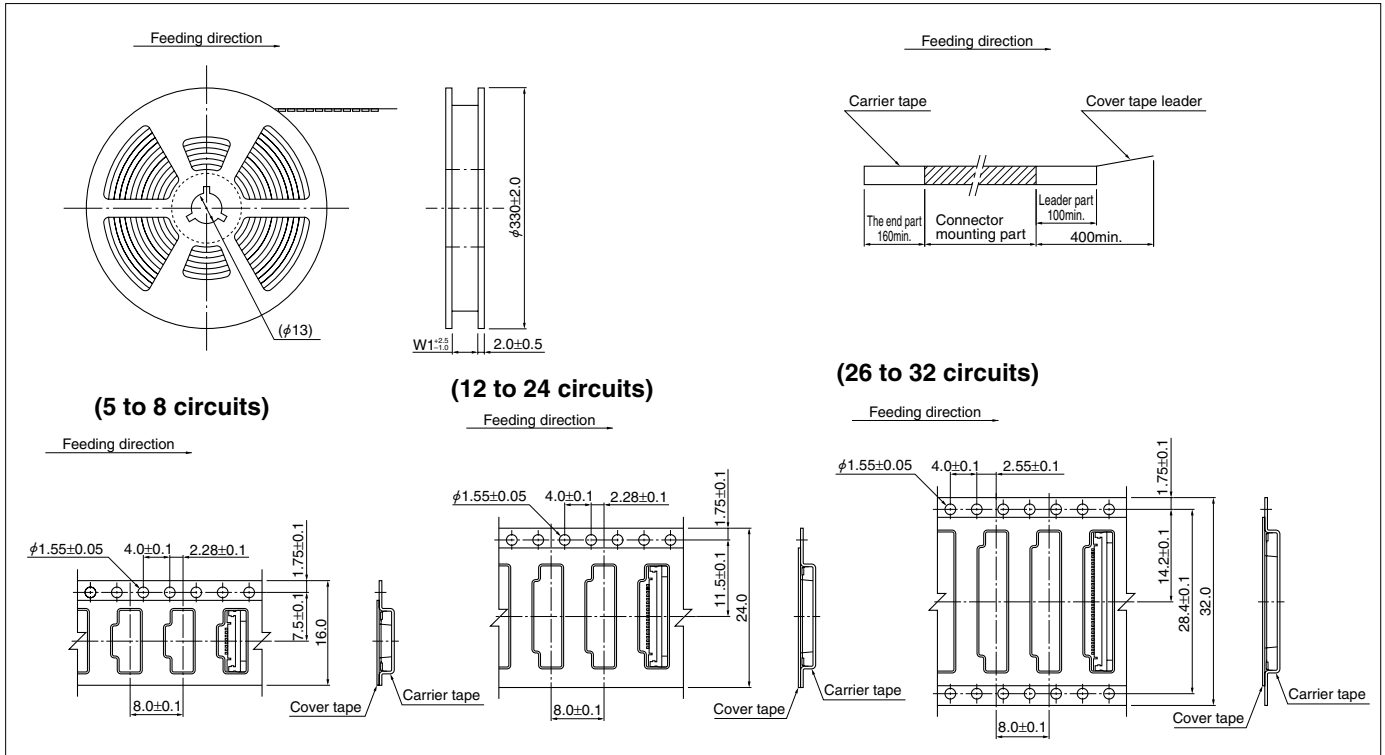
Housing: PPS, UL94V-0

Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

Slider: PPS, UL94V-0

RoHS compliance This product displays (LF)(SN) on a label.

Taping specifications

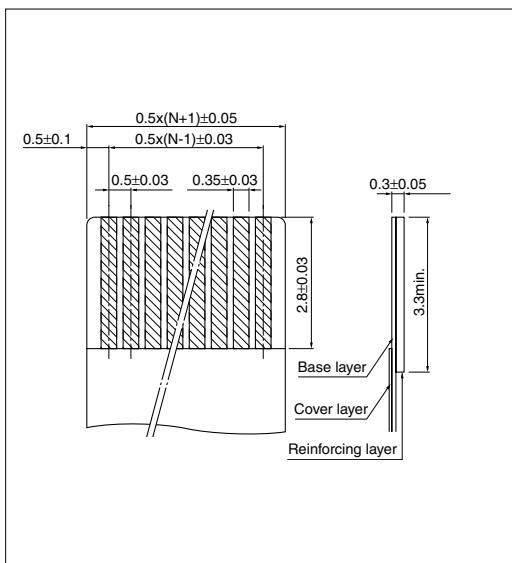


Circuits	Reel dimensions (mm)	Q'ty / reel
	W1	
5 to 8	17.5	3,000
12 to 24	25.5	3,000
26 to 32	33.5	3,000

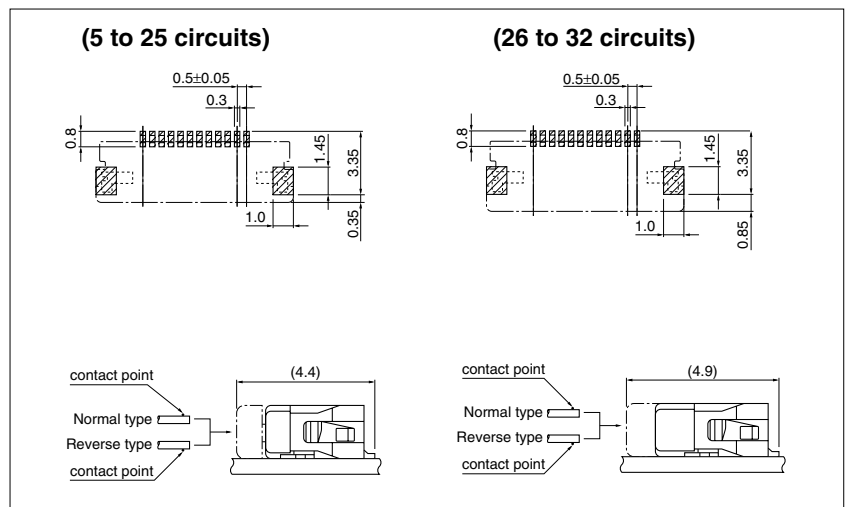
Note:

- Specifications conform to JIS C 0806. The tape width, connector loading recess square hole dimensions, etc. are determined by the number of circuits and external shape of the connector to be loaded.
- Specifications are subject to change without prior notice.

Lead section dimensions of FPC ——— PC board layout (viewed from component side) and Assembly layout ———

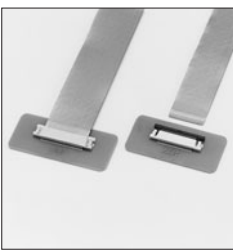


Note: N --- Number of circuits



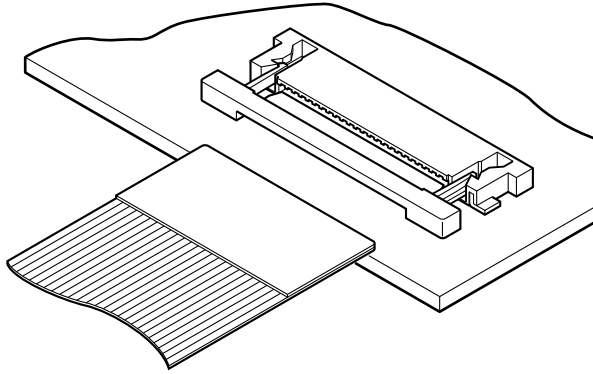
Note:

- Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
- The dimensions above should serve as a guideline. Contact JST for details.



FLH CONNECTOR

0.5mm pitch/Connectors for FPC



Compact connector with just 1.2mm high after mounting on the PC board.

- **Thin design**
- **Heat resisting design suitable for surface mounting**
- **In-line surface mounting**
- **Two types of connections**
- **Embossed tape for automatic mounting**

Specifications

- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/40m Ω max.
After environmental testing/60m Ω max.
- Insulation resistance: 800M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/0.5mm
Conductor width/0.35mm
Mating part thickness/0.30±0.03mm

Note: FPC to be actually used should be checked for applicability.

* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

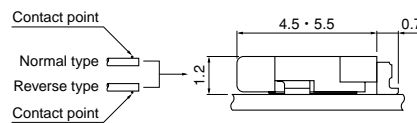
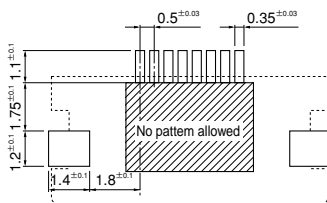
* Contact JST for details.

Standards

Ⓜ Recognized E60389

Ⓢ Certified LR20812

PC board layout (viewed from component side) and Assembly layout

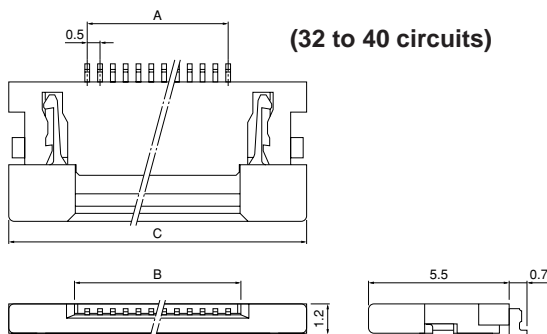
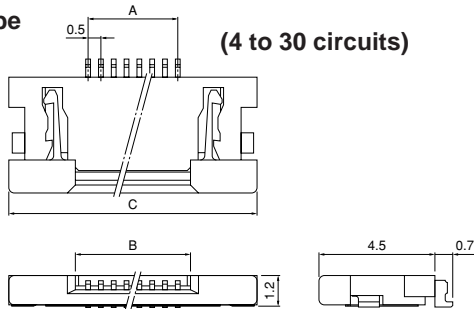


*Note: 1. Tolerances are non-cumulative: ±0.03mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.*

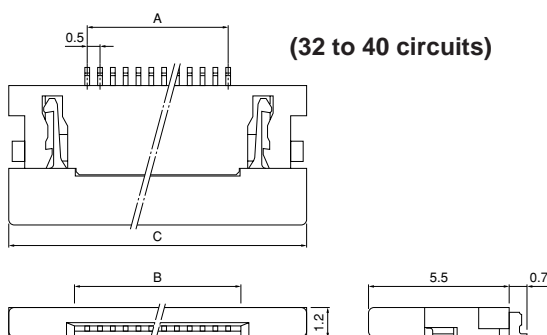
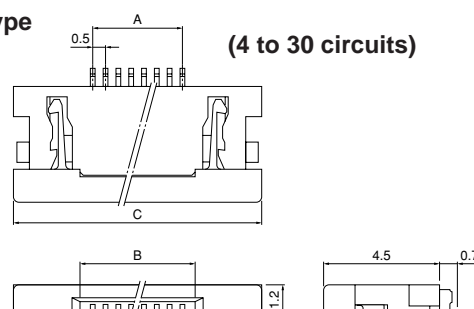
FLH CONNECTOR

Connector

Normal type



Reverse type



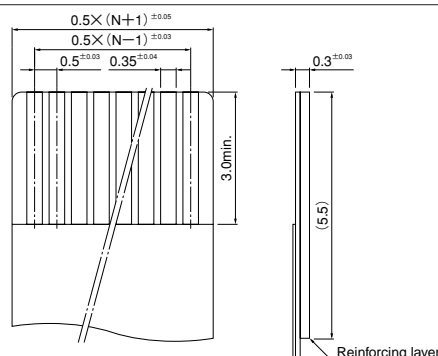
Circuits	Model No.		Dimensions (mm)			Qty / reel
	Normal type	Reverse type	A	B	C	
4	04FLH-SM1-TB	04FLH-RSM1-TB	1.5	2.55	7.7	3,000
6	06FLH-SM1-TB	06FLH-RSM1-TB	2.5	3.55	8.7	3,000
7	07FLH-SM1-TB	07FLH-RSM1-TB	3.0	4.05	9.2	3,000
8	08FLH-SM1-TB	08FLH-RSM1-TB	3.5	4.55	9.7	3,000
10	10FLH-SM1-TB	10FLH-RSM1-TB	4.5	5.55	10.7	3,000
11	11FLH-SM1-TB	11FLH-RSM1-TB	5.0	6.05	11.2	3,000
12	12FLH-SM1-TB	12FLH-RSM1-TB	5.5	6.55	11.7	3,000
13	13FLH-SM1-TB	13FLH-RSM1-TB	6.0	7.05	12.2	3,000
14	14FLH-SM1-TB	14FLH-RSM1-TB	6.5	7.55	12.7	3,000
15	15FLH-SM1-TB	15FLH-RSM1-TB	7.0	8.05	13.2	3,000
16	16FLH-SM1-TB	16FLH-RSM1-TB	7.5	8.55	13.7	3,000
17	17FLH-SM1-TB	17FLH-RSM1-TB	8.0	9.05	14.2	3,000
18	18FLH-SM1-TB	18FLH-RSM1-TB	8.5	9.55	14.7	3,000
19	—	19FLH-RSM1-TB	9.0	10.05	15.2	3,000
20	20FLH-SM1-TB	20FLH-RSM1-TB	9.5	10.55	15.7	3,000
21	21FLH-SM1-TB	—	10.0	11.05	16.2	3,000
22	22FLH-SM1-TB	22FLH-RSM1-TB	10.5	11.55	16.7	3,000
24	24FLH-SM1-TB	24FLH-RSM1-TB	11.5	12.55	17.7	3,000
26	26FLH-SM1-TB	—	12.5	13.55	18.7	3,000
28	28FLH-SM1-TB	28FLH-RSM1-TB	13.5	14.55	19.7	3,000
30	30FLH-SM1-TB	30FLH-RSM1-TB	14.5	15.55	20.7	3,000
32	32FLH-SM1-TB	32FLH-RSM1-TB	15.5	16.55	21.7	3,000
34	—	34FLH-RSM1-TB	16.5	17.55	22.7	3,000
40	40FLH-SM1-TB	40FLH-RSM1-TB	19.5	20.55	25.7	3,000

Material and Finish

Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Housing: LCP, UL94V-0
Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Slider: PA 6T, UL94V-0

RoHS compliance This product displays (LF)(SN) on a label.
Note: The products listed above are supplied on embossed tape.

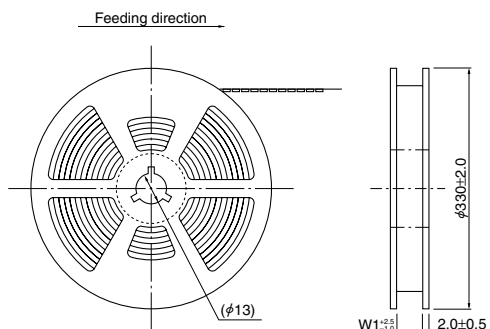
Lead section dimensions of FPC



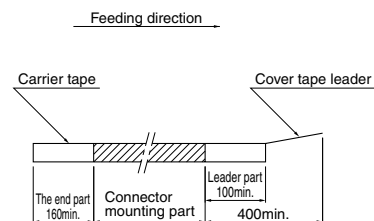
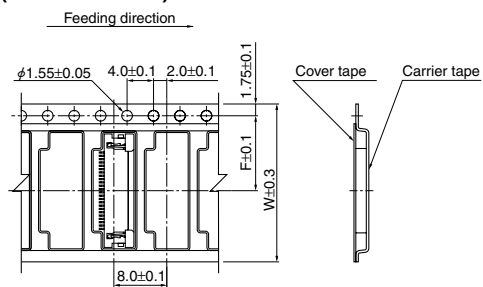
Note: N --- Number of circuits

FLH CONNECTOR

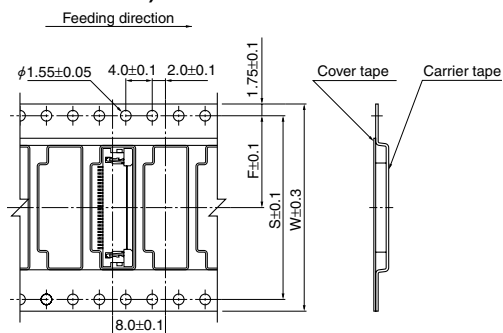
Taping specifications



(4 to 24 circuits)



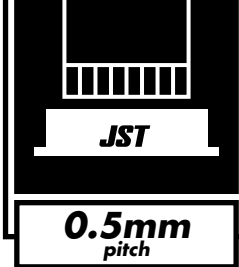
(26 to 40 circuits)



Circuits	Taping dimensions (mm)			Reel dimensions (mm) W1	Q'ty / reel
	F	S	W		
4 to 8	7.5	—	16.0	17.5	3,000
10 to 24	11.5	—	24.0	25.5	3,000
26 to 30	14.2	28.4	32.0	33.5	3,000
32 to 40	20.2	40.4	44.0	45.5	3,000

Note:

1. Specifications conform to JIS C 0806. The tape width, connector loading recess square hole dimensions, etc. are determined by the number of circuits and external shape of the connector to be loaded.
2. Specifications are subject to change without prior notice.

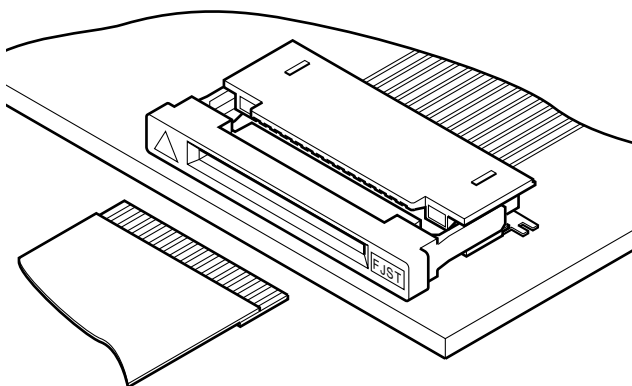


FLS CONNECTOR

Connectors for FPC



Compact connector with just 2.0mm high after mounting on the PC board. Available both in normal type and reverse type.



Features

• Easy location of FPC

The shrouded FPC entry point allows the FPC to be positioned and hold in place before the connector is locked.

• Zero insertion force mechanism

A ZIF mechanism increases wear resistance and extends the connector's mating life.

• Heat resisting design suitable for surface mounting

The housing is made of heat resisting resin to allow reflow soldering.

• In-line surface mounting

Has an in-line surface mount tails for easy inspection.

• Two types of connections

The connector is available in either the normal or reverse configurations. The FPC is positioned with its mating surfaces facing upward for the normal configured connector, while the reverse configuration requires that the FPC be positioned with its mating surfaces facing down. The engineer has greater freedom in designing his circuitry.

• Embossed tape for automatic mounting

The FLS connector can be packaged in embossed tape for automatic mounting.

Specifications

- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/40m Ω max.
After environmental testing/60m Ω max.
- Insulation resistance: 800M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/0.5mm
Conductor width/0.35mm
Mating part thickness/0.3 \pm 0.03mm

<Note>FPC to be actually used should be checked for applicability.

* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

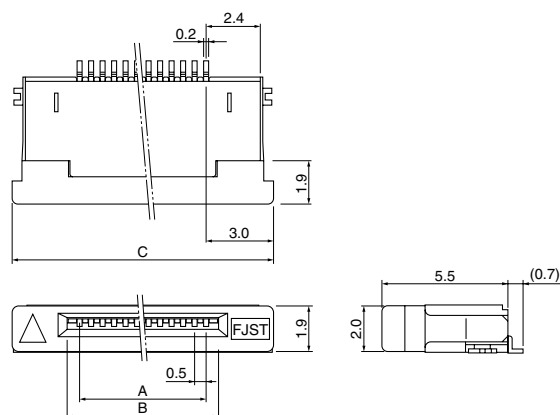
Standards

Recognized E60389

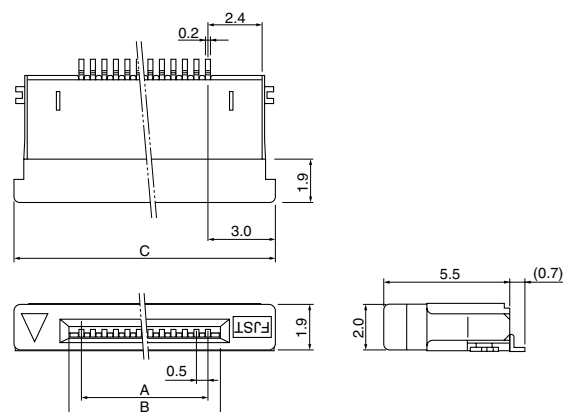
Certified LR20812

Connector

Normal type



Reverse type



Circuits	Model No.		Dimensions (mm)			Q'ty / reel
	Normal type	Reverse type	A	B	C	
6	06FLS-SM1-TB	06FLS-RSM1-TB	2.5	3.55	8.5	2,000
7	07FLS-SM1-TB	07FLS-RSM1-TB	3.0	4.05	9.0	2,000
9	09FLS-SM1-TB	09FLS-RSM1-TB	4.0	5.05	10.0	2,000
10	10FLS-SM1-TB	10FLS-RSM1-TB	4.5	5.55	10.5	2,000
12	12FLS-SM1-TB	12FLS-RSM1-TB	5.5	6.55	11.5	2,000
13	13FLS-SM1-TB	—	6.0	7.05	12.0	2,000
15	15FLS-SM1-TB	15FLS-RSM1-TB	7.0	8.05	13.0	2,000
16	16FLS-SM1-TB	16FLS-RSM1-TB	7.5	8.55	13.5	2,000
17	17FLS-SM1-TB	17FLS-RSM1-TB	8.0	9.05	14.0	2,000
18	18FLS-SM1-TB	18FLS-RSM1-TB	8.5	9.55	14.5	2,000
19	19FLS-SM1-TB	19FLS-RSM1-TB	9.0	10.05	15.0	2,000
20	20FLS-SM1-TB	20FLS-RSM1-TB	9.5	10.55	15.5	2,000
22	22FLS-SM1-TB	22FLS-RSM1-TB	10.5	11.55	16.5	2,000
24	24FLS-SM1-TB	24FLS-RSM1-TB	11.5	12.55	17.5	2,000
26	26FLS-SM1-TB	26FLS-RSM1-TB	12.5	13.55	18.5	2,000
28	28FLS-SM1-TB	28FLS-RSM1-TB	13.5	14.55	19.5	2,000
30	30FLS-SM1-TB	30FLS-RSM1-TB	14.5	15.55	20.5	2,000

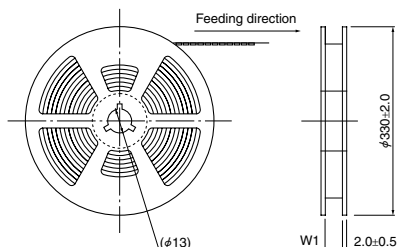
Material and Finish

Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
 Slider housing: PA 46, UL94V-0 Receptacle housing: PA 46, UL94V-0
 Normal type...natural Normal type...gray
 Reverse type...black Reverse type...natural
 Solder tab: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)

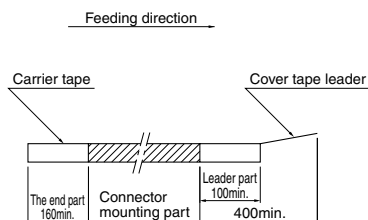
RoHS compliance This product displays (LF)(SN) on a label.
 Note: The products listed above are supplied on embossed-tape.

FLS CONNECTOR

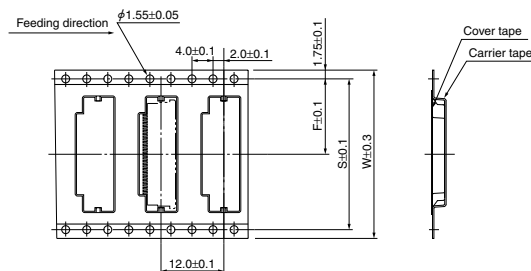
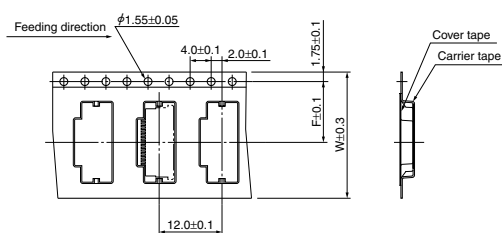
Taping specifications



(6 to 22 circuits)



(24 to 30 circuits)



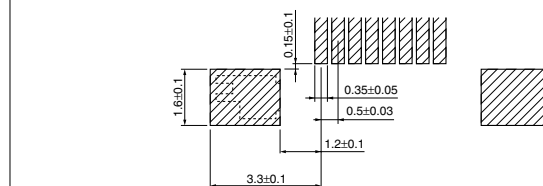
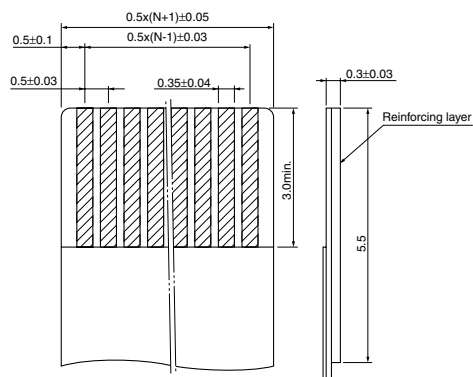
Circuits	Taping dimensions (mm)				Q'ty / reel
	F	S	W	W1	
6 to 7	7.5	—	16.0	17.5	2,000
9 to 22	11.5	—	24.0	25.5	2,000
24 to 30	14.2	28.4	32.0	33.5	2,000

Note:

- Specifications conform to JIS C 0806. The tape width, connector loading recess square hole dimensions, etc. are determined by the number of circuits and external shape of the connector to be loaded.
- Specifications are subject to change without prior notice.

Lead section dimensions of FPC

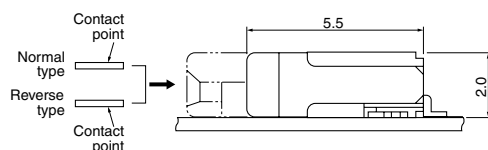
PC board layout (viewed from component side)



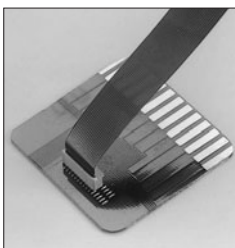
Note:

- Tolerances are non-cumulative: ±0.03mm for all centers.
 - The dimensions above should serve as a guideline.
- Contact JST for details.

Assembly layout

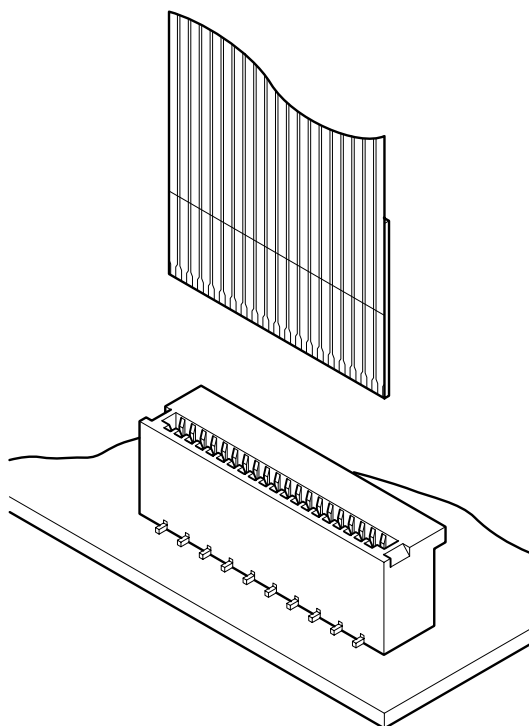


Note: N --- Number of circuits



FLT CONNECTOR

0.5mm pitch/Connectors for FPC



- **Heat resisting design suitable for surface mounting**
- **Staggered surface mount tails**
- **Embossed tape for automatic mounting**
- **FPC insertion is easy**
- **Compact design**

Specifications

- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/50m Ω max.
After environmental testing/20m Ω max.
(variation from initial value)
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/0.5mm
Conductor width/0.35mm
Mating part thickness/0.30±0.05mm

Note: FPC to be actually used should be checked for applicability.

* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

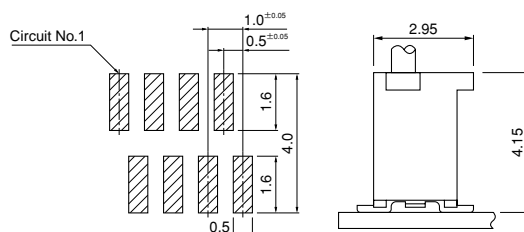
* Contact JST for details.

Standards

Ⓜ Recognized E60389

Ⓢ Certified LR20812

PC board layout (viewed from component side) and Assembly layout

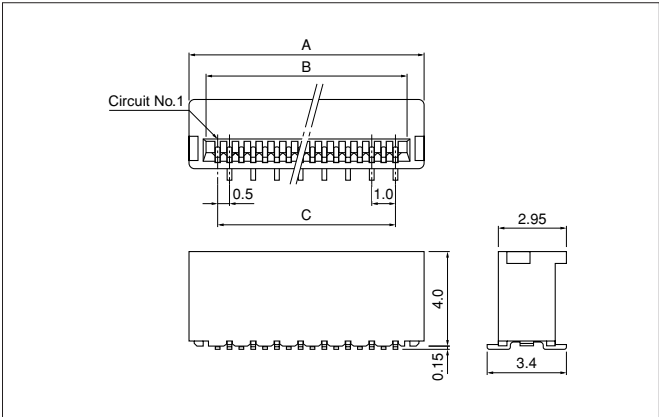


Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. The dimensions above should serve as a guide line. Contact JST for details.

FLT CONNECTOR

Connector



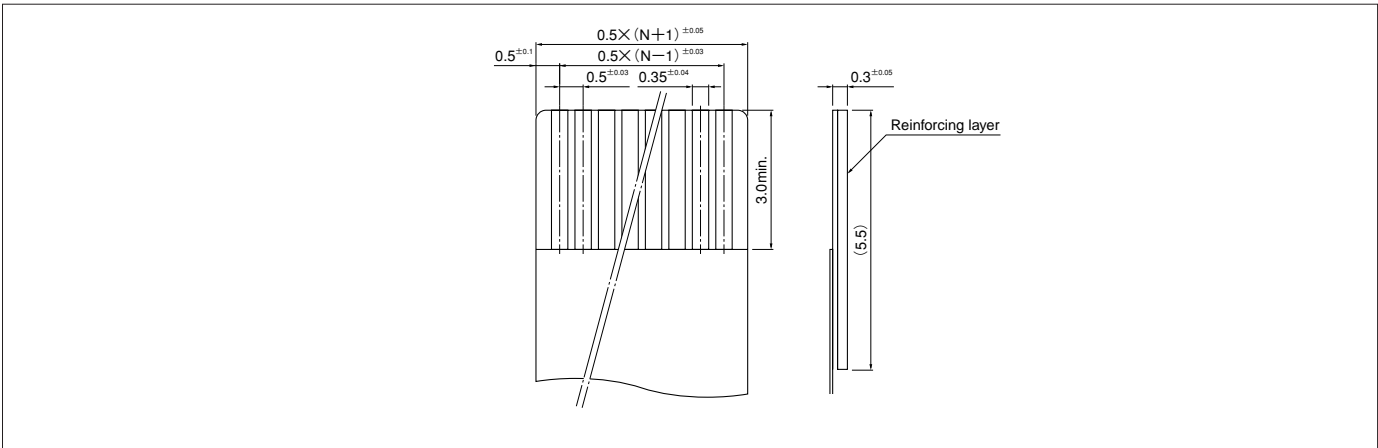
Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
6	06FLT-SM2-TB	4.9	3.5	2.5	2,500
8	08FLT-SM2-TB	5.9	4.5	3.5	2,500
10	10FLT-SM2-TB	6.9	5.5	4.5	2,500
12	12FLT-SM2-TB	7.9	6.5	5.5	2,500
14	14FLT-SM2-TB	8.9	7.5	6.5	2,500
16	16FLT-SM2-TB	9.9	8.5	7.5	2,500
18	18FLT-SM2-TB	10.9	9.5	8.5	2,500
20	20FLT-SM2-TB	11.9	10.5	9.5	2,500
22	22FLT-SM2-TB	12.9	11.5	10.5	2,500
24	24FLT-SM2-TB	13.9	12.5	11.5	2,500
26	26FLT-SM2-TB	14.9	13.5	12.5	2,500
28	28FLT-SM2-TB	15.9	14.5	13.5	2,500
30	30FLT-SM2-TB	16.9	15.5	14.5	2,500
32	32FLT-SM2-TB	17.9	16.5	15.5	2,500
40	40FLT-SM2-TB	21.9	20.5	19.5	2,500

Material and Finish

Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Housing: PA 6T, UL94V-0

RoHS compliance This product displays (LF)(SN) on a label.
Note: The products listed above are supplied on embossed-tape.

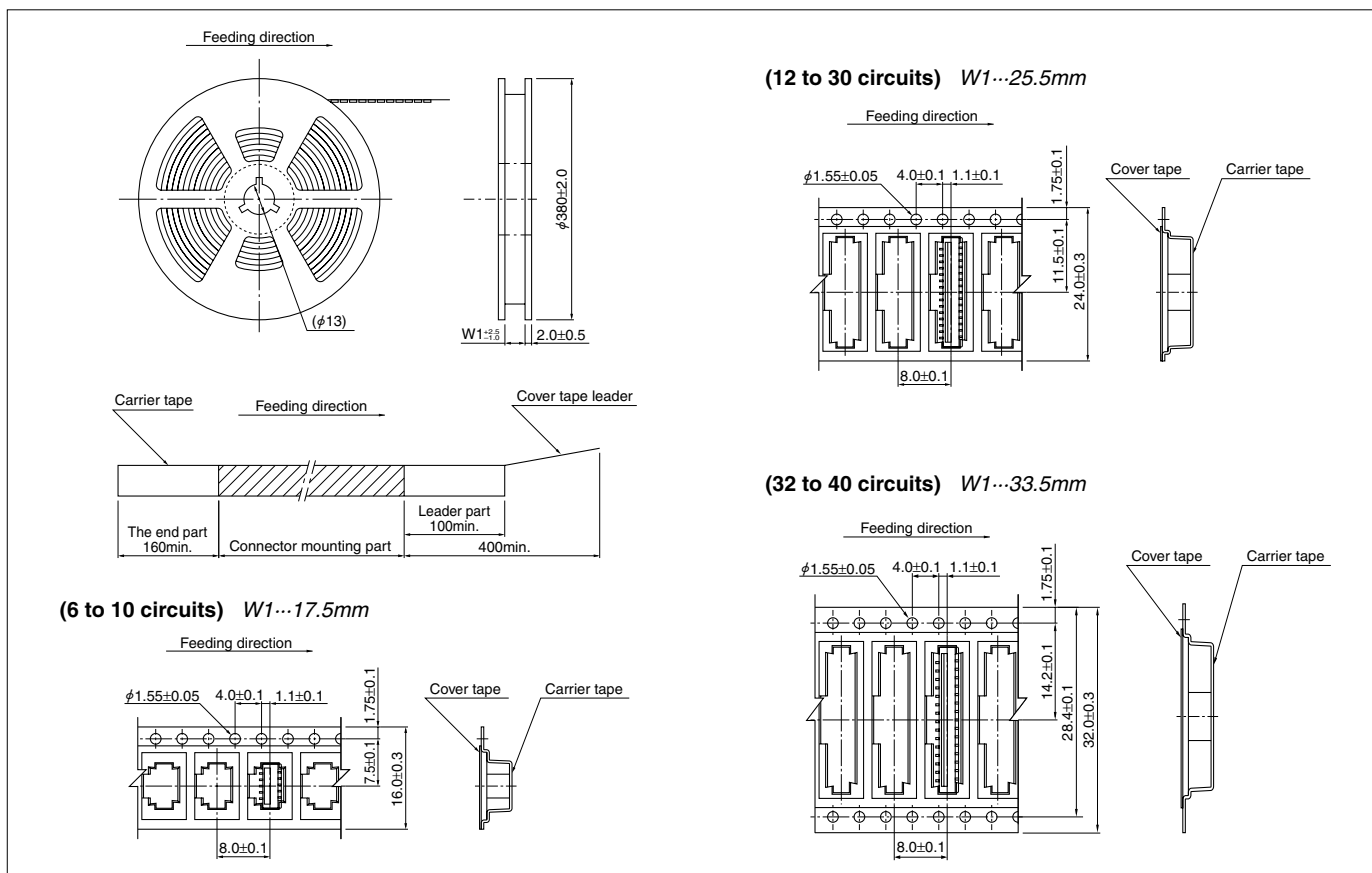
Lead section dimensions of FPC



Note: N --- Number of circuits

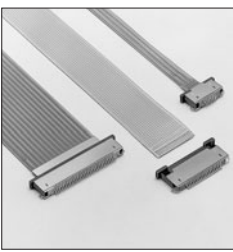
FLT CONNECTOR

Taping specifications



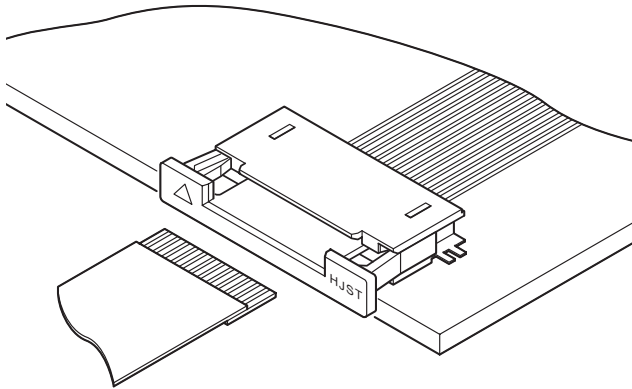
Note:

1. Specifications conform to JIS C 0806. The tape width, connector recess hole dimensions, etc. are determined by the number of circuits and external shape of the connector to be loaded.
2. Specifications are subject to change without prior notice.



FLZ CONNECTOR

0.5mm pitch/Connectors for FFC and FPC



This extremely small 0.5mm pitch connector with a height of only 2.0mm above the PCB surface allows interconnection in extremely small spaces and is an example of JST's leading edge technology.

- Zero insertion force mechanism
- Heat resisting design suitable for surface mounting
- In-line surface mount tails
- Two types of connections
- Embossed tape for automatic mounting

Specifications

- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/40m Ω max.
After environmental testing/60m Ω max.
- Insulation resistance: 800M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FFC and FPC: Conductor pitch/0.5mm
Conductor width/0.35mm
Mating part thickness/0.30±0.03mm

Note: FFC and FPC to be actually used should be checked for applicability.

* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

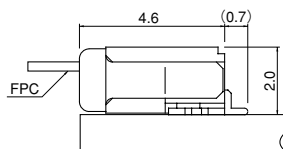
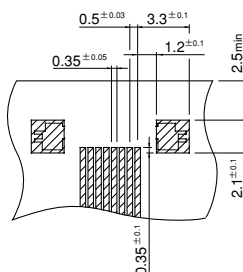
* Contact JST for details.

Standards

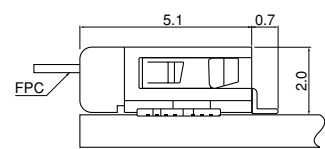
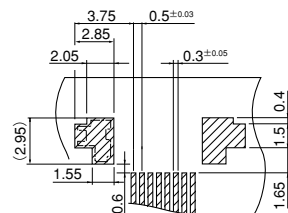
Ⓜ Recognized E60389

Ⓢ Certified LR20812

PC board layout (viewed from component side) and Assembly layout



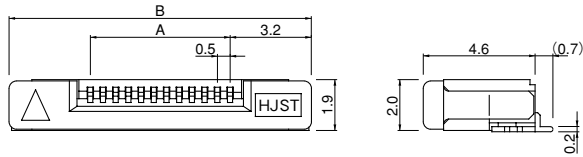
Inner lock type



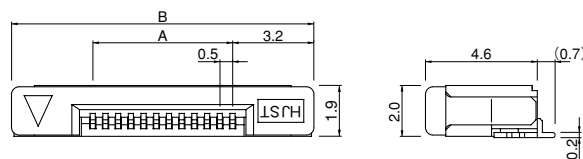
Note: 1. Tolerances are non-cumulative: ±0.03mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Connector

Normal type

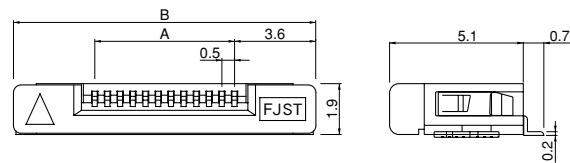


Reverse type

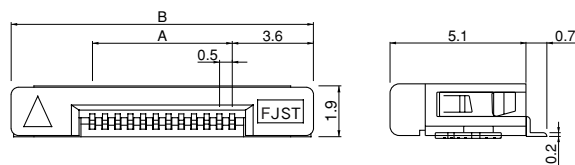


<Inner lock type>

Normal type



Reverse type



Circuits	Model No.		Dimensions (mm)		Q'ty / reel
	Normal type	Reverse type	A	B	
6	06FLZ-SM2-TB	06FLZ-RSM2-TB	2.5	8.9	2,000
7	07FLZ-SM2-TB	07FLZ-RSM2-TB	3.0	9.4	2,000
8	08FLZ-SM2-TB	08FLZ-RSM2-TB	3.5	9.9	2,000
9	09FLZ-SM2-TB	09FLZ-RSM2-TB	4.0	10.4	2,000
10	10FLZ-SM2-TB	10FLZ-RSM2-TB	4.5	10.9	2,000
11	11FLZ-SM2-TB	11FLZ-RSM2-TB	5.0	11.4	2,000
12	12FLZ-SM2-TB	12FLZ-RSM2-TB	5.5	11.9	2,000
13	13FLZ-SM2-TB	13FLZ-RSM2-TB	6.0	12.4	2,000
14	14FLZ-SM2-TB	14FLZ-RSM2-TB	6.5	12.9	2,000
15	15FLZ-SM2-TB	15FLZ-RSM2-TB	7.0	13.4	2,000
16	16FLZ-SM2-TB	16FLZ-RSM2-TB	7.5	13.9	2,000
17	17FLZ-SM2-TB	17FLZ-RSM2-TB	8.0	14.4	2,000
18	18FLZ-SM2-TB	18FLZ-RSM2-TB	8.5	14.9	2,000
19	19FLZ-SM2-TB	19FLZ-RSM2-TB	9.0	15.4	2,000
20	20FLZ-SM2-TB	20FLZ-RSM2-TB	9.5	15.9	2,000
21	21FLZ-SM2-TB	21FLZ-RSM2-TB	10.0	16.4	2,000
22	22FLZ-SM2-TB	22FLZ-RSM2-TB	10.5	16.9	2,000
23	23FLZ-SM2-TB	23FLZ-RSM2-TB	11.0	17.4	2,000
24	24FLZ-SM2-TB	24FLZ-RSM2-TB	11.5	17.9	2,000
25	25FLZ-SM2-TB	25FLZ-RSM2-TB	12.0	18.4	2,000
26	26FLZ-SM2-TB	26FLZ-RSM2-TB	12.5	18.9	2,000
27	27FLZ-SM2-TB	27FLZ-RSM2-TB	13.0	19.4	2,000
28	28FLZ-SM2-TB	28FLZ-RSM2-TB	13.5	19.9	2,000
30	30FLZ-SM2-TB	30FLZ-RSM2-TB	14.5	20.9	2,000
33	33FLZ-SM2-TB	—	16.0	22.4	2,000

<Inner lock type>

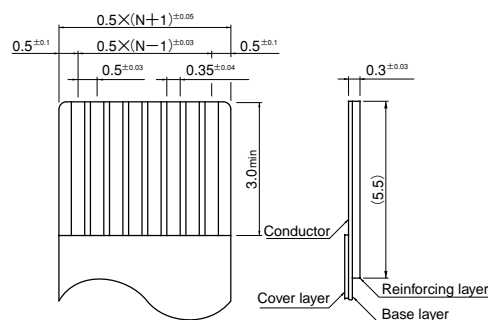
Circuits	Model No.		Dimensions (mm)		Q'ty / reel
	Normal type	Reverse type	A	B	
13	—	13FLZ-RSM2-R-TB	6.0	13.1	2,000
30	30FLZ-SM2-R-TB	—	14.5	21.6	2,000
32	32FLZ-SM2-R-TB	32FLZ-RSM2-R-TB	15.5	22.6	2,000
34	34FLZ-SM2-R-TB	34FLZ-RSM2-R-TB	16.5	23.6	2,000
36	36FLZ-SM2-R-TB	36FLZ-RSM2-R-TB	17.5	24.6	2,000
40	40FLZ-SM2-R-TB	40FLZ-RSM2-R-TB	19.5	26.6	2,000
42	42FLZ-SM2-R-TB	—	20.5	27.6	2,000
45	45FLZ-SM2-R-TB	—	22.0	29.1	2,000
50	50FLZ-SM2-R-TB	—	24.5	31.6	2,000

Material and Finish

Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
 Slider housing: PA 6T, UL94V-0 (black)
 Housing: PA 6T, UL94V-0
 Normal type...gray
 Reverse type...natural
 Solder tab: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.
 Note: The products listed above are supplied on embossed tape.

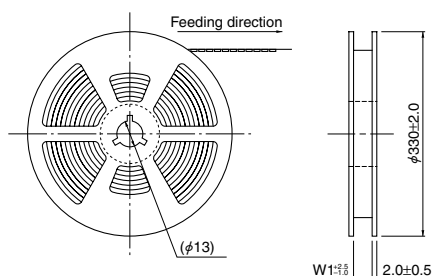
Lead section dimensions of FFC and FPC



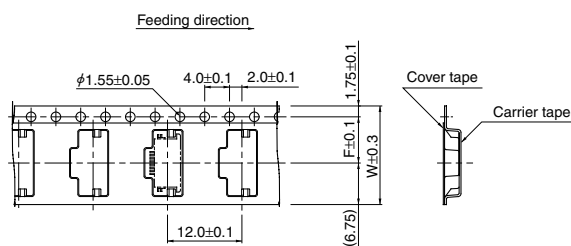
Note: N --- Number of circuits

FLZ CONNECTOR

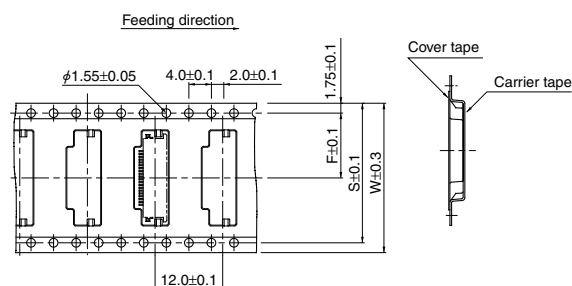
Taping specifications



(6 to 24 circuits)



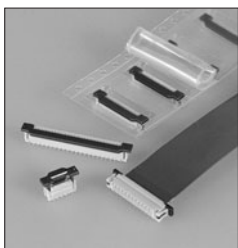
(25 to 50 circuits)



Circuits	Taping dimensions (mm)			Reel dimensions (mm)	Q'ty / reel
	F	S	W	W1	
6 to 8	7.5	—	16.0	17.5	2,000
9 to 24	11.5	—	24.0	25.5	2,000
25 to 30	14.2	28.4	32.0	33.5	2,000
32 to 50	20.2	40.4	44.0	45.5	2,000

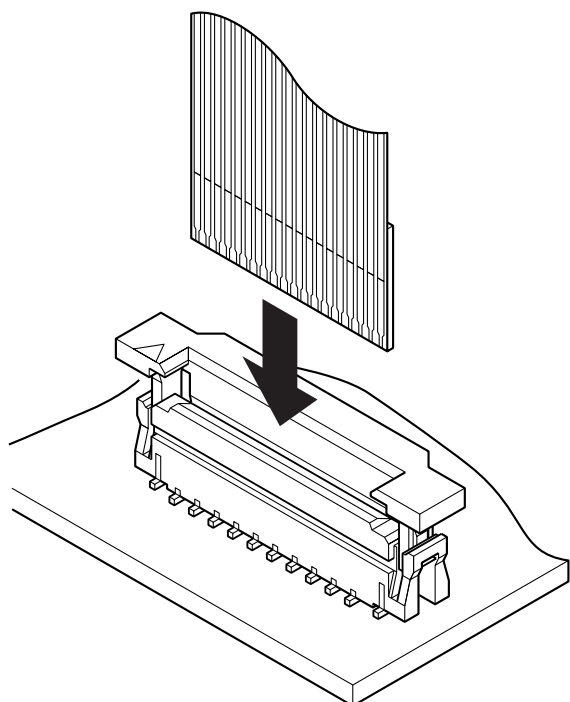
Note:

- Specifications conform to JIS C 0806. The tape width, connector recess dimensions, etc. are determined by the number of circuits and external shape of the connector to be loaded.
- Specifications are subject to change without prior notice.



FLZT CONNECTOR

0.5mm pitch/Connectors for FPC



Vertical 0.5mm pitch ZIF type connector with staggered solder tails. Both normal type and reverse type are available.

- Zero insertion force mechanism
- Two types of connections
- Heat resisting design suitable for surface mounting

Specifications

- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/20m Ω max.
After environmental testing/40m Ω max.
- Insulation resistance: 100M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/0.5mm
Conductor width/0.35mm
Mating part thickness/0.3 \pm 0.05mm

Note: FPC to be actually used should be checked for applicability.

- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

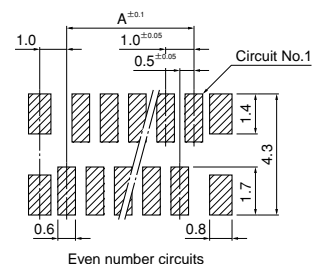
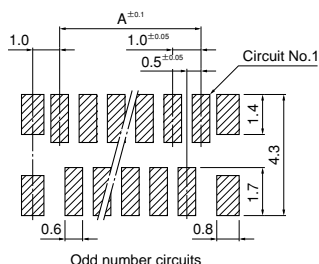
Standards

Recognized E60389

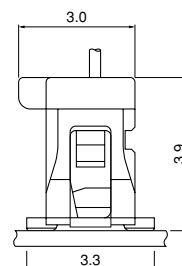
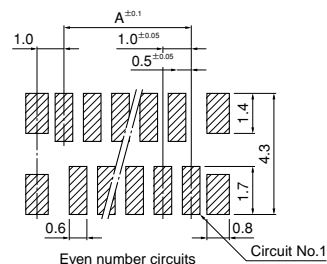
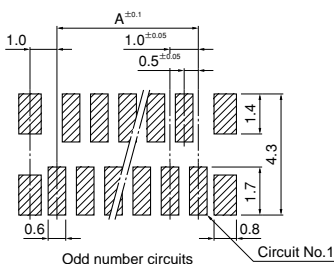
Certified LR20812

PC board layout (viewed from component side) and Assembly layout

Normal type



Reverse type



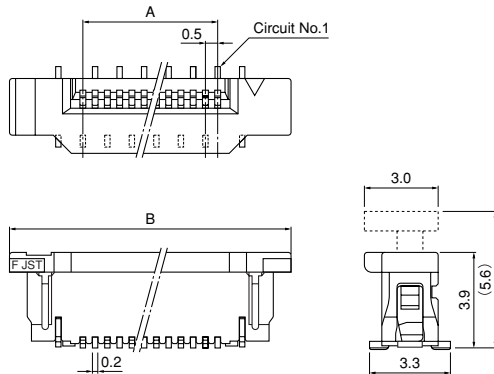
Note: 1. Tolerances are non-cumulative: ± 0.05 mm for all centers.

2. The dimensions above should serve as a guideline. Contact JST for details.

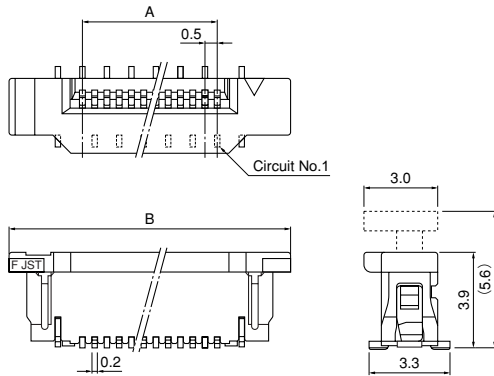
FLZT CONNECTOR

Connector

Normal type



Reverse type



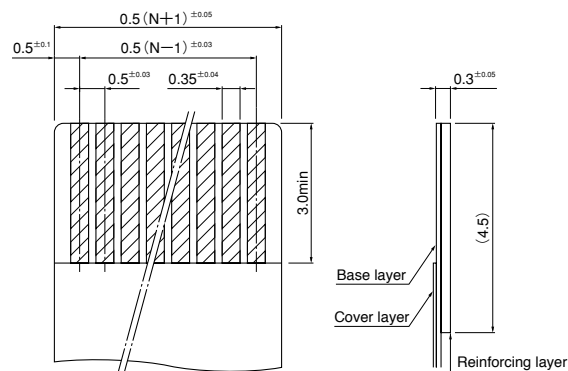
Circuits	Model No.		Dimensions (mm)		Q'ty / reel
	Normal type	Reverse type	A	B	
6	06FLZT-SM1-TF	06FLZT-RSM1-TF	2.5	8.5	1,500
8	08FLZT-SM1-TF	08FLZT-RSM1-TF	3.5	9.5	1,500
10	10FLZT-SM1-TF	10FLZT-RSM1-TF	4.5	10.5	1,500
12	12FLZT-SM1-TF	12FLZT-RSM1-TF	5.5	11.5	1,500
14	14FLZT-SM1-TF	14FLZT-RSM1-TF	6.5	12.5	1,500
15	15FLZT-SM1-TF	15FLZT-RSM1-TF	7.0	13.0	1,500
16	16FLZT-SM1-TF	16FLZT-RSM1-TF	7.5	13.5	1,500
20	20FLZT-SM1-TF	20FLZT-RSM1-TF	9.5	15.5	1,500
22	22FLZT-SM1-TF	22FLZT-RSM1-TF	10.5	16.5	1,500
24	24FLZT-SM1-TF	24FLZT-RSM1-TF	11.5	17.5	1,500
28	28FLZT-SM1-TF	28FLZT-RSM1-TF	13.5	19.5	1,500
30	30FLZT-SM1-TF	30FLZT-RSM1-TF	14.5	20.5	1,500
37	37FLZT-SM1-TF	37FLZT-RSM1-TF	18.0	24.0	1,500
40	40FLZT-SM1-TF	40FLZT-RSM1-TF	19.5	25.5	1,500
42	42FLZT-SM1-TF	42FLZT-RSM1-TF	20.5	26.5	1,500

Material and Finish

Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
 Slider housing: PPS, UL94V-0
 Normal type...natural (brown)
 Reverse type...black
 Housing: PPS, UL94V-0, natural
 Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

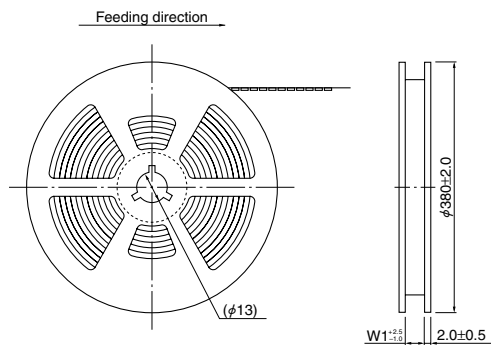
Lead section dimensions of FPC



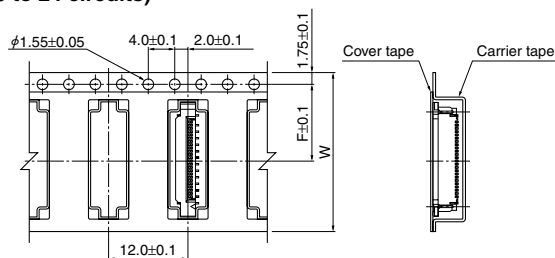
Note: N---Number of circuits

FLZT CONNECTOR

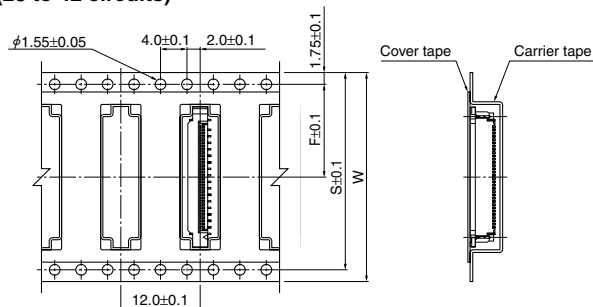
Taping specifications



(6 to 24 circuits)



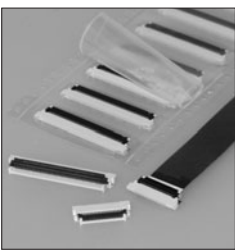
(28 to 42 circuits)



Circuits	Taping dimensions (mm)			Reel dimensions (mm)	Q'ty / reel
	F	S	W	W1	
6 to 8	7.5	—	16	17.5	1,500
10 to 24	11.5	—	24	25.5	1,500
28 to 42	20.2	40.4	44	44.5	1,500

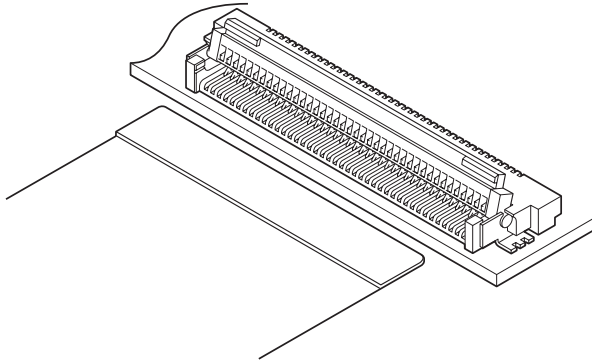
Note:

- Specifications conform to JIS C 0806. The tape width, connector recess dimensions, etc. are determined by the number of circuits and external shape of the connector to be loaded.
- Specifications are subject to change without prior notice.



FLZX CONNECTOR

0.5mm pitch/Connectors for FFC and FPC



The connector for the 0.3mm thickness FFC or FPC with a mounting height of 2.0mm.

This 0.5mm pitch FFC or FPC connector adopts a ZIF structure, which provides superior performance in durability and offers effective protection from wearing. The use of the rotating type cover contributes to easy operation especially with big circuits connectors.

- Rotating type cover
- Reliable cover
- Heat resisting design for surface mounting

Specifications

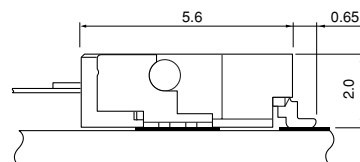
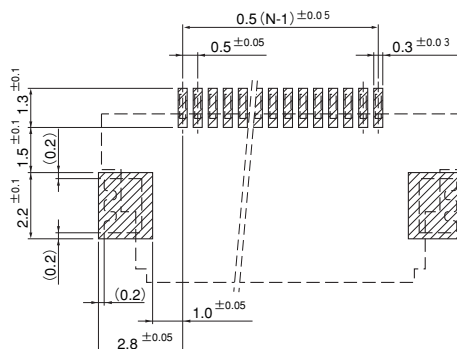
- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/40m Ω max.
After environmental testing/60m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FFC and FPC: Conductor pitch/0.5mm
Conductor width/0.35mm
Mating part thickness/0.3±0.03mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

Ⓜ Recognized E60389

Ⓢ Certified LR20812

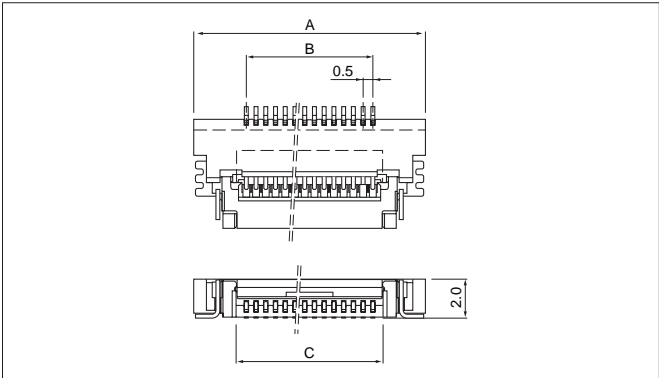
PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.
3. N --- Number of circuits

FLZX CONNECTOR

Connector



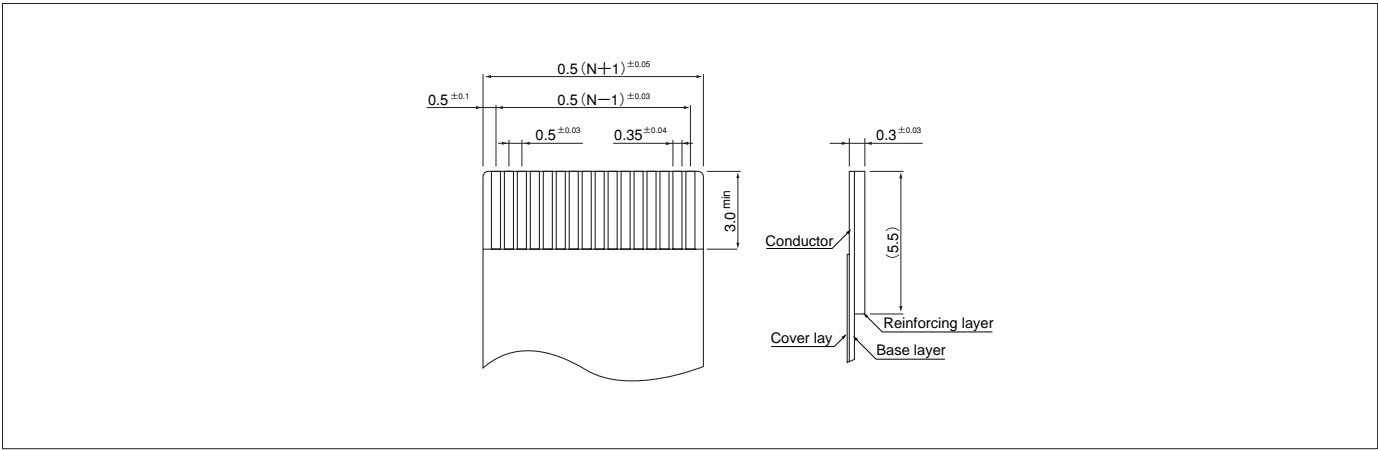
Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
20	20FLZX-RSM1-A-TB	14.9	9.5	10.55	2,000
24	24FLZX-RSM1-A-TB	16.9	11.5	12.55	2,000
32	32FLZX-RSM1-A-TB	20.9	15.5	16.55	2,000
34	34FLZX-RSM1-A-TB	21.9	16.5	17.55	2,000
50	50FLZX-RSM1-A-TB	29.9	24.5	25.55	2,000

Material and Finish

Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Housing: Heat resisting resin, UL94V-0
Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Cover housing: Heat resisting resin, UL94V-0

RoHS compliance This product displays (LF)(SN) on a label.

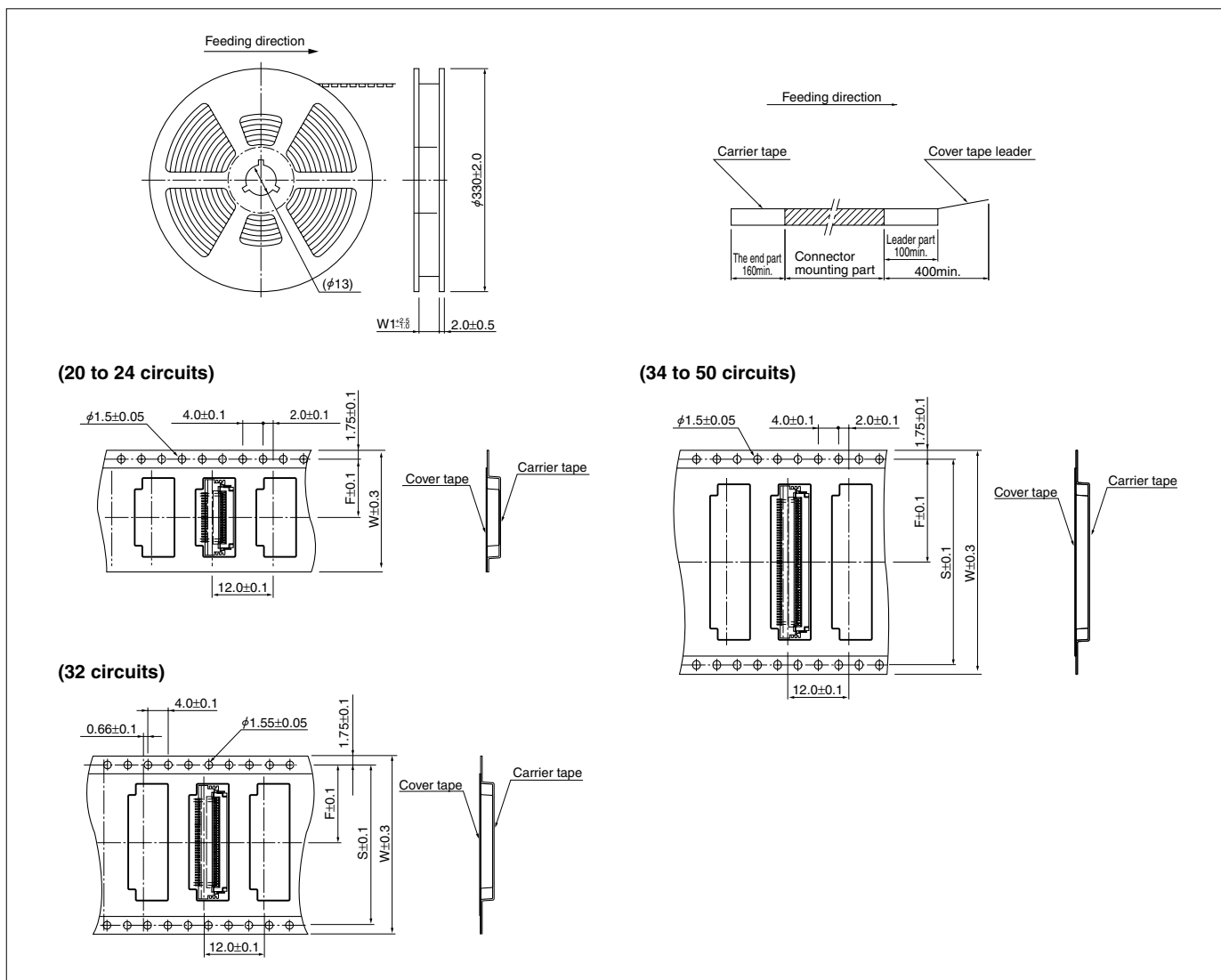
Lead section dimensions of FFC and FPC



Note: N --- Number of circuits

FLZX CONNECTOR

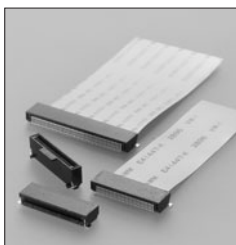
Taping specifications



Circuits	Dimensions (mm)			Reel dimensions (mm)	
	F	S	W	W1	Q'ty / reel
20 to 24	11.5	—	24.0	25.5	2,000
32	14.2	28.4	32.0	33.5	2,000
34 to 50	20.2	40.4	44.0	45.5	2,000

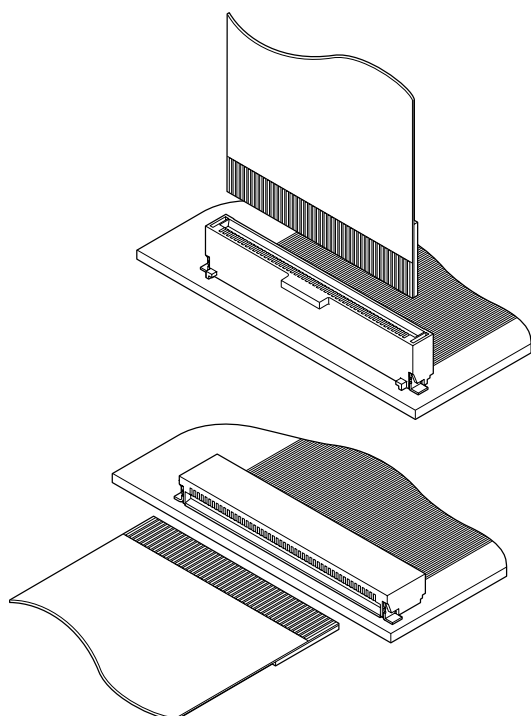
Note:

- Specifications conform to JIS C 0806. The tape width, connector loading recess square hole dimensions, etc. are determined by the number of circuits and external shape of the connector to be loaded.
- Specifications are subject to change without prior notice.



FY CONNECTOR

0.5mm pitch/Connectors for FFC



0.5mm pitch non-ZIF snap-in type FFC connector.

- Heat resisting design suitable for surface mounting
- One-sided contact construction
- Solder tabs
- Embossed tape for automatic mounting

Specifications

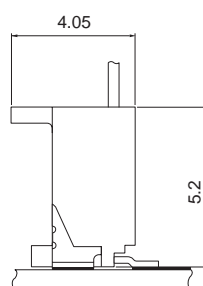
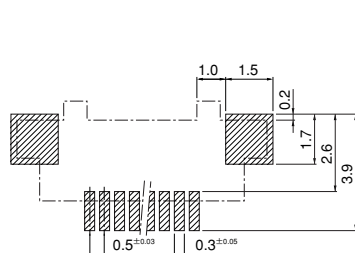
- Current rating: 0.3A AC, DC
- Voltage rating: 30V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/50m Ω max.
After environmental testing/70m Ω max.
- Insulation resistance: 100M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FFC: Conductor pitch/0.5mm
Conductor width/0.3mm
Mating part thickness/0.3 \pm 0.03mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

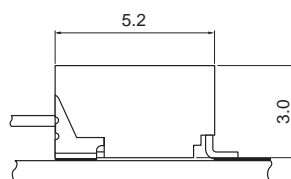
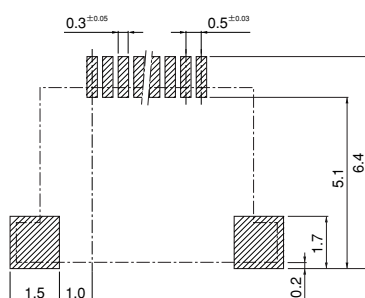
- Ⓜ Recognized E60389
- Ⓢ Certified LR20812
- ⚠ R50006970

PC board layout (viewed from component side) and Assembly layout

Top entry type



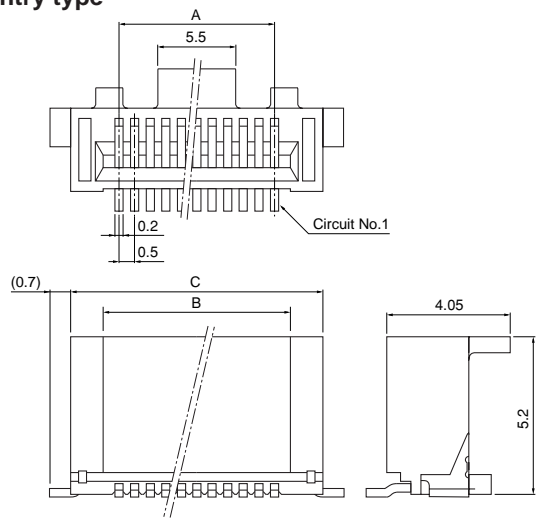
Side entry type



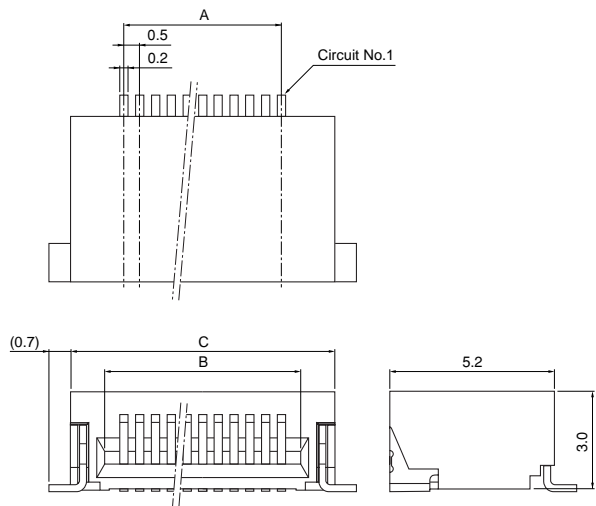
Note: 1. Tolerances are non-cumulative: ± 0.03 mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Connector

Top entry type



Side entry type



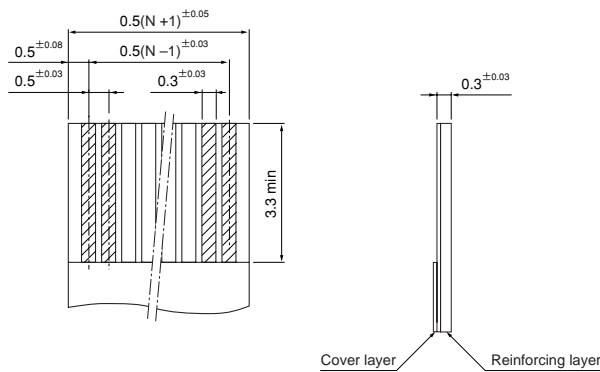
Circuits	Model No.		Dimensions (mm)			Q'ty / reel	
	Top entry type	Side entry type	A	B	C	Top entry type	Side entry type
30	30FY-BMT-TB	30FY-SMT-TF	14.5	15.5	17.7	1,250	2,000
40	40FY-BMT-TB	40FY-SMT-TF	19.5	20.5	22.7	1,250	2,000
50	50FY-BMT-TB	50FY-SMT-TF	24.5	25.5	27.7	1,250	2,000

Material and Finish

Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Housing: PPS, UL94V-0
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

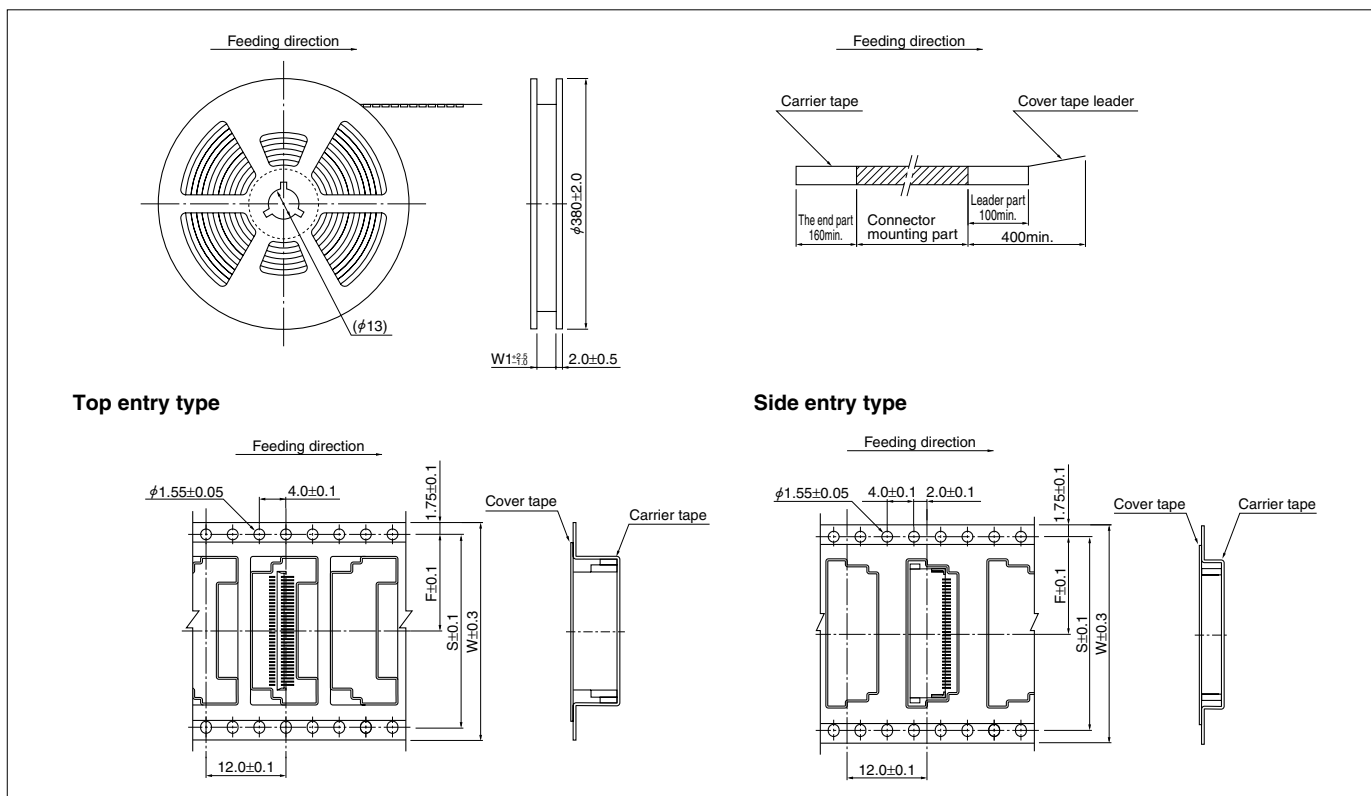
Lead section dimensions of FFC



Note: N --- Number of circuits

FY CONNECTOR

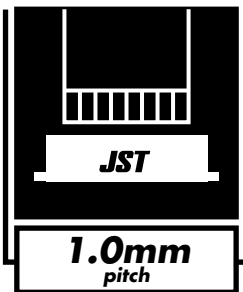
Taping specifications



Circuits	Taping dimensions (mm)			Reel dimensions (mm)
	F	S	W	W1
30	14.2	28.4	32.0	33.5
40, 50	20.2	40.4	44.0	45.5

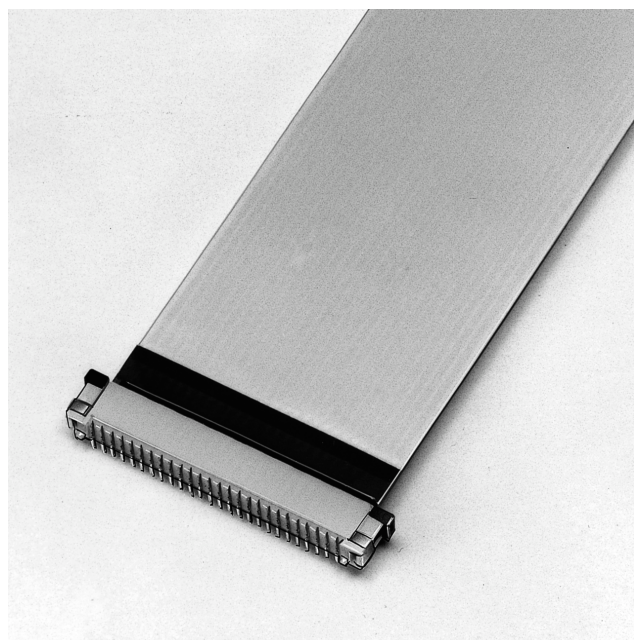
Note:

- Specifications conform to JIS C 0806. The tape width, connector loading recess square hole dimensions, etc. are determined by the number of circuits and external shape of the connector to be loaded.
- Specifications are subject to change without prior notice.

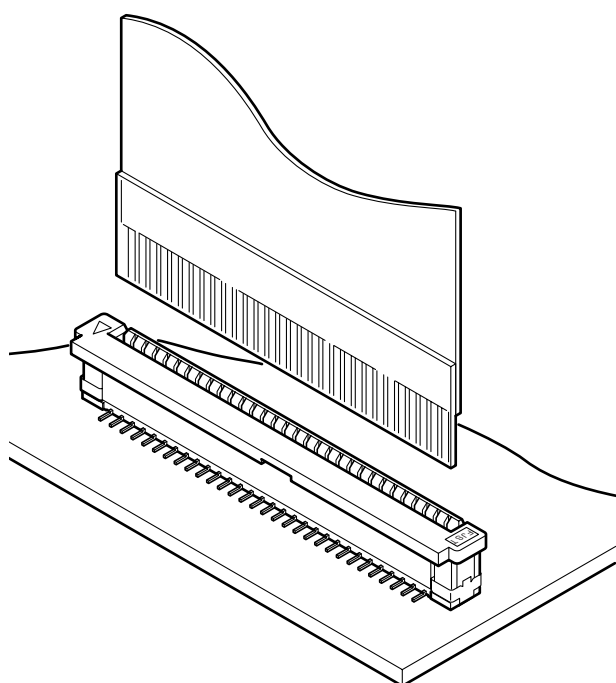


FAZ CONNECTOR

Connectors for FFC



The FAZ series Zero Insertion Force (ZIF) connector has been developed as an SMT version of the existing FMZ connector.



Features

• Zero insertion force mechanism (ZIF)

A ZIF mechanism improves wear resistance and extends the mating life of the connector. By moving the slider into its locking position after the FFC has been inserted into the connector, the FFC leads are securely locked in place.

• SMT configuration

Due to its small pitch and its ability to be surface mounted, this connector meets today's demand for high-density packaging. Top entry and side entry versions are available. Top entry is available with either an in-line or a staggered solder tail footprint whilst the side entry version is available with FFC contact points on either the upper or lower sides.

• Embossed taping for automatic mounting

This connector is supplied in embossed tape packaging, for mounting by automatic placement machines.

Specifications

- Current rating: 1.0A , AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/20m Ω max.
After environmental testing/40m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable FFC: Conductor pitch/1.0mm
Conductor width/0.7mm
Mating part thickness/0.30±0.05mm

<Note>FFC to be actually used should be checked for applicability.

- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

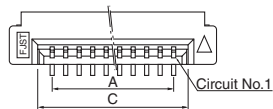
Standards

Recognized E60389

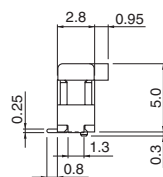
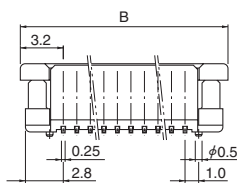
Certified LR20812

Connector

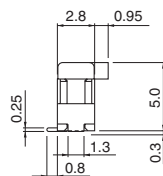
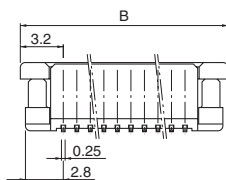
Top entry type <In-line, Normal type>



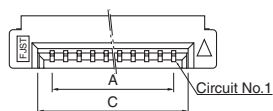
With bosses



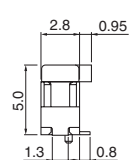
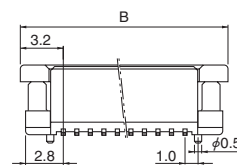
Without bosses



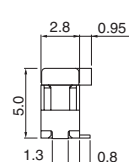
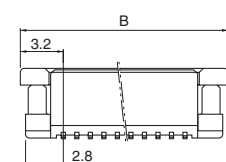
<In-line, Reverse type>



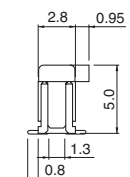
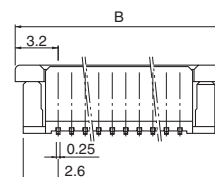
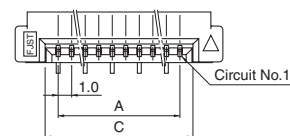
With bosses



Without bosses

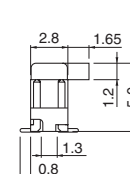
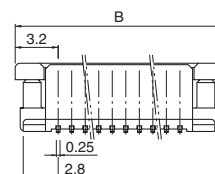
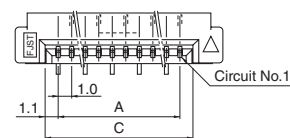


<Staggered, Normal type>

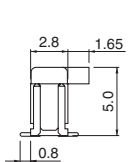
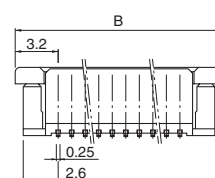
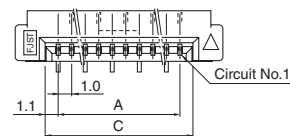


<Staggered, Large slider type>

With solder tab



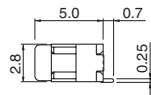
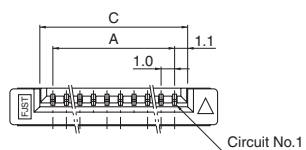
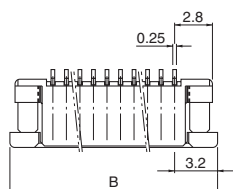
Without solder tab



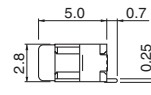
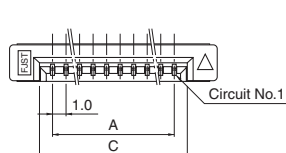
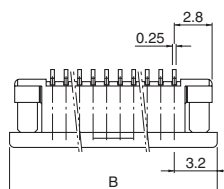
FAZ CONNECTOR

Side entry type

<In-line, Normal type>



<In-line, Reverse type>



Circuits	Model No.									Dimensions (mm)			Q'ty / reel	
	Top entry type						Side entry type							
	In-line				Staggered			In-line		A	B	C	Top entry type	Side entry type
	Normal type		Reverse type		Normal type	Large slider type		Normal type	Reverse type					
	With bosses	Without bosses	With bosses	Without bosses		With solder tab	Without solder tab							
8	—	—	—	—	—	—	—	S08FAZ-SM-TB	S08FAZ-RSM-TB	7.0	13.4	9.2	—	2,000
9	—	—	—	—	T09FAZ-SMT-TF	—	—	S09FAZ-SM-TB	—	8.0	14.4	10.2	1,000	2,000
11	—	—	—	—	—	—	—	S11FAZ-SM-TB	S11FAZ-RSM-TB	10.0	16.4	12.2	—	2,000
16	—	—	—	—	—	—	—	S16FAZ-SM-TB	S16FAZ-RSM-TB	15.0	21.4	17.2	—	2,000
20	—	—	—	—	T20FAZ-SMT-TF	—	—	S20FAZ-SM-TB	S20FAZ-RSM-TB	19.0	25.4	21.2	1,000	2,000
22	—	—	—	—	T22FAZ-SMT-TF	T22FAZ-SMT-F-TF	T22FAZ-SMT-NF-TF	—	S22FAZ-RSM-TB	21.0	27.4	23.2	1,000	2,000
24	—	—	—	—	T24FAZ-SMT-TF	—	—	—	—	23.0	29.4	25.2	1,000	—
25	—	—	—	—	—	—	—	S25FAZ-SM-TB	—	24.0	30.4	26.2	—	2,000
26	T26FAZ-SM-1-TB	T26FAZ-SM-TB	T26FAZ-RSM-1-TF	T26FAZ-RSM-TF	T26FAZ-SMT-TF	T26FAZ-SMT-F-TF	T26FAZ-SMT-NF-TF	S26FAZ-SM-TB	S26FAZ-RSM-TB	25.0	31.4	27.2	1,000	2,000

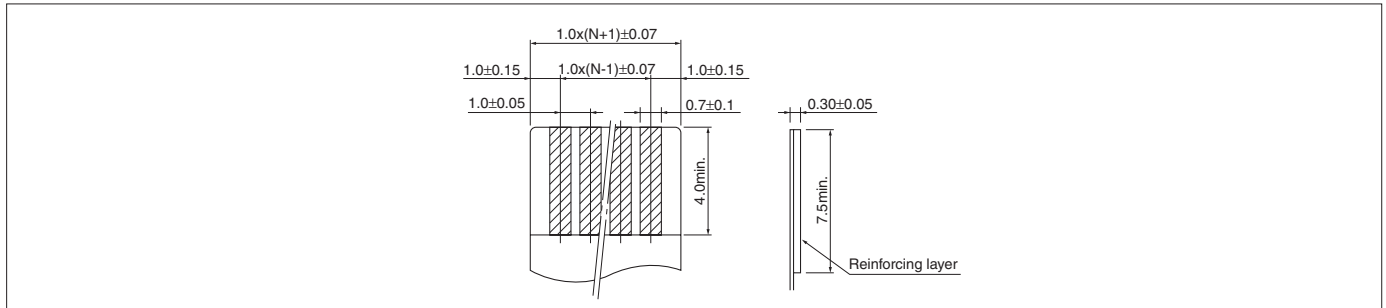
Material and Finish

Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
 Receptacle housing: PA 6T, UL94V-0, ivory (natural)
 Slider housing: PPS, UL94V-0, brown (natural)
 Solder tab: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Note: The products listed above are supplied on embossed tape.

Lead section dimensions of FFC



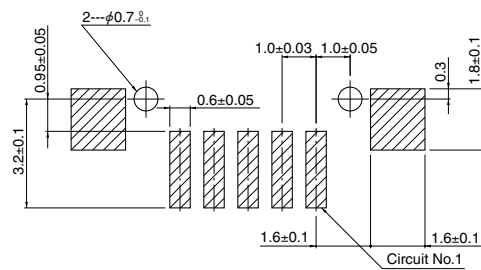
Note: N --- Number of circuits

PC board layout (viewed from component side)

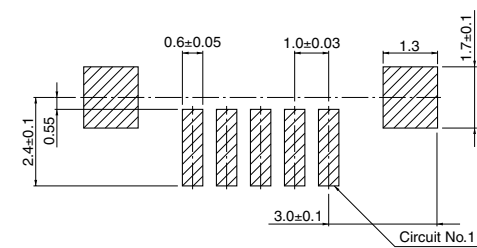
Top entry type

<In-line, Normal type>

With bosses

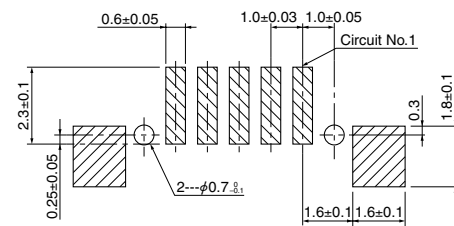


Without bosses

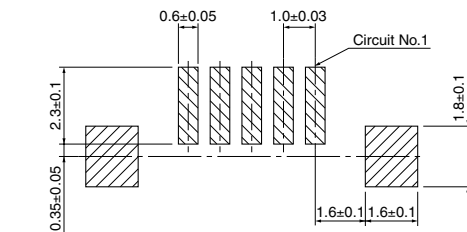


<In-line, Reverse type>

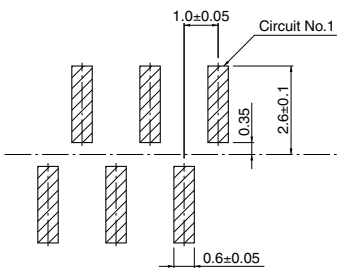
With bosses



Without bosses

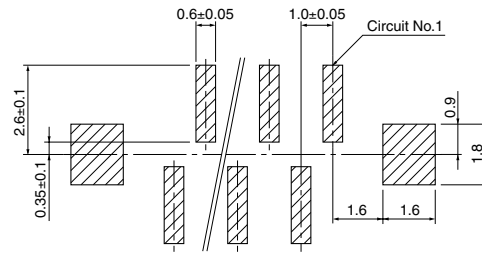


<Staggered, Normal type>

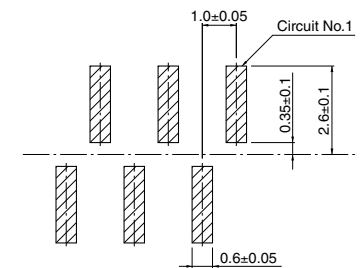


<Staggered, Large slider type>

With solder tab



Without solder tab



Note:

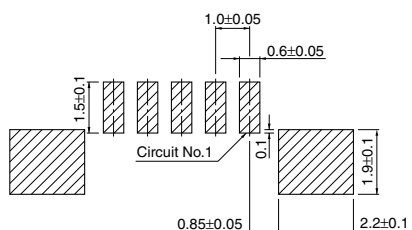
1. Tolerances are non-cumulative: $\pm 0.03 \text{ mm}$ for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

FAZ CONNECTOR

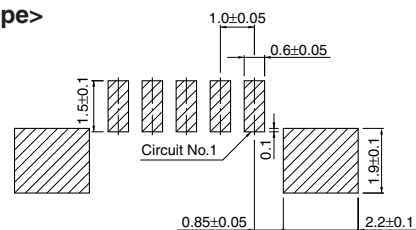
PC board layout (viewed from component side)

Side entry type

<Normal type>



<Reverse type>



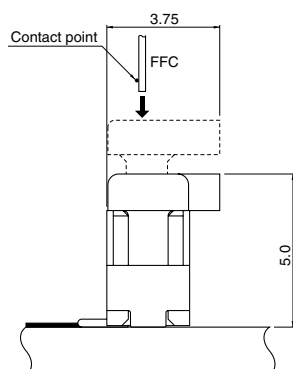
Note:

1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

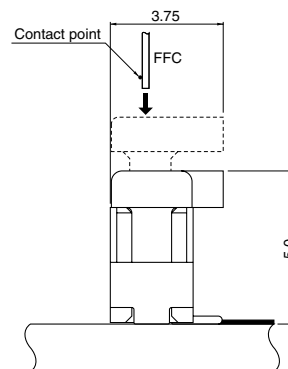
Assembly layout

Top entry type

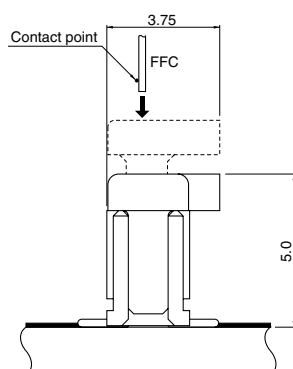
<In-line, Normal type>



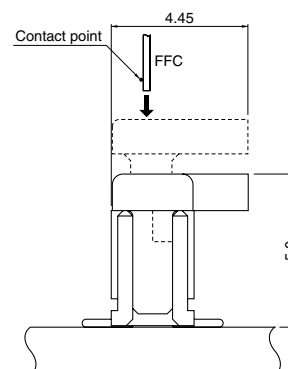
<In-line, Reverse type>



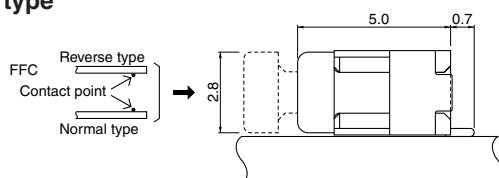
<Staggered, Normal type>

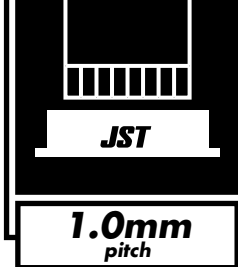


<Staggered, Large slider type>



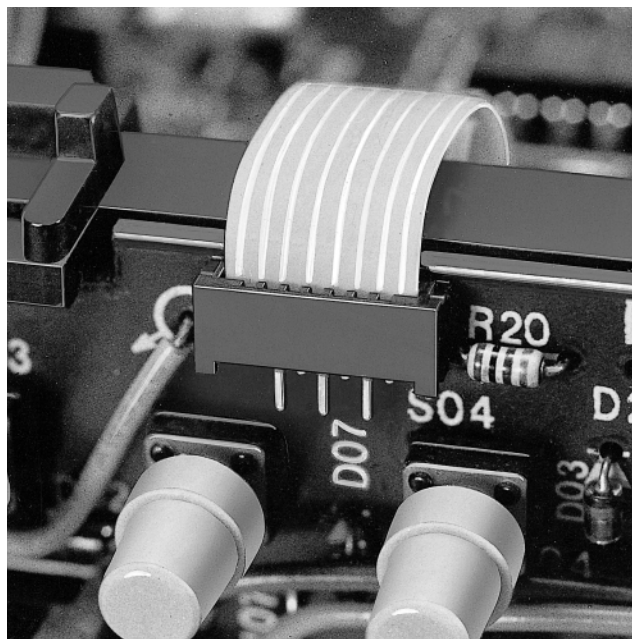
Side entry type



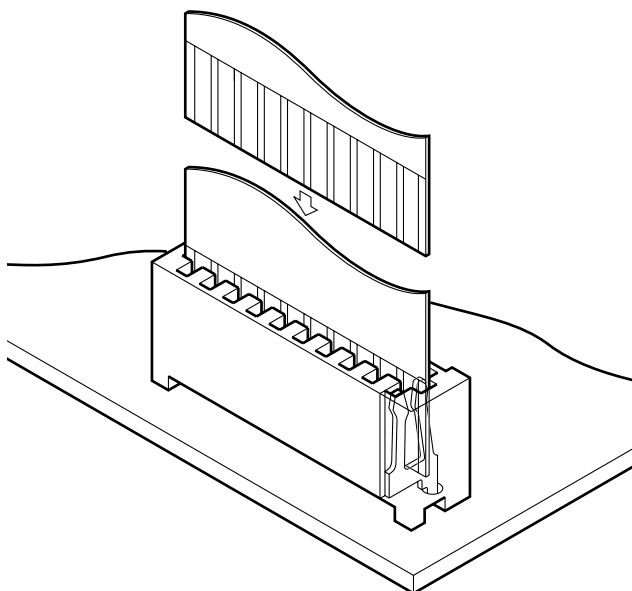


FM CONNECTOR

Connectors for FFC and FPC



The FM connector, a miniature connector with a thickness of only 3.0mm, was developed to connect flexible flat cables (FFC) or flexible printed circuits (FPC) with a lead pitch of 1.0mm to printed circuit boards. It is ideally suited for connections inside high-density equipment or between mechanical units. The contact is constructed to ensure a stable connection and high reliability even under vibration and impact. Connection is easy with a simple snap-in action.



Features

• Compact

Having no complicated cam or slide mechanism, this connector is small with a mounting height of only 4.4mm and a width of 3.0mm.

• Double-sided contact

This connector has highly resilient phosphor bronze contacts, each of which has two independent mating spring members that ensure continuity even when subjected to severe vibration. Because each of the contacts simultaneously mates with both sides of the FFC or FPC, the engineer has greater freedom in designing his circuitry.

• Simple snap-in action

The FFC or FPC are securely connected by simply inserting their leads into the connector.

• Surface mount model (SMT)

This connector is also available in a surface mount configuration. Its housing is made of heat resistant resin so that it is not adversely affected during reflow soldering. Because of its tiny size and ability to be surface mounted, this connector meets the demand for high-density mounting of components inside electronic products.

Specifications

- Current rating: 0.5A AC, DC
 - Voltage rating: 50V AC, DC
 - Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
 - Contact resistance: Initial value/20m Ω max.
After environmental testing/30m Ω max.
 - Insulation resistance: 800M Ω min.
 - Withstanding voltage: 500V AC/minute
 - Applicable FFC and FPC: Conductor pitch/1.0mm
Conductor width/0.7mm
Mating part thickness/0.33^{+0.02}/_{-0.03} mm
 - Applicable PC board thickness: 0.8 to 1.6mm
- <Note>FFC/FPC to be actually used should be checked for applicability.
- * RoHS compliant products are published.
 - * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
 - * Contact JST for details.

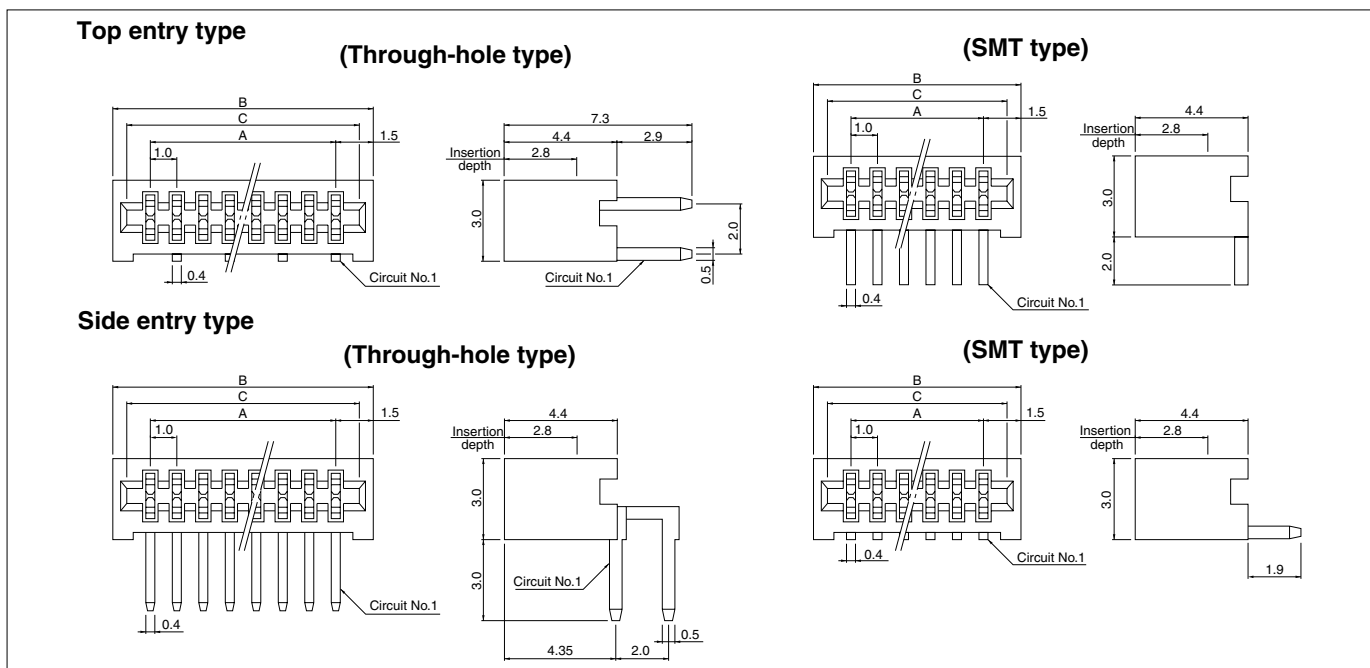
Standards

Recognized E60389

Certified LR20812

FM CONNECTOR

Connector



Through-hole type connector

Circuits	Model No. of Through-hole type		Dimensions (mm)			Q'ty / box
	Top entry type	Side entry type	A	B	C	
3	03FM-1.0BT	03FM-1.0ST	2.0	5.0	4.1	2,000
4	04FM-1.0BT	04FM-1.0ST	3.0	6.0	5.1	2,000
5	05FM-1.0BT	05FM-1.0ST	4.0	7.0	6.1	2,000
6	06FM-1.0BT	06FM-1.0ST	5.0	8.0	7.1	1,000
7	07FM-1.0BT	07FM-1.0ST	6.0	9.0	8.1	1,000
8	08FM-1.0BT	08FM-1.0ST	7.0	10.0	9.1	1,000
10	10FM-1.0BT	10FM-1.0ST	9.0	12.0	11.1	1,000
11	11FM-1.0BT	11FM-1.0ST	10.0	13.0	12.1	1,000
12	12FM-1.0BT	12FM-1.0ST	11.0	14.0	13.1	1,000

SMT type connector on embossed-tape

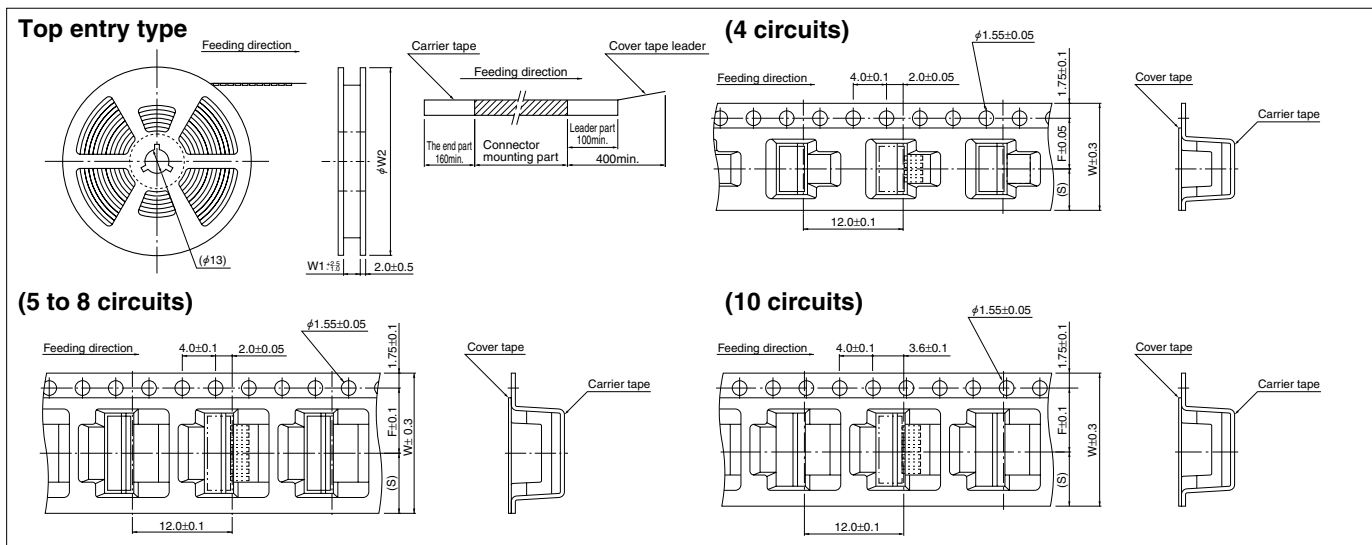
Circuits	Model No.		Dimensions (mm)			Q'ty / reel	
	Top entry type	Side entry type	A	B	C	Top entry type	Side entry type
3	—	03FM-1.0SP-1.9-TF	2.0	5.0	4.1	—	2,500
4	04FM-1.0BP-TF	04FM-1.0SP-1.9-TF	3.0	6.0	5.1	1,000	2,500
5	05FM-1.0BP-TF	05FM-1.0SP-1.9-TF	4.0	7.0	6.1	1,000	2,500
6	06FM-1.0BP-TF	06FM-1.0SP-1.9-TF	5.0	8.0	7.1	1,000	2,500
7	07FM-1.0BP-TF	07FM-1.0SP-1.9-TF	6.0	9.0	8.1	1,000	2,500
8	08FM-1.0BP-TF	08FM-1.0SP-1.9-TF	7.0	10.0	9.1	1,000	2,500
10	10FM-1.0BP-TF-A	10FM-1.0SP-1.9-TF	9.0	12.0	11.1	1,000	2,000
12	—	12FM-1.0SP-1.9-TF	11.0	14.0	13.1	—	2,000

Material and Finish

(Through-hole type) Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Housing: PBT, UL94V-0
(SMT type) Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Housing: PPS, UL94V-0

RoHS compliance This product displays (LF)(SN) on a label.

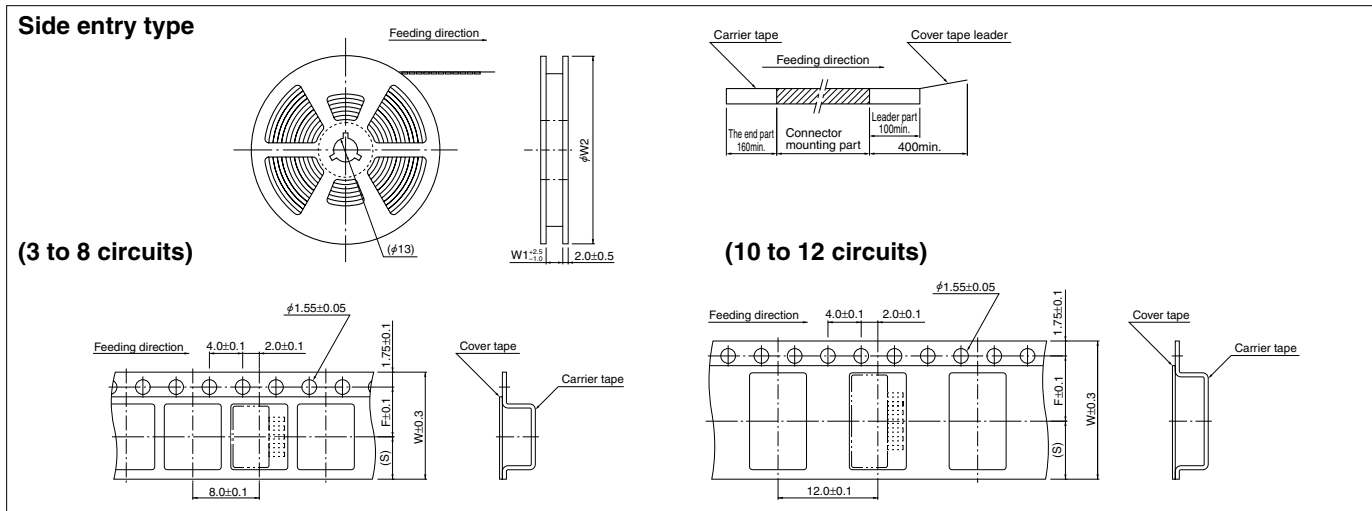
Taping specifications



Circuits	Taping dimensions (mm)			Reel dimensions (mm)		Q'ty /reel
	F	S	W	W1	W2	
4	5.5	4.75	12.0	13.5	330	1,000
5 to 8	7.5	6.75	16.0	17.5	330	1,000
10	11.5	10.75	24.0	25.5	330	1,000

Note:

- Specifications conform to JIS C 0806. The tape width, connector recess dimensions, etc. are determined by the number of circuits and external shape of the connector to be loaded.
- Specifications are subject to change without prior notice.



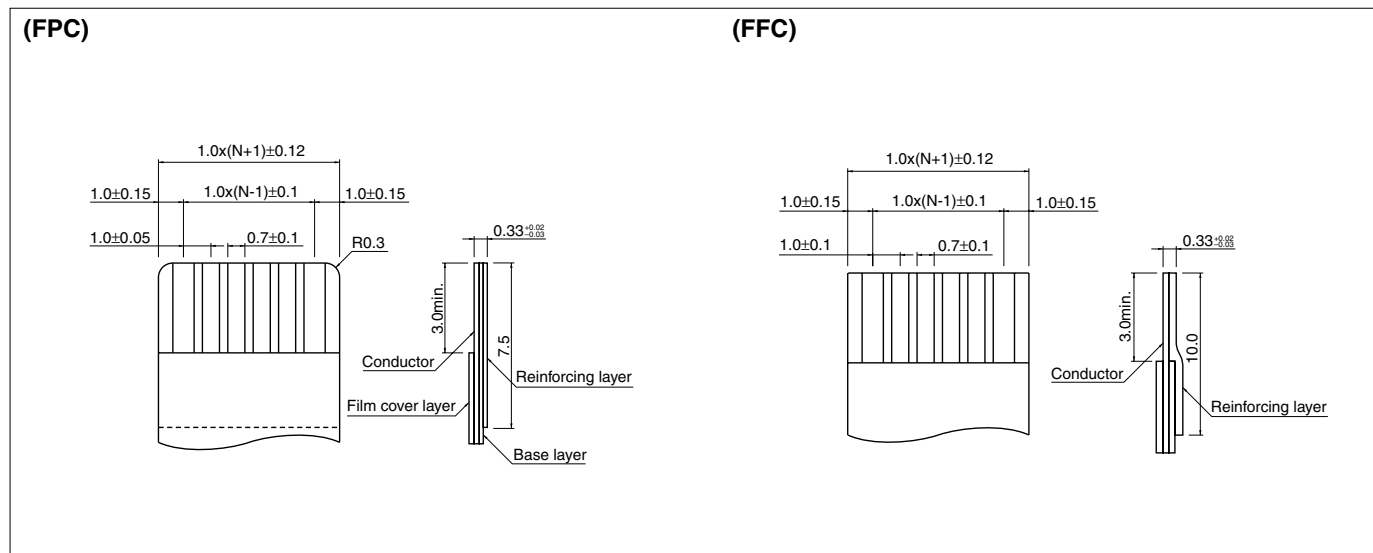
Circuits	Taping dimensions (mm)			Reel dimensions (mm)		Q'ty /reel
	F	S	W	W1	W2	
3 to 4	5.5	4.75	12.0	13.5	330	2,500
5 to 8	7.5	6.75	16.0	17.5	330	2,500
10 to 12	11.5	10.75	24.0	25.5	380	2,000

Note:

- Specifications conform to JIS C 0806. The tape width, connector recess dimensions, etc. are determined by the number of circuits and external shape of the connector to be loaded.
- Specifications are subject to change without prior notice.

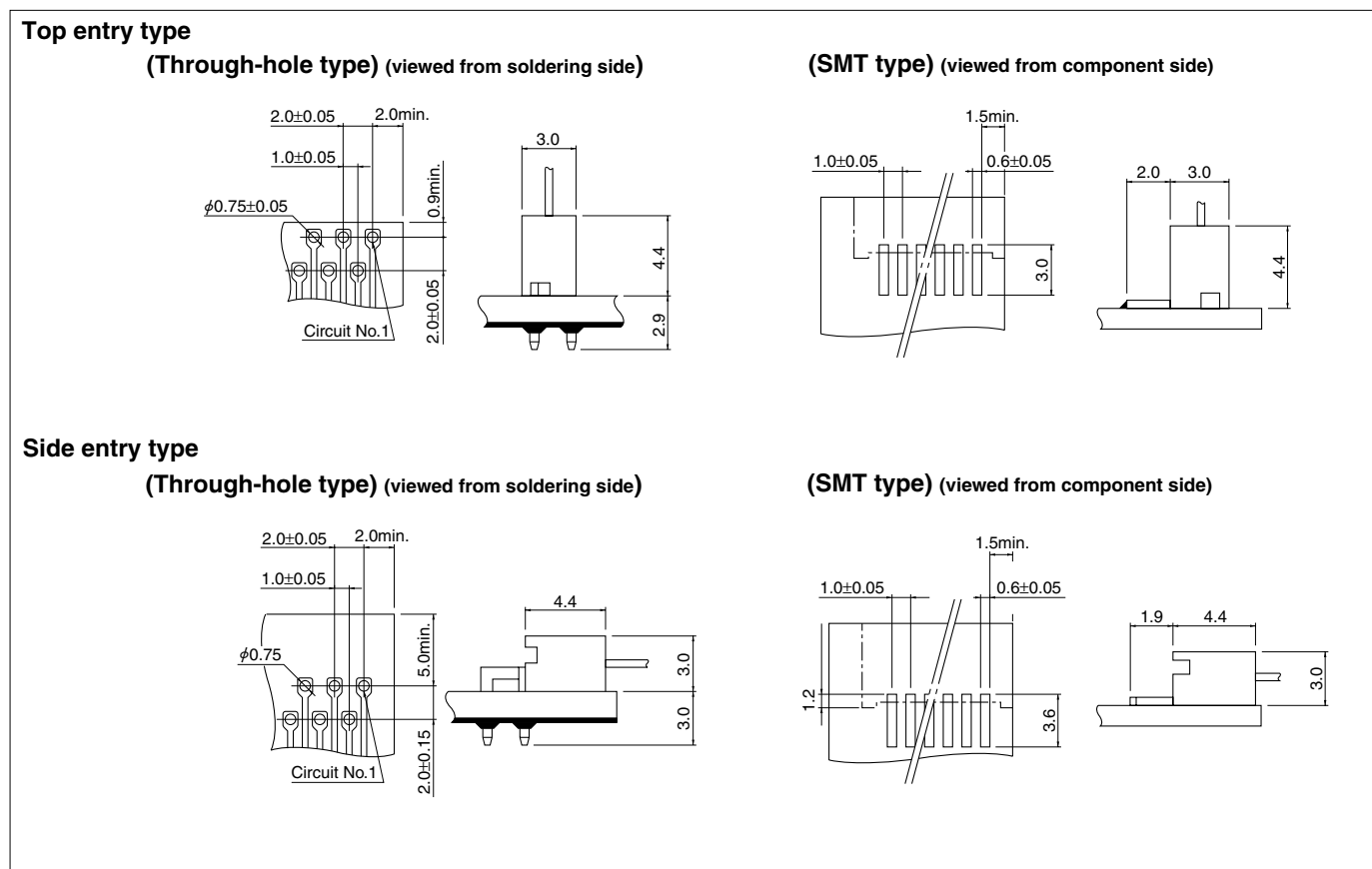
FM CONNECTOR

Lead section dimensions of FFC and FPC

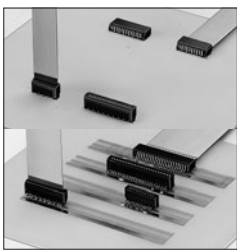


Note: N --- Number of circuits

PC board layout and Assembly layout

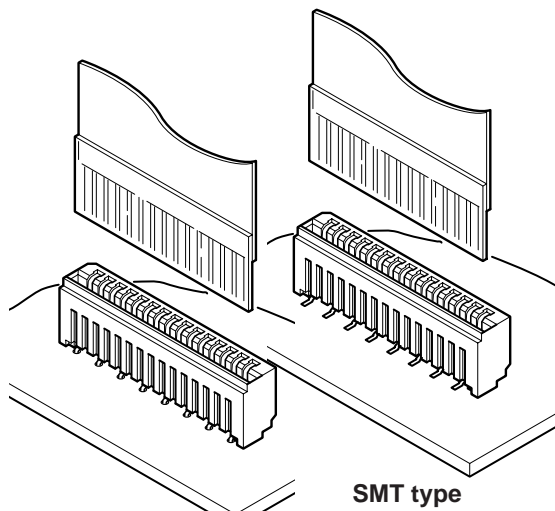


- Note:
1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
 2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline.
 3. It is recommended that surface mount connectors be secured using thermosetting resin or something similar. Contact JST for details.



FMN CONNECTOR

1.0mm pitch/Connectors for FFC



SMT type

Through-hole type

- Compact
- Low insertion force
- Both through-hole and SMT types are available
- Embossed tape for automatic mounting

Specifications

- Current rating: 0.5A DC
- Voltage rating: 50V DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/30m Ω max.
After environmental testing/50m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable FFC: Conductor pitch/1.0mm
Conductor width/0.7mm
Mating part thickness/0.30±0.05mm
- Applicable PC board thickness: 1.6mm

Note: FFC to be actually used should be checked for applicability.

* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

Standards

Recognized E60389

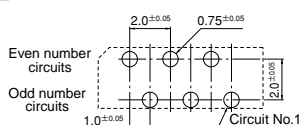
Certified LR20812

PC board layout (viewed from component side) and Assembly layout

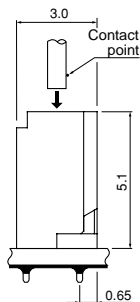
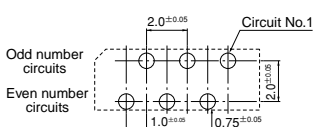
<Through-hole type>

Top entry type

Normal type

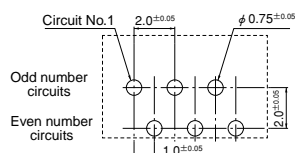


Reverse type

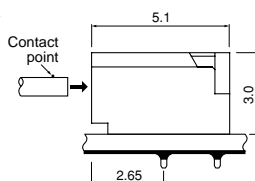
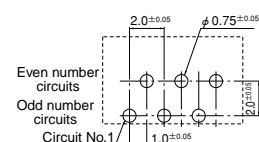


Side entry type

Normal type



Reverse type

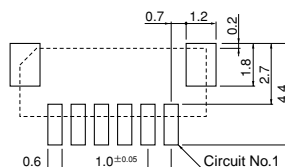


<SMT type>

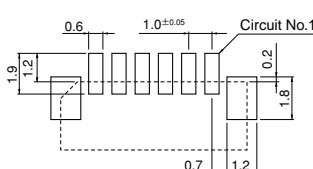
Top entry type

<In-line>

Normal type

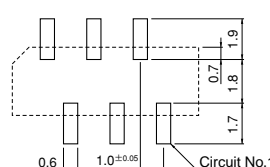


Reverse type

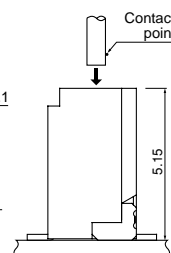
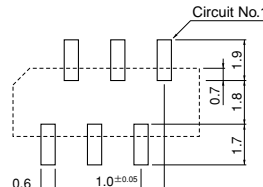


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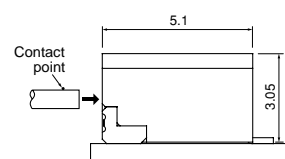
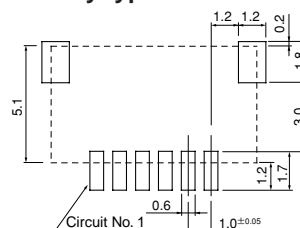
Normal type



Reverse type



Side entry type

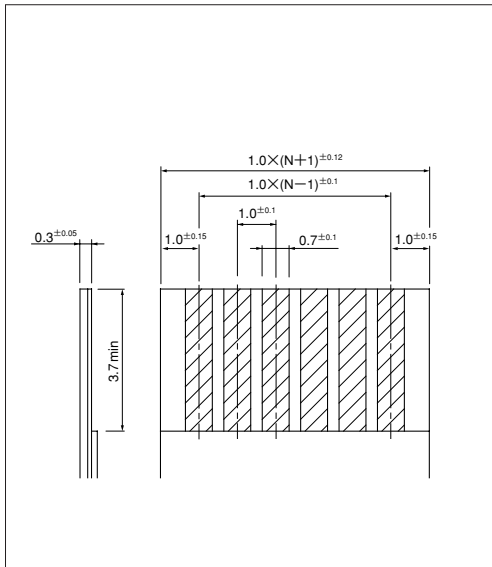


Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline.
Contact JST for details.

FMN CONNECTOR

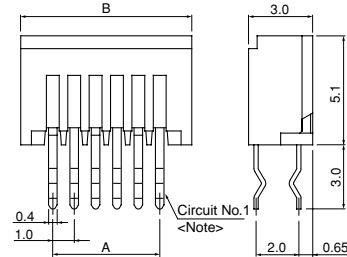
Lead section dimensions of FFC



Note: N --- Number of circuits

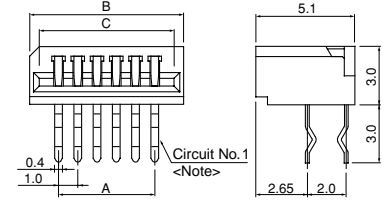
Through-hole type Connector

Top entry type

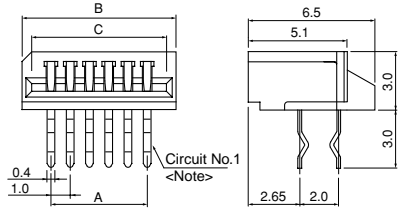


<Note> Normal type: The solder tail for circuit No.1 contact is positioned in front.
Reverse type: The solder tail for circuit No.1 contact is positioned behind.

Side entry type



Side entry type with stop



Circuits	Model No.						Dimensions (mm)			Q'ty / box		
	Top entry type		Side entry type		Side entry type with stop		A	B	C	Top entry type	Side entry type	Side entry type with stop
	Normal type	Reverse type	Normal type	Reverse type	Normal type	Reverse type						
4	04FMN-BTK-A	04FMN-BTRK-A	04FMN-STK-A	04FMN-STRK-A	04FMN-SSTK-A	04FMN-SSTRK-A	3.0	6.0	5.0	3,600	2,160	2,520
5	05FMN-BTK-A	05FMN-BTRK-A	05FMN-STK-A	05FMN-STRK-A	05FMN-SSTK-A	05FMN-SSTRK-A	4.0	7.0	6.0	3,100	1,860	2,170
6	06FMN-BTK-A	06FMN-BTRK-A	06FMN-STK-A	06FMN-STRK-A	06FMN-SSTK-A	06FMN-SSTRK-A	5.0	8.0	7.0	2,700	1,620	1,890
7	07FMN-BTK-A	07FMN-BTRK-A	07FMN-STK-A	07FMN-STRK-A	07FMN-SSTK-A	07FMN-SSTRK-A	6.0	9.0	8.0	2,400	1,440	1,680
8	08FMN-BTK-A	08FMN-BTRK-A	08FMN-STK-A	08FMN-STRK-A	08FMN-SSTK-A	08FMN-SSTRK-A	7.0	10.0	9.0	2,100	1,260	1,470
9	09FMN-BTK-A	09FMN-BTRK-A	09FMN-STK-A	09FMN-STRK-A	09FMN-SSTK-A	09FMN-SSTRK-A	8.0	11.0	10.0	1,900	1,140	1,330
10	10FMN-BTK-A	10FMN-BTRK-A	10FMN-STK-A	10FMN-STRK-A	10FMN-SSTK-A	10FMN-SSTRK-A	9.0	12.0	11.0	1,800	1,080	1,260
11	11FMN-BTK-A	11FMN-BTRK-A	11FMN-STK-A	11FMN-STRK-A	11FMN-SSTK-A	11FMN-SSTRK-A	10.0	13.0	12.0	1,600	960	1,120
12	12FMN-BTK-A	12FMN-BTRK-A	12FMN-STK-A	12FMN-STRK-A	12FMN-SSTK-A	12FMN-SSTRK-A	11.0	14.0	13.0	1,500	900	1,050
13	13FMN-BTK-A	13FMN-BTRK-A	13FMN-STK-A	13FMN-STRK-A	13FMN-SSTK-A	13FMN-SSTRK-A	12.0	15.0	14.0	1,400	840	980
14	14FMN-BTK-A	14FMN-BTRK-A	14FMN-STK-A	14FMN-STRK-A	14FMN-SSTK-A	14FMN-SSTRK-A	13.0	16.0	15.0	1,300	780	910
15	15FMN-BTK-A	15FMN-BTRK-A	15FMN-STK-A	15FMN-STRK-A	15FMN-SSTK-A	15FMN-SSTRK-A	14.0	17.0	16.0	1,200	720	840
16	16FMN-BTK-A	16FMN-BTRK-A	16FMN-STK-A	16FMN-STRK-A	16FMN-SSTK-A	16FMN-SSTRK-A	15.0	18.0	17.0	1,200	720	840
17	17FMN-BTK-A	17FMN-BTRK-A	17FMN-STK-A	17FMN-STRK-A	17FMN-SSTK-A	17FMN-SSTRK-A	16.0	19.0	18.0	1,100	660	770
18	18FMN-BTK-A	18FMN-BTRK-A	18FMN-STK-A	18FMN-STRK-A	18FMN-SSTK-A	18FMN-SSTRK-A	17.0	20.0	19.0	1,000	600	700
19	19FMN-BTK-A	19FMN-BTRK-A	19FMN-STK-A	19FMN-STRK-A	19FMN-SSTK-A	19FMN-SSTRK-A	18.0	21.0	20.0	1,000	600	700
20	20FMN-BTK-A	20FMN-BTRK-A	20FMN-STK-A	20FMN-STRK-A	20FMN-SSTK-A	20FMN-SSTRK-A	19.0	22.0	21.0	900	540	630
21	21FMN-BTK-A	21FMN-BTRK-A	21FMN-STK-A	21FMN-STRK-A	21FMN-SSTK-A	21FMN-SSTRK-A	20.0	23.0	22.0	900	540	630
22	22FMN-BTK-A	22FMN-BTRK-A	22FMN-STK-A	22FMN-STRK-A	22FMN-SSTK-A	22FMN-SSTRK-A	21.0	24.0	23.0	900	540	630
23	23FMN-BTK-A	23FMN-BTRK-A	23FMN-STK-A	23FMN-STRK-A	23FMN-SSTK-A	23FMN-SSTRK-A	22.0	25.0	24.0	800	480	560
24	24FMN-BTK-A	24FMN-BTRK-A	24FMN-STK-A	24FMN-STRK-A	24FMN-SSTK-A	24FMN-SSTRK-A	23.0	26.0	25.0	800	480	560
25	25FMN-BTK-A	25FMN-BTRK-A	25FMN-STK-A	25FMN-STRK-A	25FMN-SSTK-A	25FMN-SSTRK-A	24.0	27.0	26.0	800	480	560
26	26FMN-BTK-A	26FMN-BTRK-A	26FMN-STK-A	26FMN-STRK-A	26FMN-SSTK-A	26FMN-SSTRK-A	25.0	28.0	27.0	700	420	490
27	27FMN-BTK-A	27FMN-BTRK-A	27FMN-STK-A	27FMN-STRK-A	27FMN-SSTK-A	27FMN-SSTRK-A	26.0	29.0	28.0	700	420	490
28	28FMN-BTK-A	28FMN-BTRK-A	28FMN-STK-A	28FMN-STRK-A	28FMN-SSTK-A	28FMN-SSTRK-A	27.0	30.0	29.0	700	420	490
29	29FMN-BTK-A	29FMN-BTRK-A	29FMN-STK-A	29FMN-STRK-A	29FMN-SSTK-A	29FMN-SSTRK-A	28.0	31.0	30.0	700	420	490
30	30FMN-BTK-A	30FMN-BTRK-A	30FMN-STK-A	30FMN-STRK-A	30FMN-SSTK-A	30FMN-SSTRK-A	29.0	32.0	31.0	600	360	420
31	31FMN-BTK-A	31FMN-BTRK-A	31FMN-STK-A	31FMN-STRK-A	31FMN-SSTK-A	31FMN-SSTRK-A	30.0	33.0	32.0	600	360	420
32	32FMN-BTK-A	32FMN-BTRK-A	32FMN-STK-A	32FMN-STRK-A	32FMN-SSTK-A	32FMN-SSTRK-A	31.0	34.0	33.0	600	360	420
33	33FMN-BTK-A	33FMN-BTRK-A	33FMN-STK-A	33FMN-STRK-A	33FMN-SSTK-A	33FMN-SSTRK-A	32.0	35.0	34.0	600	360	420
34	34FMN-BTK-A	34FMN-BTRK-A	34FMN-STK-A	34FMN-STRK-A	34FMN-SSTK-A	34FMN-SSTRK-A	33.0	36.0	35.0	600	360	420
35	35FMN-BTK-A	35FMN-BTRK-A	35FMN-STK-A	35FMN-STRK-A	35FMN-SSTK-A	35FMN-SSTRK-A	34.0	37.0	36.0	500	300	350
36	36FMN-BTK-A	36FMN-BTRK-A	36FMN-STK-A	36FMN-STRK-A	36FMN-SSTK-A	36FMN-SSTRK-A	35.0	38.0	37.0	500	300	350
37	37FMN-BTK-A	37FMN-BTRK-A	37FMN-STK-A	37FMN-STRK-A	37FMN-SSTK-A	37FMN-SSTRK-A	36.0	39.0	38.0	500	300	350
38	38FMN-BTK-A	38FMN-BTRK-A	38FMN-STK-A	38FMN-STRK-A	38FMN-SSTK-A	38FMN-SSTRK-A	37.0	40.0	39.0	500	300	350
39	39FMN-BTK-A	39FMN-BTRK-A	39FMN-STK-A	39FMN-STRK-A	39FMN-SSTK-A	39FMN-SSTRK-A	38.0	41.0	40.0	500	300	350
40	40FMN-BTK-A	40FMN-BTRK-A	40FMN-STK-A	40FMN-STRK-A	40FMN-SSTK-A	40FMN-SSTRK-A	39.0	42.0	41.0	500	300	350

Material and Finish

Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Housing: 4 to 22 circuits/PBT, UL94V-0, Normal type---gray Reverse type---brown
23 to 40 circuits/PA 6T, UL94V-0, Normal type---gray Reverse type---black

RoHS compliance This product displays (LF)(SN) on a label.

FMN CONNECTOR

SMT type Connector

Top entry type

Side entry type

<In-line>

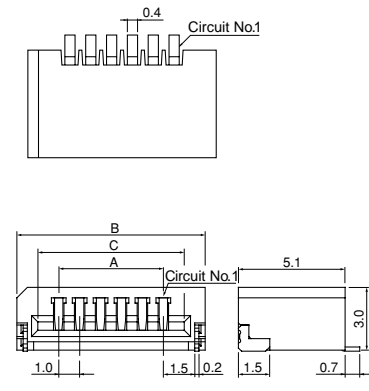
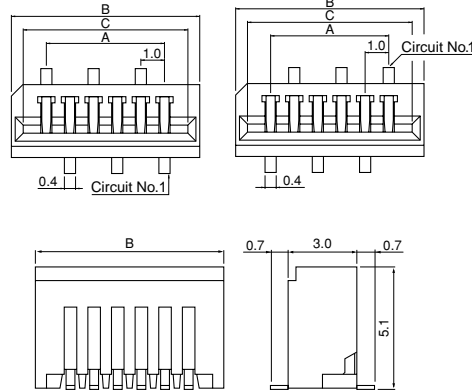
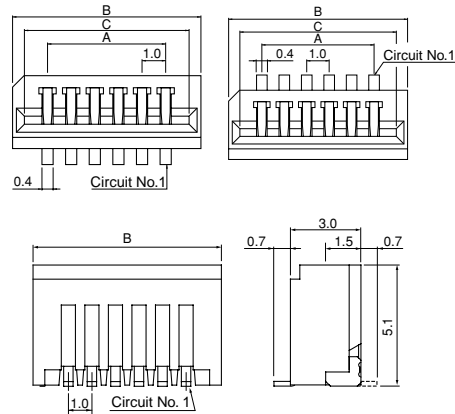
<Staggered>

Normal type

Reverse type

Normal type

Reverse type



Circuits	Model No.					Dimensions (mm)				Q'ty / reel	
	Top entry type										
	Single-row		Staggered		Side entry type	A	B		C	Top entry type	Side entry type
	Normal type	Reverse type	Normal type	Reverse type			Top entry type	Side entry type			
4	04FMN-BMT-A-TF	04FMN-BMTR-A-TB	04FMN-BMTTN-A-TF	04FMN-BMTTR-A-TB	04FMN-SMT-A-TF	3.0	6.0	7.0	5.0	1,000	2,000
5	05FMN-BMT-A-TF	05FMN-BMTR-A-TB	05FMN-BMTTN-A-TF	05FMN-BMTTR-A-TB	05FMN-SMT-A-TF	4.0	7.0	8.0	6.0	1,000	2,000
6	06FMN-BMT-A-TF	06FMN-BMTR-A-TB	06FMN-BMTTN-A-TF	06FMN-BMTTR-A-TB	06FMN-SMT-A-TF	5.0	8.0	9.0	7.0	1,000	2,000
7	07FMN-BMT-A-TF	07FMN-BMTR-A-TB	07FMN-BMTTN-A-TF	07FMN-BMTTR-A-TB	07FMN-SMT-A-TF	6.0	9.0	10.0	8.0	1,000	2,000
8	08FMN-BMT-A-TF	08FMN-BMTR-A-TB	08FMN-BMTTN-A-TF	08FMN-BMTTR-A-TB	08FMN-SMT-A-TF	7.0	10.0	11.0	9.0	1,000	2,000
9	09FMN-BMT-A-TF	09FMN-BMTR-A-TB	09FMN-BMTTN-A-TF	09FMN-BMTTR-A-TB	09FMN-SMT-A-TF	8.0	11.0	12.0	10.0	1,000	2,000
10	10FMN-BMT-A-TF	10FMN-BMTR-A-TB	10FMN-BMTTN-A-TF	10FMN-BMTTR-A-TB	10FMN-SMT-A-TF	9.0	12.0	13.0	11.0	1,000	2,000
11	11FMN-BMT-A-TF	11FMN-BMTR-A-TB	11FMN-BMTTN-A-TF	11FMN-BMTTR-A-TB	11FMN-SMT-A-TF	10.0	13.0	14.0	12.0	1,000	2,000
12	12FMN-BMT-A-TF	12FMN-BMTR-A-TB	12FMN-BMTTN-A-TF	12FMN-BMTTR-A-TB	12FMN-SMT-A-TF	11.0	14.0	15.0	13.0	1,000	2,000
13	13FMN-BMT-A-TF	13FMN-BMTR-A-TB	13FMN-BMTTN-A-TF	13FMN-BMTTR-A-TB	13FMN-SMT-A-TF	12.0	15.0	16.0	14.0	1,000	2,000
14	14FMN-BMT-A-TF	14FMN-BMTR-A-TB	14FMN-BMTTN-A-TF	14FMN-BMTTR-A-TB	14FMN-SMT-A-TF	13.0	16.0	17.0	15.0	1,000	2,000
15	15FMN-BMT-A-TF	15FMN-BMTR-A-TB	15FMN-BMTTN-A-TF	15FMN-BMTTR-A-TB	15FMN-SMT-A-TF	14.0	17.0	18.0	16.0	1,000	2,000
16	16FMN-BMT-A-TF	16FMN-BMTR-A-TB	16FMN-BMTTN-A-TF	16FMN-BMTTR-A-TB	16FMN-SMT-A-TF	15.0	18.0	19.0	17.0	1,000	2,000
17	17FMN-BMT-A-TF	17FMN-BMTR-A-TB	17FMN-BMTTN-A-TF	17FMN-BMTTR-A-TB	17FMN-SMT-A-TF	16.0	19.0	20.0	18.0	1,000	2,000
18	18FMN-BMT-A-TF	18FMN-BMTR-A-TB	18FMN-BMTTN-A-TF	18FMN-BMTTR-A-TB	18FMN-SMT-A-TF	17.0	20.0	21.0	19.0	1,000	2,000
19	19FMN-BMT-A-TF	19FMN-BMTR-A-TB	19FMN-BMTTN-A-TF	19FMN-BMTTR-A-TB	19FMN-SMT-A-TF	18.0	21.0	22.0	20.0	1,000	2,000
20	20FMN-BMT-A-TF	20FMN-BMTR-A-TB	20FMN-BMTTN-A-TF	20FMN-BMTTR-A-TB	20FMN-SMT-A-TF	19.0	22.0	23.0	21.0	1,000	2,000
21	21FMN-BMT-A-TF	21FMN-BMTR-A-TB	21FMN-BMTTN-A-TF	21FMN-BMTTR-A-TB	21FMN-SMT-A-TF	20.0	23.0	24.0	22.0	1,000	2,000
22	22FMN-BMT-A-TF	22FMN-BMTR-A-TB	22FMN-BMTTN-A-TF	22FMN-BMTTR-A-TB	22FMN-SMT-A-TF	21.0	24.0	25.0	23.0	1,000	2,000
23	23FMN-BMT-A-TF	23FMN-BMTR-A-TB	23FMN-BMTTN-A-TF	23FMN-BMTTR-A-TB	23FMN-SMT-A-TF	22.0	25.0	26.0	24.0	1,000	2,000
24	24FMN-BMT-A-TF	24FMN-BMTR-A-TB	24FMN-BMTTN-A-TF	24FMN-BMTTR-A-TB	24FMN-SMT-A-TF	23.0	26.0	27.0	25.0	1,000	2,000
25	25FMN-BMT-A-TF	25FMN-BMTR-A-TB	25FMN-BMTTN-A-TF	25FMN-BMTTR-A-TB	25FMN-SMT-A-TF	24.0	27.0	28.0	26.0	1,000	2,000
26	26FMN-BMT-A-TF	26FMN-BMTR-A-TB	26FMN-BMTTN-A-TF	26FMN-BMTTR-A-TB	26FMN-SMT-A-TF	25.0	28.0	29.0	27.0	1,000	2,000
27	27FMN-BMT-A-TF	27FMN-BMTR-A-TB	27FMN-BMTTN-A-TF	27FMN-BMTTR-A-TB	27FMN-SMT-A-TF	26.0	29.0	30.0	28.0	1,000	2,000
28	28FMN-BMT-A-TF	28FMN-BMTR-A-TB	28FMN-BMTTN-A-TF	28FMN-BMTTR-A-TB	28FMN-SMT-A-TF	27.0	30.0	31.0	29.0	1,000	2,000
29	29FMN-BMT-A-TF	29FMN-BMTR-A-TB	29FMN-BMTTN-A-TF	29FMN-BMTTR-A-TB	29FMN-SMT-A-TF	28.0	31.0	32.0	30.0	1,000	2,000
30	30FMN-BMT-A-TF	30FMN-BMTR-A-TB	30FMN-BMTTN-A-TF	30FMN-BMTTR-A-TB	30FMN-SMT-A-TF	29.0	32.0	33.0	31.0	1,000	2,000
31	31FMN-BMT-A-TF	31FMN-BMTR-A-TB	31FMN-BMTTN-A-TF	31FMN-BMTTR-A-TB	31FMN-SMT-A-TF	30.0	33.0	34.0	32.0	1,000	2,000
32	32FMN-BMT-A-TF	32FMN-BMTR-A-TB	32FMN-BMTTN-A-TF	32FMN-BMTTR-A-TB	32FMN-SMT-A-TF	31.0	34.0	35.0	33.0	1,000	2,000
33	33FMN-BMT-A-TF	33FMN-BMTR-A-TB	33FMN-BMTTN-A-TF	33FMN-BMTTR-A-TB	33FMN-SMT-A-TF	32.0	35.0	36.0	34.0	1,000	2,000
34	34FMN-BMT-A-TF	34FMN-BMTR-A-TB	34FMN-BMTTN-A-TF	34FMN-BMTTR-A-TB	34FMN-SMT-A-TF	33.0	36.0	37.0	35.0	1,000	2,000
35	35FMN-BMT-A-TF	35FMN-BMTR-A-TB	35FMN-BMTTN-A-TF	35FMN-BMTTR-A-TB	35FMN-SMT-A-TF	34.0	37.0	38.0	36.0	1,000	2,000
36	36FMN-BMT-A-TF	36FMN-BMTR-A-TB	36FMN-BMTTN-A-TF	36FMN-BMTTR-A-TB	36FMN-SMT-A-TF	35.0	38.0	39.0	37.0	1,000	2,000
37	37FMN-BMT-A-TF	37FMN-BMTR-A-TB	37FMN-BMTTN-A-TF	37FMN-BMTTR-A-TB	37FMN-SMT-A-TF	36.0	39.0	40.0	38.0	1,000	2,000
38	38FMN-BMT-A-TF	38FMN-BMTR-A-TB	38FMN-BMTTN-A-TF	38FMN-BMTTR-A-TB	38FMN-SMT-A-TF	37.0	40.0	41.0	39.0	1,000	2,000
39	39FMN-BMT-A-TF	39FMN-BMTR-A-TB	39FMN-BMTTN-A-TF	39FMN-BMTTR-A-TB	39FMN-SMT-A-TF	38.0	41.0	42.0	40.0	1,000	2,000
40	40FMN-BMT-A-TF	40FMN-BMTR-A-TB	40FMN-BMTTN-A-TF	40FMN-BMTTR-A-TB	40FMN-SMT-A-TF	39.0	42.0	43.0	41.0	1,000	2,000

Material and Finish

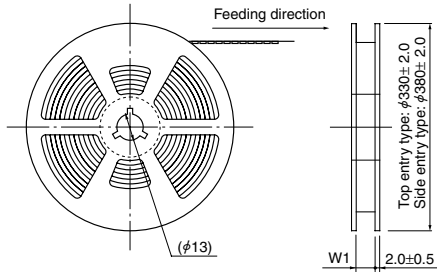
Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Housing: PA 6T, UL94V-0, black
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

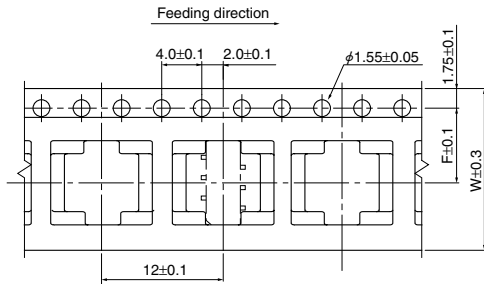
Note: 1. The products listed above are supplied on embossed tape.

2. Contact JST for the top entry type headers with suction cap.

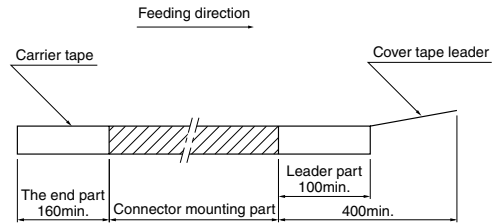
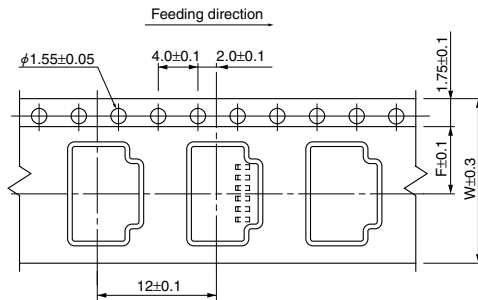
Taping specifications



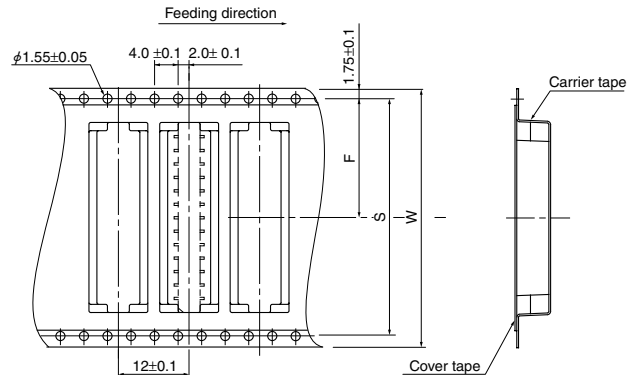
Top entry type (4 to 15 circuits)



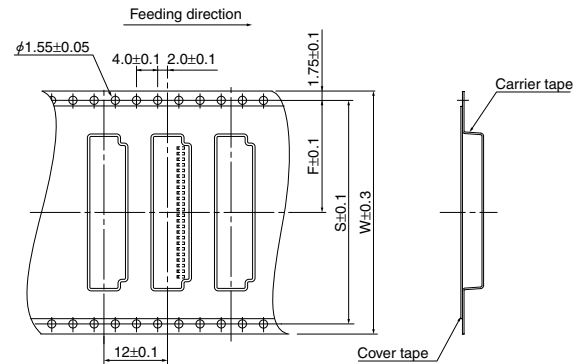
Side entry type (4 to 14 circuits)



(16 to 40 circuits)



(15 to 40 circuits)



Top entry type

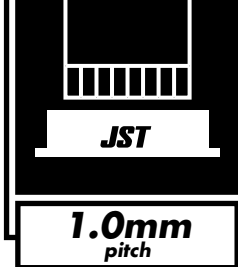
Circuits	Taping dimensions (mm)				Q'ty / reel
	F	S	W	W1	
4 to 7	7.5	—	16.0	17.5	1,000
8 to 15	11.5	—	24.0	25.5	1,000
16 to 19	14.2	28.4	32.0	33.5	1,000
20 to 31	20.2	40.4	44.0	45.5	1,000
32 to 40	26.2	52.4	56.0	57.5	1,000

Side entry type

Circuits	Taping dimensions (mm)				Q'ty / reel
	F	S	W	W1	
4 to 6	7.5	—	16.0	17.5	2,000
7 to 14	11.5	—	24.0	25.5	2,000
15 to 18	14.2	28.4	32.0	33.5	2,000
19 to 30	20.2	40.4	44.0	45.5	2,000
31 to 40	26.2	52.4	56.0	57.5	2,000

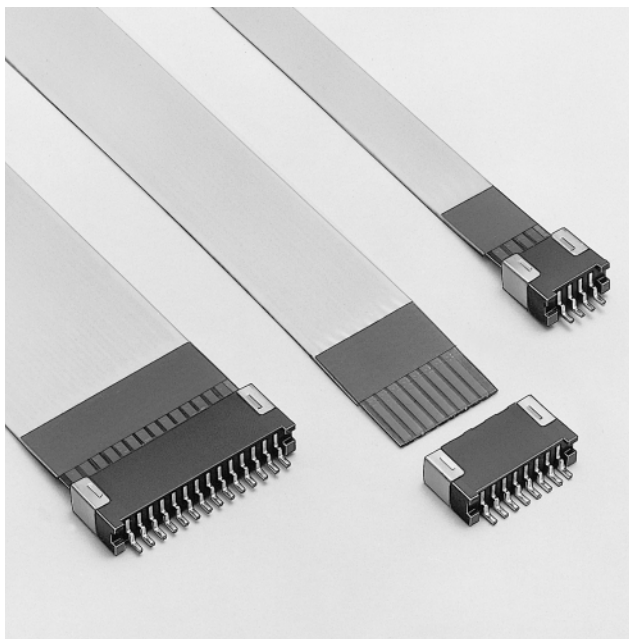
Note:

- Specifications conform to JIS C 0806. The tape width, connector recess dimensions, etc. are determined by the number of circuits and external shape of the connector to be loaded.
- Specifications are subject to change without prior notice.

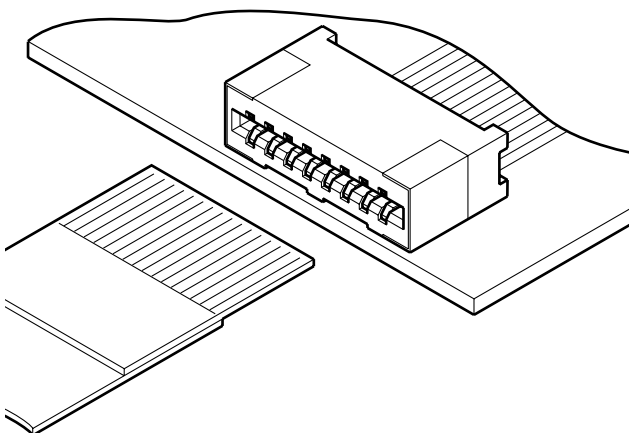


FMS CONNECTOR

Connectors for FFC



The FMS series connectors are designed for surface mounting (SMT) and to meet the demand for high-density packaging. They are miniature connectors with a height of only 2.8mm, and can be supplied packaged in embossed tape to facilitate automatic mounting.



Features

• Compact

This connector measures 1.0mm in pitch, 2.8mm in mounting height, and 6.3mm in width.

• Double-sided contact

This connector has highly resilient phosphor bronze contacts, each of which has two independent mating spring members that ensure continuity even when subjected to severe vibration. Because each of the contacts simultaneously mates with both sides of the FFC, the engineer has greater freedom in designing his circuitry.

• Simple snap-in action

The FFC is securely connected by simply inserting its leads into the connector.

• SMT configuration

Its housing is made of heat resistant resin so that it is not adversely affected during reflow soldering. Because of its tiny size and ability to be surface mounted, this connector meets the demand for high-density mounting of components inside electronic products.

• Solder tabs

This connector also features reinforcing solder tabs to prevent lifting of the connector during mating and unmating.

Specifications

- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/20m Ω max.
After environmental testing/30m Ω max.
- Insulation resistance: 800M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable FFC: Conductor pitch/1.0mm
Conductor width/0.7mm
Mating part thickness/0.30 \pm 0.05mm

<Note>FFC to be actually used should be checked for applicability.

* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

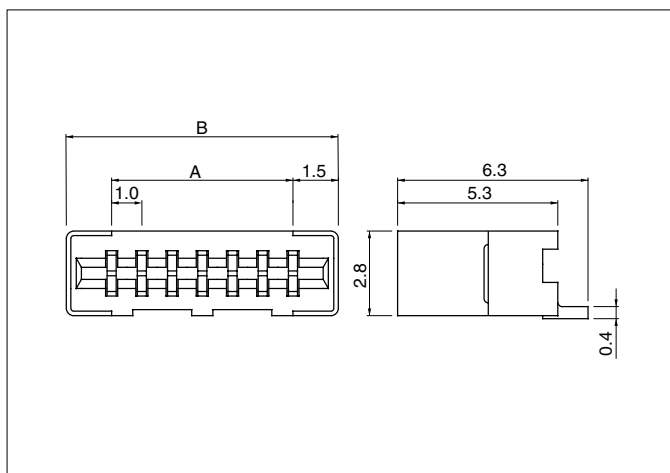
Standards

Recognized E60389

Certified LR20812

FMS CONNECTOR

Connector



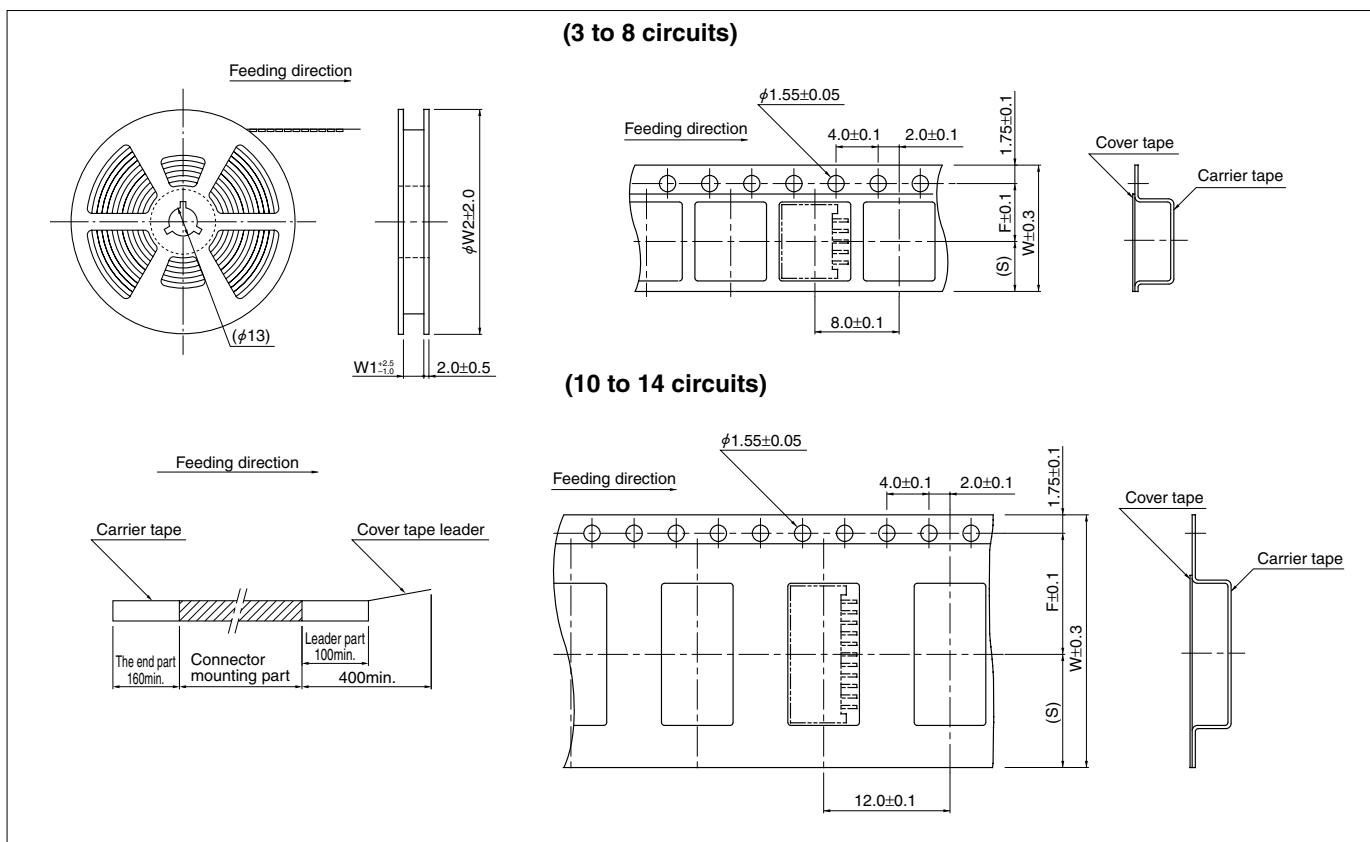
Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
3	03FMS-1.0SP-TF	2.0	5.0	2,500
4	04FMS-1.0SP-TF	3.0	6.0	2,500
5	05FMS-1.0SP-TF	4.0	7.0	2,500
6	06FMS-1.0SP-TF	5.0	8.0	2,500
8	08FMS-1.0SP-TF	7.0	10.0	2,500
10	10FMS-1.0SP-TF	9.0	12.0	2,000
11	11FMS-1.0SP-TF	10.0	13.0	2,000
12	12FMS-1.0SP-TF	11.0	14.0	2,000
14	14FMS-1.0SP-TF	13.0	16.0	2,000

Material and Finish

Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Housing: PPS, UL94V-0
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.
Note: The products listed above are supplied on embossed tape.

Taping specifications

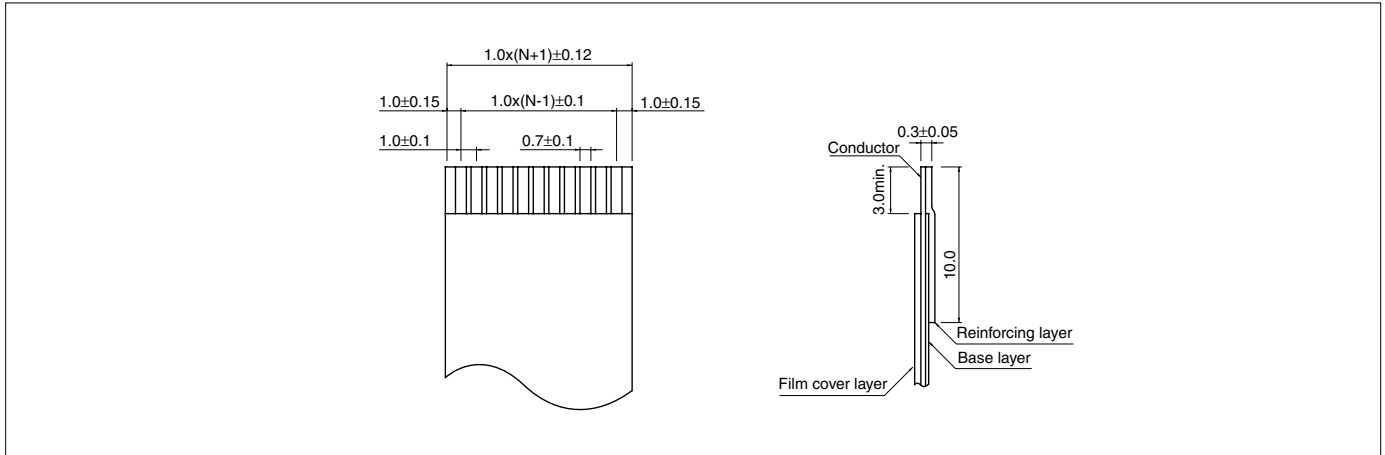


Circuits	Taping dimensions (mm)			Reel dimensions (mm)		Q'ty / reel
	F	S	W	W1	W2	
3 to 4	5.5	4.75	12.0	13.5	330	2,500
5 to 8	7.5	6.75	16.0	17.5	330	2,500
10 to 14	11.5	10.75	24.0	25.5	380	2,000

Note:

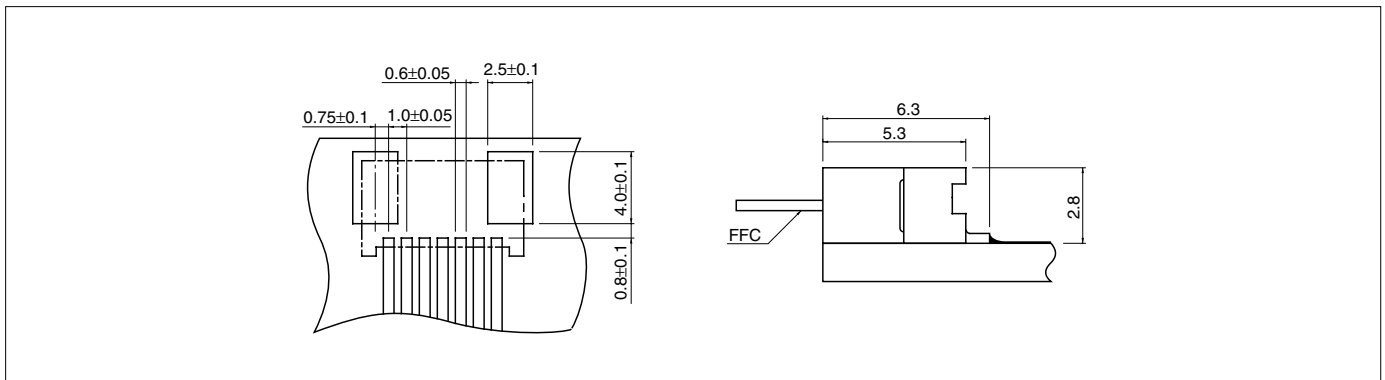
- Specifications conform to JIS C 0806. The tape width, connector recess dimensions, etc. are determined by the number of circuits and external shape of the connector to be loaded.
- Specifications are subject to change without prior notice.

Lead section dimensions of FFC



Note: N --- Number of circuits

PC board layout (viewed from component side) and Assembly layout



Note:

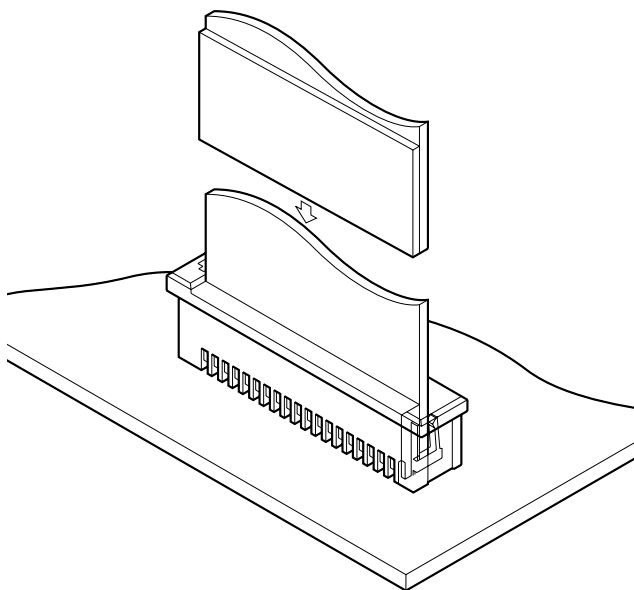
1. Tolerances are non-cumulative: $\pm 0.05 \text{ mm}$ for all centers.
2. The dimensions above should serve as a guideline.
Contact JST for details.



FMZ CONNECTOR

1.0mm pitch/Connectors for FFC

ZIF
TYPE



The FMZ series, a Zero Insertion Force (ZIF) connector series, was developed to increase wear resistance and extend the connector's mating life. It is a very compact connector with a thickness of only 4.2mm and a pitch of only 1.0mm and is thus useful for high density packaging. The contact has a reliable double-leaf construction which provides stable connection.

- Zero insertion force mechanism
- Temporary retention feature
- Compact
- Double-leaf contact

Specifications

- Current rating: 0.5A AC, DC
 - Voltage rating: 50V AC, DC
 - Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
 - Contact resistance: Initial value/20m Ω max.
After environmental testing/30m Ω max.
 - Insulation resistance: 800M Ω min.
 - Withstanding voltage: 500V AC/minute
 - Applicable FFC : Conductor pitch/1.0mm
Conductor width/0.7mm
Mating part thickness/
6 to 10, 12 to 16, 20 circuits:0.30 \pm 0.05mm
22, 26, 28, 30 circuits:0.30 $^{+0.05}_{-0}$ mm
 - Applicable PC board thickness: 0.8 to 1.6mm
- Note: FFC to be actually used should be checked for applicability.*
- * RoHS compliant products are published.
 - * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
 - * Contact JST for details.

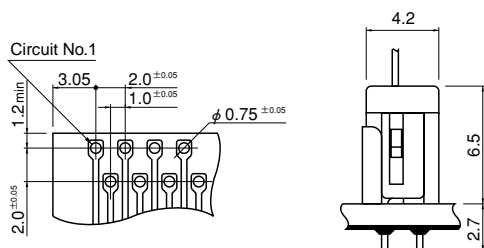
Standards

Recognized E60389

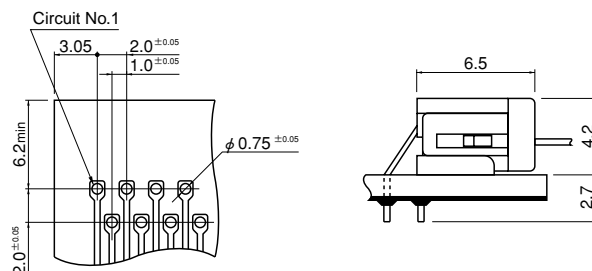
Certified LR20812

PC board layout (viewed from soldering side) and Assembly layout

Top entry type



Side entry type



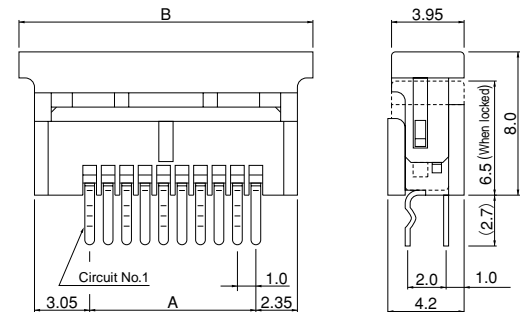
Note: 1. Tolerances are non-cumulative: ± 0.05 mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

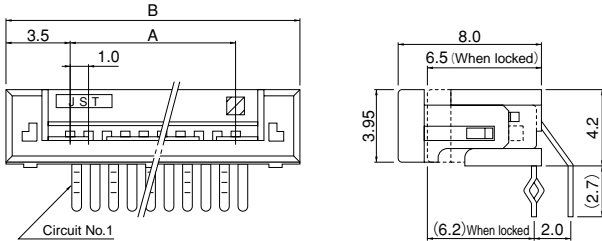
FMZ CONNECTOR

Connector

Top entry type



Side entry type



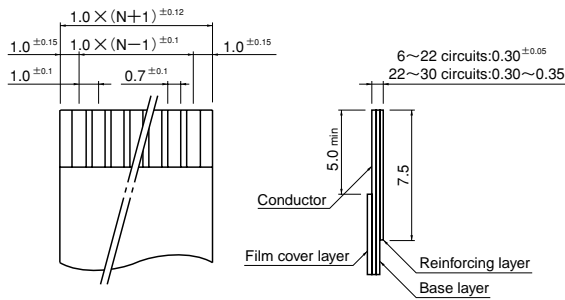
Circuits	Model No.		Dimensions (mm)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
6	06FMZ-BT	06FMZ-ST	5.0	12.0	1,440	800
8	08FMZ-BT	08FMZ-ST	7.0	14.0	1,440	800
9	09FMZ-BT	09FMZ-ST	8.0	15.0	960	600
10	10FMZ-BT	10FMZ-ST	9.0	16.0	960	600
12	12FMZ-BT	12FMZ-ST	11.0	18.0	960	600
13	13FMZ-BT	13FMZ-ST	12.0	19.0	960	600
14	14FMZ-BT	14FMZ-ST	13.0	20.0	960	400
15	15FMZ-BT	15FMZ-ST	14.0	21.0	780	400
16	16FMZ-BT	16FMZ-ST	15.0	22.0	780	400
17	17FMZ-BT	17FMZ-ST	16.0	23.0	780	400
20	20FMZ-BT	20FMZ-ST	19.0	26.0	720	400
22	22FMZ-BT	22FMZ-ST	21.0	28.0	720	400
24	—	24FMZ-ST	23.0	30.0	—	300
26	26FMZ-BT	26FMZ-ST	25.0	32.0	480	300
28	28FMZ-BT	28FMZ-ST	27.0	34.0	480	300
30	30FMZ-BT	30FMZ-ST	29.0	36.0	480	300

Material and Finish

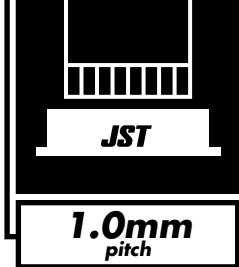
Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Housing: Glass-filled PBT, UL94V-0

RoHS compliance This product displays (LF)(SN) on a label.

Lead section dimensions of FFC

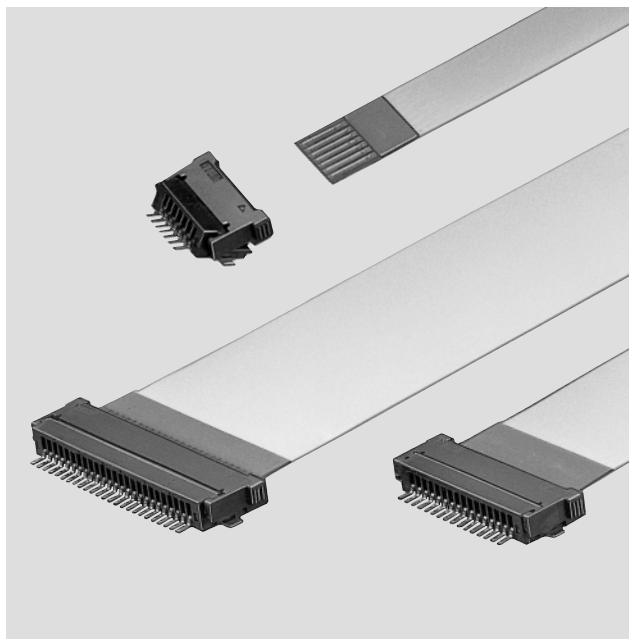


Note: N --- Number of circuits

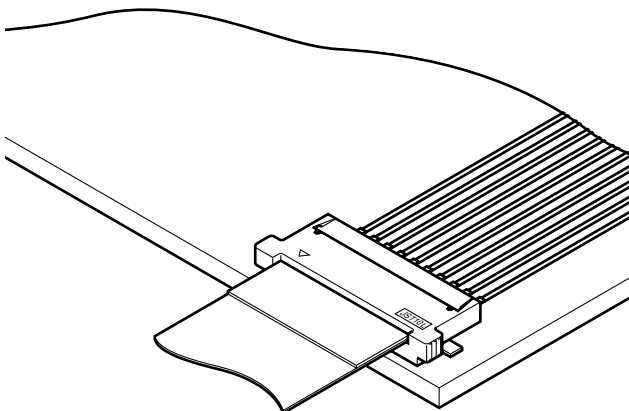


FPZ CONNECTOR

Connectors for FFC



The FPZ is a Zero Insertion Force (ZIF) connector designed for surface mounting of FFCs with a lead pitch of 1.0mm. With its mating slider serving as a guide, the FPZ connector ensures easy and reliable connection. It also features high heat resistance, which is suitable for surface mounting, and can be supplied in the form of emboss taping to facilitate automatic mounting.



Features

• Easy and reliable connection

Connection can be made simply by inserting the leads into the connector and pressing the slider. Once the leads are inserted, they are held by the 4-side guides located inside the slider so that they will not dislocate or come off.

• Emboss taping for automatic mounting

The FPZ is supplied in the form of emboss taping for automatic mounting.

• Heat resisting design suitable for surface mounting

This surface mounting type is designed to meet the needs of surface mountable devices inside electronic equipment. The housing is made of highly heat resisting resin to allow reflow soldering.

• High-density design, with a height of a mere 2.9mm

The circuit pitch at the soldered portion is 1.0mm and its mounting height is 2.9mm when locked. The FPZ is a compact and low-profile design.

Specifications

- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/20m Ω max.
After environmental testing/30m Ω max.
- Insulation resistance: 800M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable FFC : Conductor pitch/1.0mm
Conductor width/0.7mm
Mating part thickness/0.30±0.05mm

<Note>FFC to be actually used should be checked for applicability.

* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

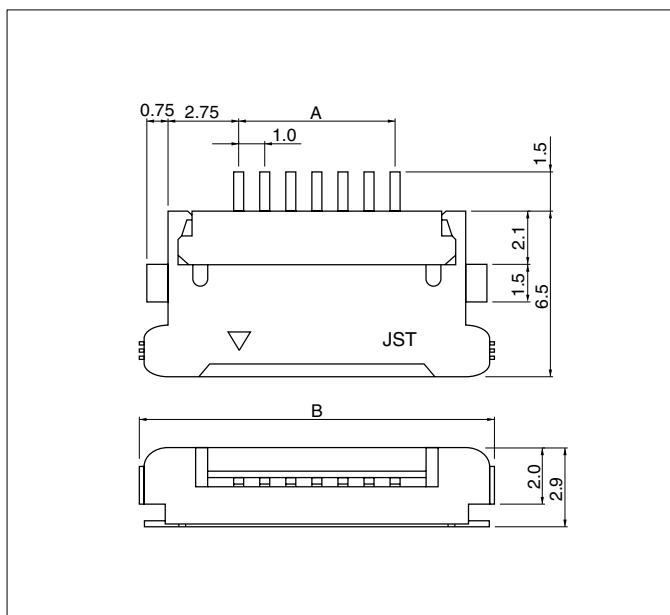
Standards

Recognized E60389

Certified LR20812

FPZ CONNECTOR

Connector



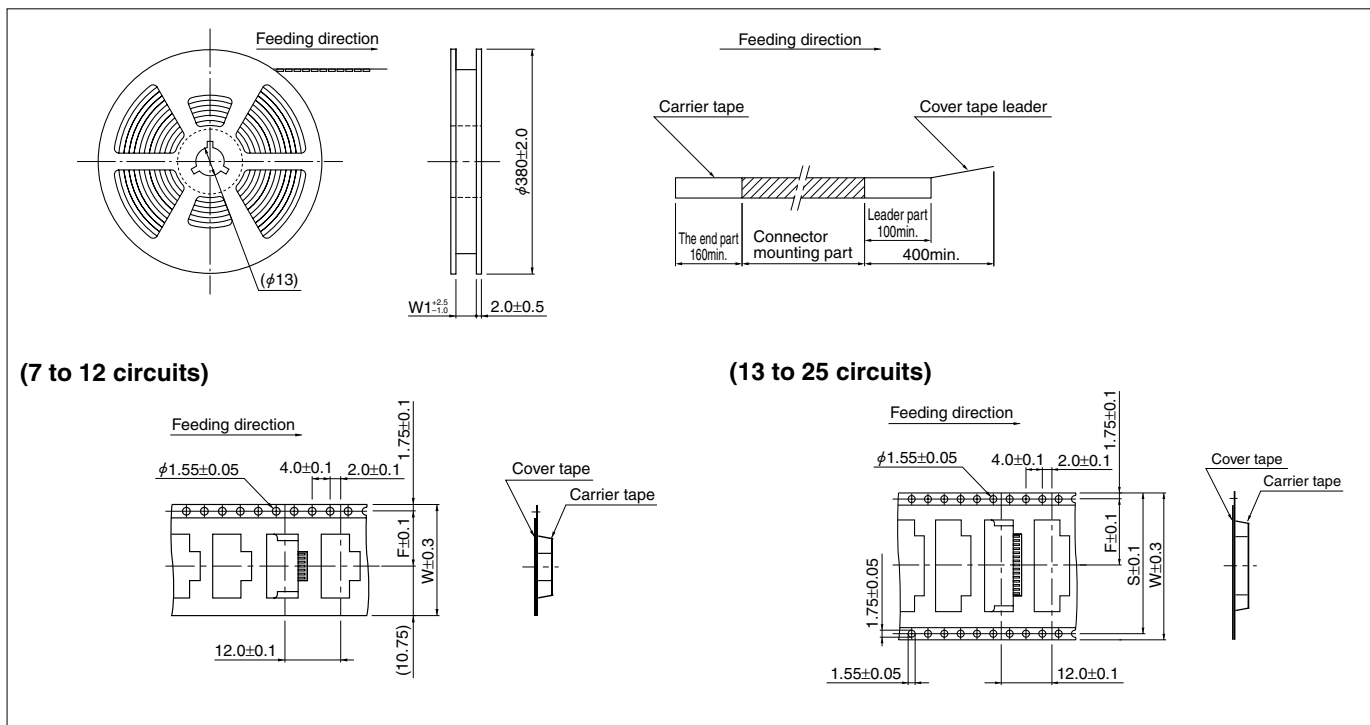
Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
7	07FPZ-SM-TF	6.0	13.0	2,000
8	08FPZ-SM-TF	7.0	14.0	2,000
10	10FPZ-SM-TF	9.0	16.0	2,000
11	11FPZ-SM-TF	10.0	17.0	2,000
12	12FPZ-SM-TF	11.0	18.0	2,000
13	13FPZ-SM-TF	12.0	19.0	2,000
14	14FPZ-SM-TF	13.0	20.0	2,000
15	15FPZ-SM-TF	14.0	21.0	2,000
16	16FPZ-SM-TF	15.0	22.0	2,000
18	18FPZ-SM-TF	17.0	24.0	2,000
20	20FPZ-SM-TF	19.0	26.0	2,000
24	24FPZ-SM-TF	23.0	30.0	2,000
25	25FPZ-SM-TF	24.0	31.0	2,000

Material and Finish

Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Reinforcing metal: Brass, tin-plated (reflow treatment)
Housing: PPS, UL94V-0

RoHS compliance This product displays (LF)(SN) on a label.
Note: The products listed above are supplied on embossed tape.

Taping specifications

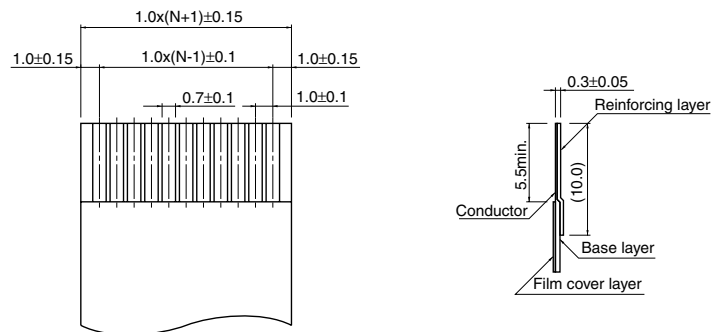


Circuits	Taping dimensions (mm)			Reel dimensions (mm)	Q'ty / reel
	F	S	W		
7 to 12	11.5	—	24.0	25.5	2,000
13 to 16	14.2	28.4	32.0	33.5	2,000
18 to 25	20.2	40.4	44.0	45.5	2,000

Note:

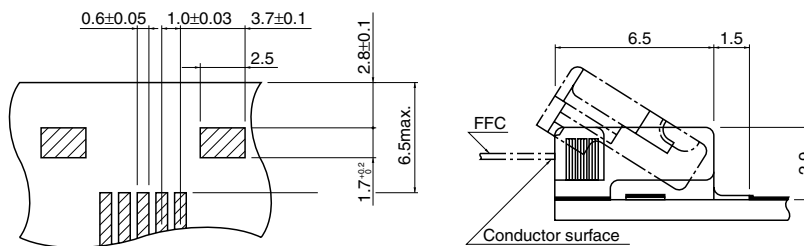
- Specifications conform to JIS C 0806. The tape width, connector recess dimensions, etc. are determined by the number of circuits and external shape of the connector to be loaded.
- Specifications are subject to change without prior notice.

Lead section dimensions of FFC



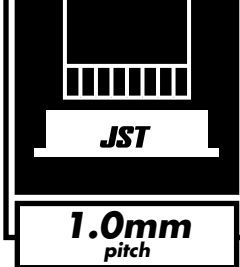
Note: N --- Number of circuits

PC board layout (viewed from component side) and Assembly layout



Note:

1. Tolerances are non-cumulative: $\pm 0.03 \text{ mm}$ for all centers.
2. The dimensions above should serve as a guideline.
Contact JST for details.

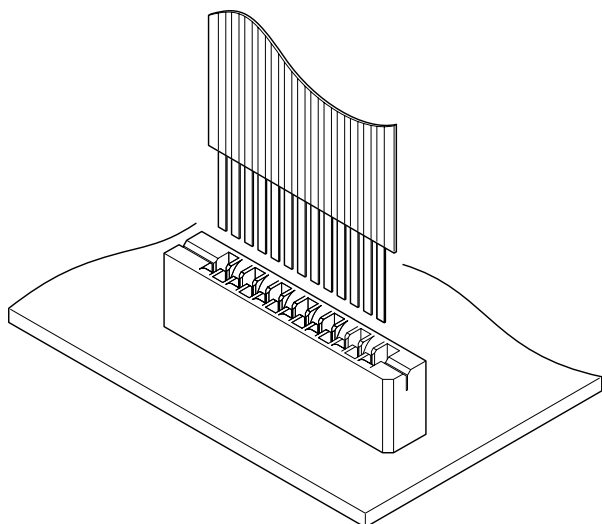


FUN CONNECTOR

Connectors for FFC



This board-in type connector provides direct soldering connection between the conductor part of the 1.0mm pitch FFC and the PC board.



Features

• ***Smaller pitch type***

Adoption of the FU connector (1.25mm pitch) structure leads to the realization of a smaller pitch board-in type connector (1.0mm pitch).

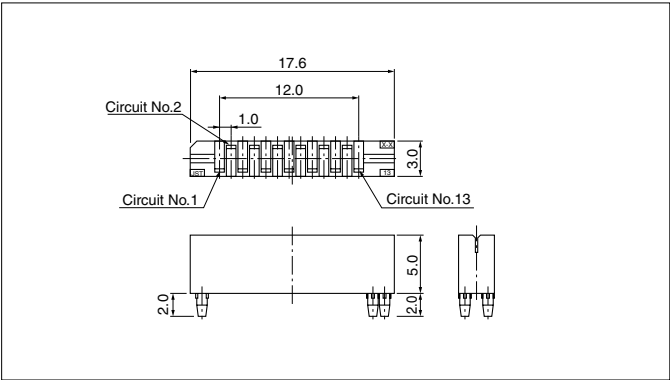
• ***Lower assembly costs***

Wiring the FFC directory to the PC board will reduce assembly costs.

Specifications

- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Applicable FFC: Conductor pitch/1.0mm
Conductor width/0.6mm
Mating part thickness/0.10–0.05mm
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

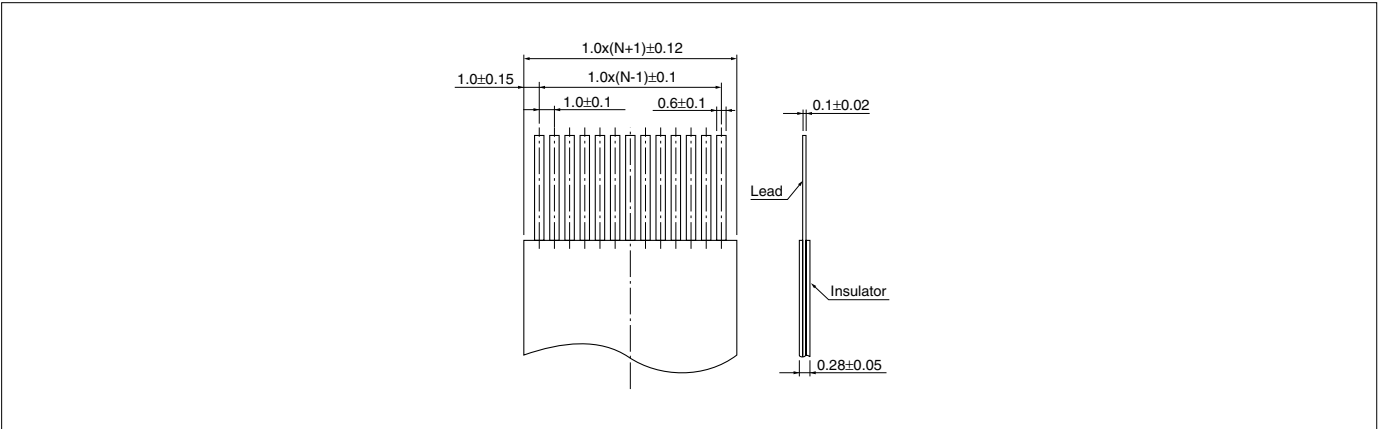
Connector



Circuits	Model No.	Q'ty / box
13	13FUN-B-SV	1,000
Material and Finish		
PA 66, UL94V-0, natural (white)		

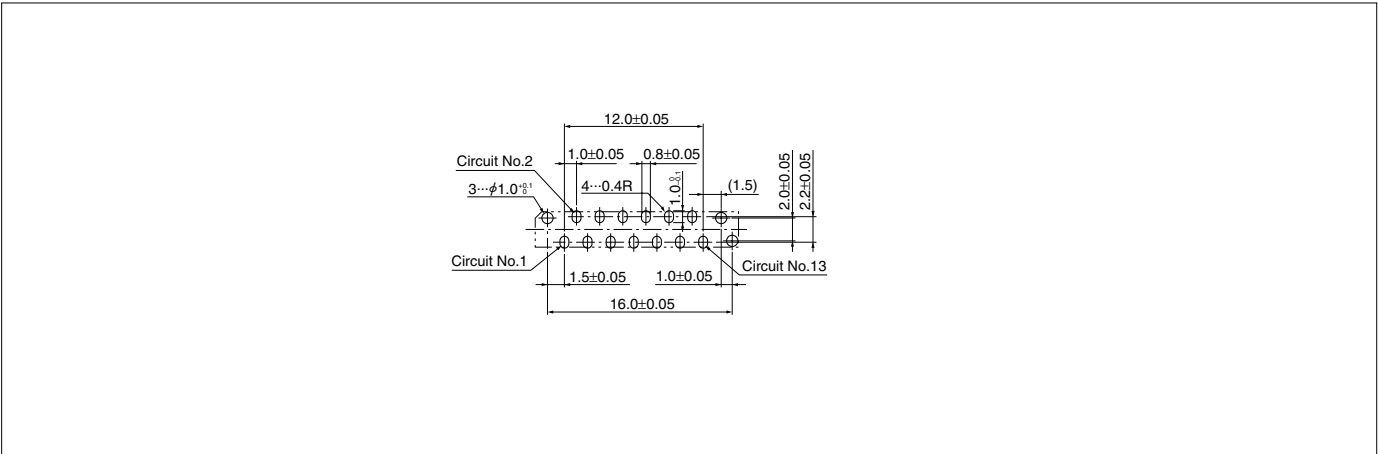
RoHS compliance

Lead section dimensions of FFC



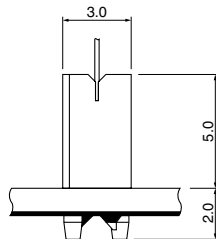
Note: N --- Number of circuits

PC board layout

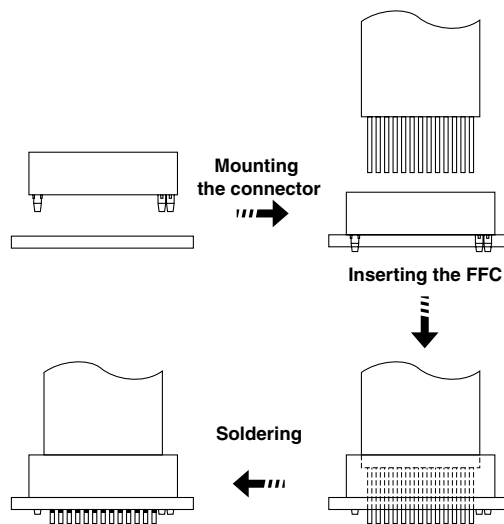


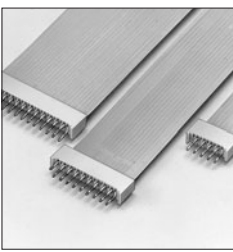
FUN CONNECTOR

Assembly layout



Assembly procedure

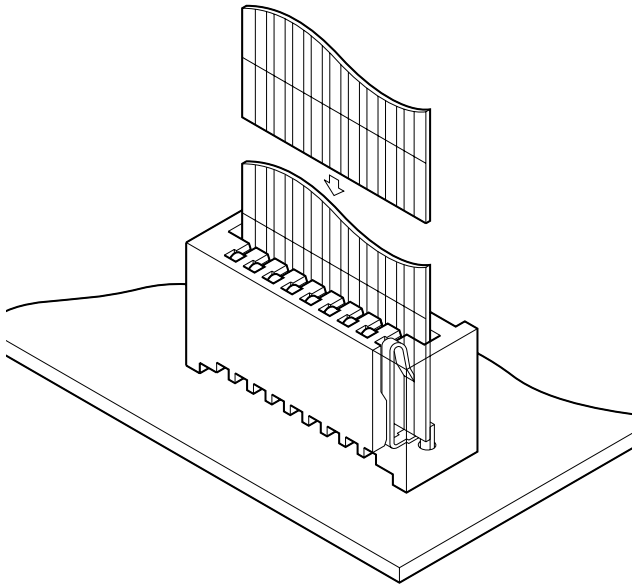




FE CONNECTOR

1.25mm pitch/Connectors for FFC

**NON-
ZIF
TYPE**



The FE connector ensures easy, secure connection of flexible flat cables (FFC). This compact connector is 4.8mm wide, 7.5mm high, and provides high contact pressure even though little force is required for insertion. The result is smooth insertion and reliable contact performance. The connector is useful in making personal computers, VCRs and car stereo systems smaller and lighter.

- Low insertion force and high contact pressure
- Snap-in connection
- Temporary board retention feature

Specifications

- Current rating: 1.0A AC, DC
- Voltage rating: 200V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/20m Ω max.
After environmental testing/30m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable FFC: Conductor pitch/1.25mm
Conductor width/0.8mm
Mating part thickness/0.3 \pm 0.05mm

Note: FFC to be actually used should be checked for applicability.

- Applicable PC board thickness: 1.2 to 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

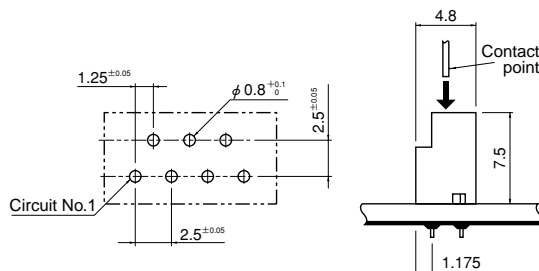
Standards

Recognized E60389

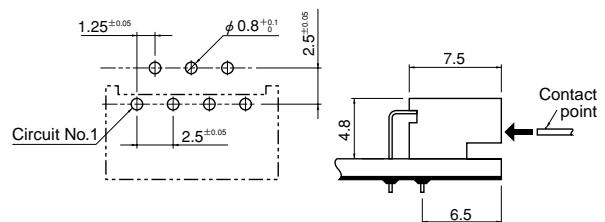
Certified LR20812

PC board layout (viewed from component side) and Assembly layout

Top entry type



Side entry type



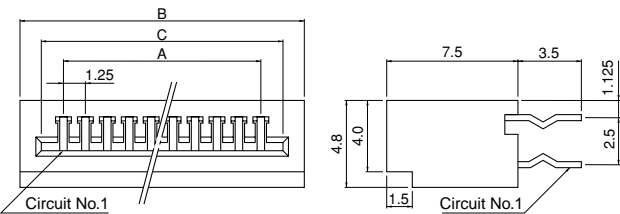
Note: 1. Tolerances are non-cumulative: ± 0.05 mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

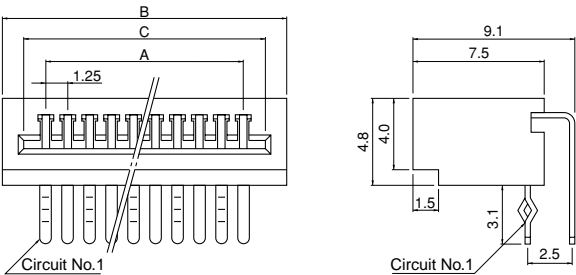
FE CONNECTOR

Connector

Top entry type



Side entry type



Circuits	Model No.		Dimensions (mm)			Q'ty / box	
	Top entry type	Side entry type	A	B	C	Top entry type	Side entry type
4	04FE-BT-VK-N	04FE-ST-VK-N	3.75	8.55	6.35	2,350	1,410
5	05FE-BT-VK-N	05FE-ST-VK-N	5.00	9.80	7.60	2,000	1,200
6	06FE-BT-VK-N	06FE-ST-VK-N	6.25	11.05	8.85	1,800	1,080
7	07FE-BT-VK-N	07FE-ST-VK-N	7.50	12.30	10.10	1,600	960
8	08FE-BT-VK-N	08FE-ST-VK-N	8.75	13.55	11.35	1,500	900
9	09FE-BT-VK-N	09FE-ST-VK-N	10.00	14.80	12.60	1,350	810
10	10FE-BT-VK-N	10FE-ST-VK-N	11.25	16.05	13.85	1,250	750
11	11FE-BT-VK-N	11FE-ST-VK-N	12.50	17.30	15.10	1,150	690
12	12FE-BT-VK-N	12FE-ST-VK-N	13.75	18.55	16.35	1,100	660
13	13FE-BT-VK-N	13FE-ST-VK-N	15.00	19.80	17.60	1,000	600
14	14FE-BT-VK-N	14FE-ST-VK-N	16.25	21.05	18.85	950	570
15	15FE-BT-VK-N	15FE-ST-VK-N	17.50	22.30	20.10	900	540
16	16FE-BT-VK-N	16FE-ST-VK-N	18.75	23.55	21.35	850	510
17	17FE-BT-VK-N	17FE-ST-VK-N	20.00	24.80	22.60	800	480
18	18FE-BT-VK-N	18FE-ST-VK-N	21.25	26.05	23.85	750	450
19	19FE-BT-VK-N	19FE-ST-VK-N	22.50	27.30	25.10	700	420
20	20FE-BT-VK-N	20FE-ST-VK-N	23.75	28.55	26.35	700	420
21	21FE-BT-VK-N	21FE-ST-VK-N	25.00	29.80	27.60	650	390
22	22FE-BT-VK-N	22FE-ST-VK-N	26.25	31.05	28.85	650	390
23	23FE-BT-VK-N	23FE-ST-VK-N	27.50	32.30	30.10	600	360
24	24FE-BT-VK-N	24FE-ST-VK-N	28.75	33.55	31.35	600	360
25	25FE-BT-VK-N	25FE-ST-VK-N	30.00	34.80	32.60	550	330
26	26FE-BT-VK-N	26FE-ST-VK-N	31.25	36.05	33.85	550	330
27	27FE-BT-VK-N	27FE-ST-VK-N	32.50	37.30	35.10	500	300
28	28FE-BT-VK-N	28FE-ST-VK-N	33.75	38.55	36.35	500	300
29	29FE-BT-VK-N	29FE-ST-VK-N	35.00	39.80	37.60	500	300
30	30FE-BT-VK-N	30FE-ST-VK-N	36.25	41.05	38.85	450	270
31	31FE-BT-VK-N	31FE-ST-VK-N	37.50	42.30	40.10	450	270
32	32FE-BT-VK-N	32FE-ST-VK-N	38.75	43.55	41.35	450	270
33	33FE-BT-VK-N	33FE-ST-VK-N	40.00	44.80	42.60	450	270
34	34FE-BT-VK-N	34FE-ST-VK-N	41.25	46.05	43.85	400	240
35	35FE-BT-VK-N	35FE-ST-VK-N	42.50	47.30	45.10	400	240
36	36FE-BT-VK-N	36FE-ST-VK-N	43.75	48.55	46.35	400	240
37	37FE-BT-VK-N	37FE-ST-VK-N	45.00	49.80	47.60	400	240
38	38FE-BT-VK-N	38FE-ST-VK-N	46.25	51.05	48.85	350	210
39	39FE-BT-VK-N	39FE-ST-VK-N	47.50	52.30	50.10	350	210
40	40FE-BT-VK-N	40FE-ST-VK-N	48.75	53.55	51.35	350	210

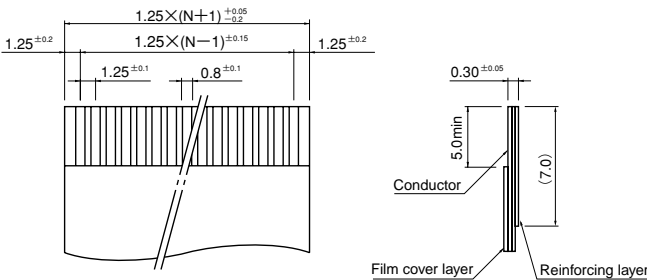
Material and Finish

Contact: Copper alloy, tin-plated (reflow treatment)
Housing: PBT, UL94V-0, white

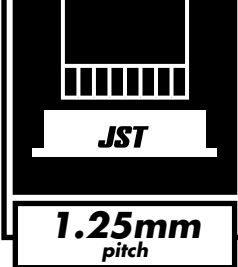
RoHS compliance

Note: 33 to 40 circuits products are not UL/CSA approved.

Lead section dimensions of FFC

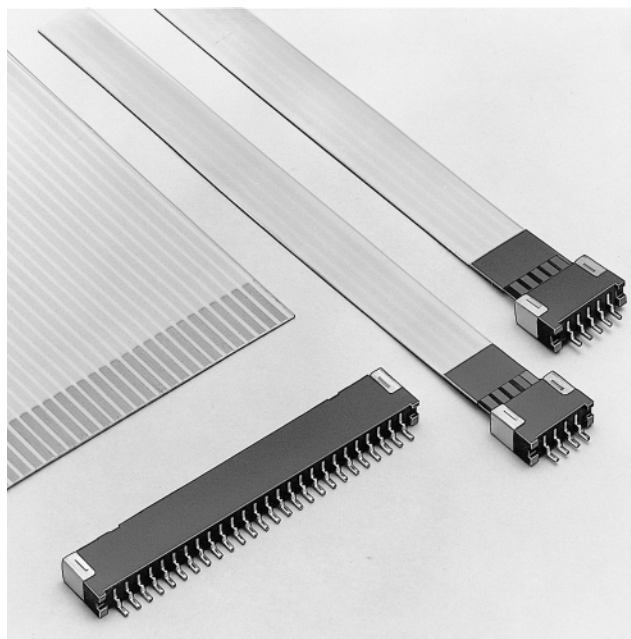


Note: N --- Number of circuits

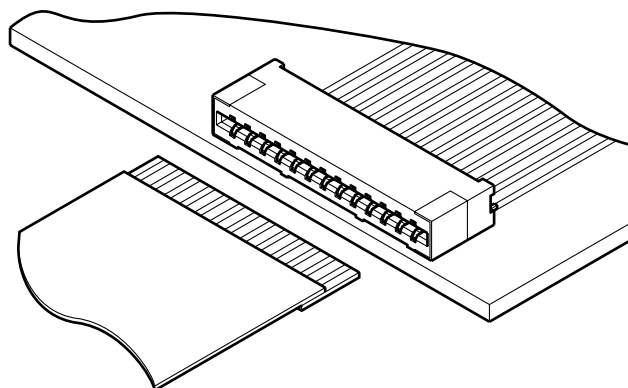


FFS CONNECTOR

Connectors for FFC



The FFS series connectors are designed for surface mounting (SMT) and to meet the demand for high-density packaging. They are miniature connectors with a height of only 2.8mm. Their high contact pressure eliminates fretting corrosion and ensures secure connections. Low insertion force make connection easy.



Features

• Surface mountable (SMT)

Because of its small pitch and its ability to be surface mounted, this connector meets the demand for high-density packaging.

• Double-leaf contact mating enhances reliability through redundancy

The contact is made of phosphor bronze that maintains its spring force in adverse environmental conditions. FFC leads can be inserted with little force, yet the contact pressure is high once they are inserted.

• Low profile design

This connector is very small with a mounting height of only 2.8mm.

• Simple snap-in action

The FFC is securely connected by simply inserting its leads into the connector.

• Embossed tape for automatic mounting

The FFS connector is supplied packaged in embossed tape for automatic mounting.

• Solder tabs

This connector also features reinforcing solder tabs to prevent lifting of the connector during mating and unmating.

Specifications

- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/20m Ω max.
After environmental testing/30m Ω max.
- Insulation resistance: 800M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable FFC : Conductor pitch/1.25mm
Conductor width/0.8mm
Mating part thickness/0.3 \pm 0.05mm

<Note>FFC to be actually used should be checked for applicability.

* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

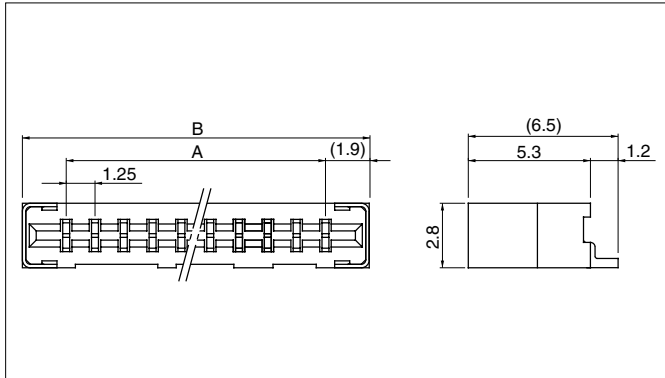
Standards

Recognized E60389

Certified LR20812

FFS CONNECTOR

Connector



Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
4	04FFS-SP-TF	3.75	7.55	1,000
5	05FFS-SP-TF	5.00	8.80	1,000
6	06FFS-SP-TF	6.25	10.05	1,000
8	08FFS-SP-TF	8.75	12.55	1,000
15	15FFS-SP-TF	17.50	21.30	1,000
21	21FFS-SP-TF	25.00	28.80	1,000
26	26FFS-SP-TF	31.25	35.05	2,000

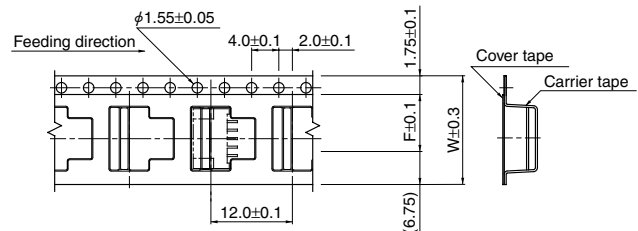
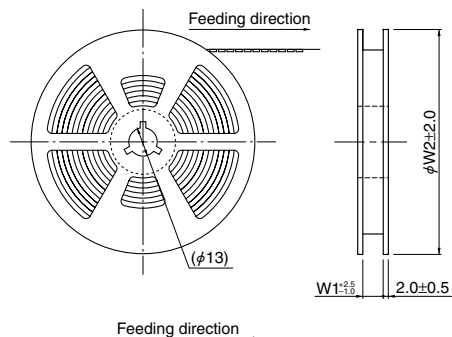
Material and Finish

Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Housing: PPS, UL94V-0
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

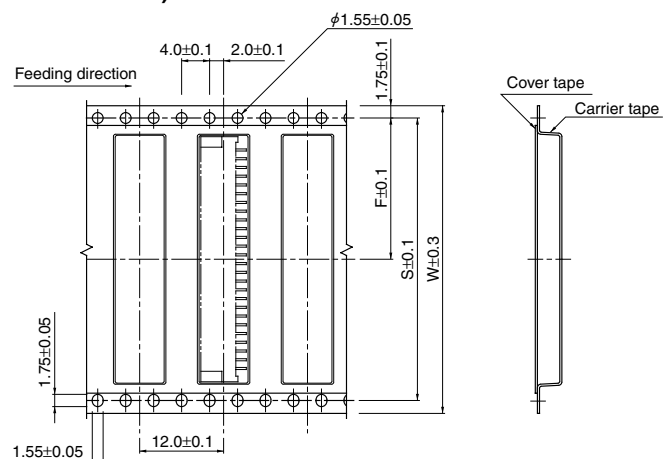
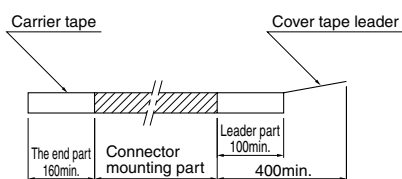
RoHS compliance This product displays (LF)(SN) on a label.
Note: The products listed above are supplied on embossed tape.

Taping specifications

(4 to 15 circuits)



(21 to 26 circuits)

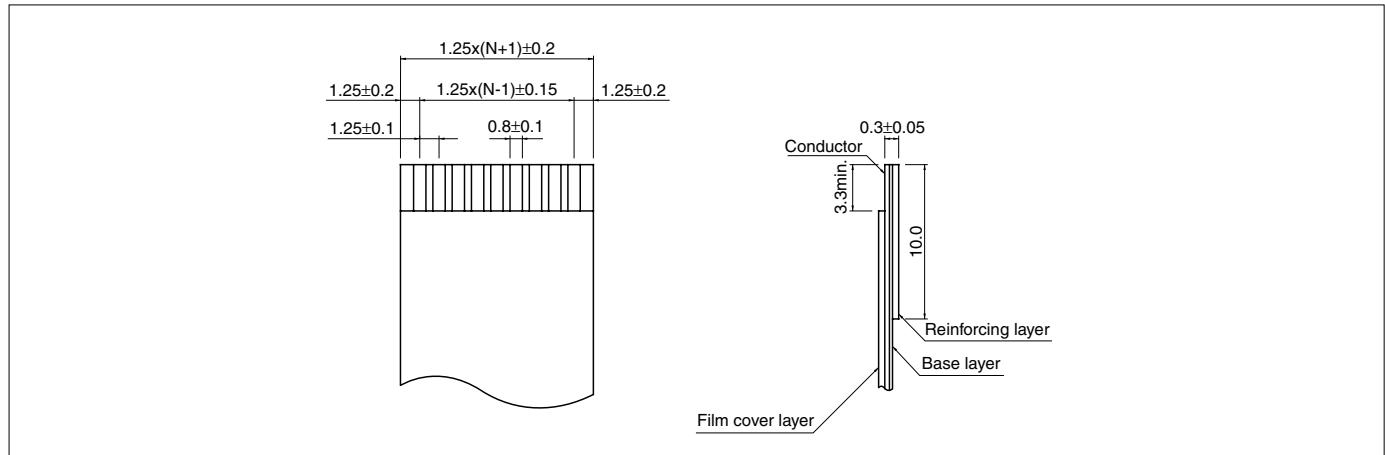


Circuits	Taping dimensions (mm)			Reel dimensions (mm)		Q'ty / reel
	F	S	W	W1	W2	
4 to 6	7.5		16.0	17.5	330	1,000
8	11.5		24.0	25.5	330	1,000
15	14.2	28.4	32.0	33.5	330	1,000
21	20.2	40.4	44.0	45.5	330	1,000
26	20.2	40.4	44.0	45.5	380	2,000

Note:
Specifications conform to JIS C 0806. The tape width, connector recess dimensions, etc. are determined by the number of circuits and external shape of the connector to be loaded.

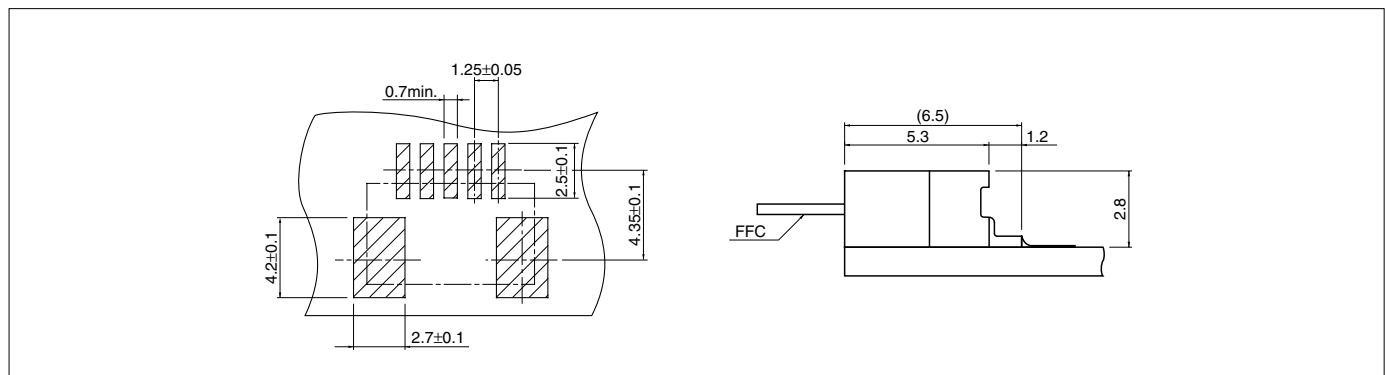
FFS CONNECTOR

Lead section dimensions of FFC



Note: N --- Number of circuits

PC board layout (viewed from component side) and Assembly layout



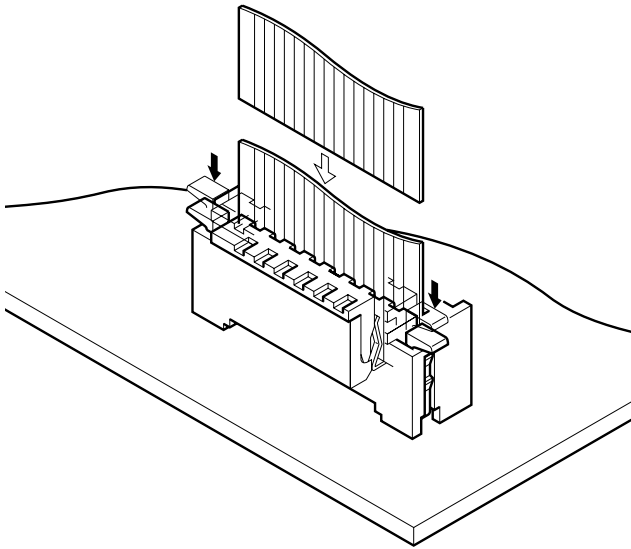
- Note:
1. Tolerances are non-cumulative: $\pm 0.05 \text{ mm}$ for all centers.
 2. The dimensions above should serve as a guideline.
Contact JST for details.



FDZ CONNECTOR

ZIF
TYPE

2.54mm pitch/Connectors for FPC and membrane switch leads



The FDZ connector, a Zero Insertion Force (ZIF) connector, was developed to connect FPC and membrane switch leads. This combination of features allows greater freedom in internal wiring designs. No force is required to insert the leads. Once inserted, the leads are securely held and locked by moving the slide. The contact is double-sided to ensure greater reliability.

- Double-sided contact
- Zero insertion force and locking mechanism
- Temporary board retention feature
- Boss for polarity identification
- Flux is not a problem

Specifications

- Current rating: Tin-plated copper foil lead/1.0A AC, DC
Silver paste carbon-printed lead/50mA AC, DC
 - Voltage rating: 250V AC, DC
 - Temperature range: -40°C to +85°C
(including temperature rise in applying electrical current)
 - Contact resistance: <Tin-plated copper foil lead>
Initial value/30m Ω max.
After environmental testing/50m Ω max.
<Silver paste carbon-printed lead>
Initial value/10 Ω max.
After environmental testing/15 Ω max.
 - Insulation resistance: 1,000M Ω min.
 - Withstanding voltage: 1,200V AC/minute
 - Applicable FPC and membrane switch lead:
Conductor pitch/2.54mm
Conductor width/1.3mm
Mating part thickness/125 micron
 - Applicable PC board thickness: 1.6mm
- Note: FPC to be actually used should be checked for applicability.*
- * RoHS compliant products are published.
 - * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
 - * Contact JST for details.

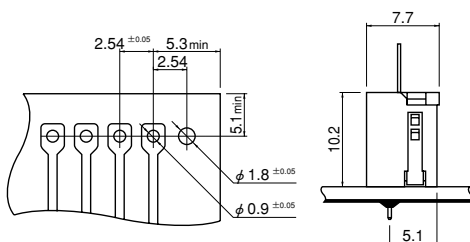
Standards

Ⓜ Recognized E60389

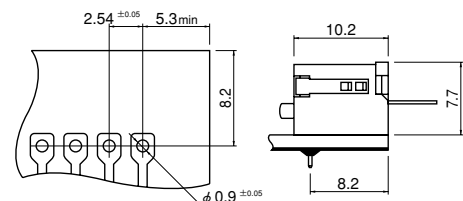
Ⓢ Certified LR20812

PC board layout (viewed from soldering side) and Assembly layout

Top entry type



Side entry type



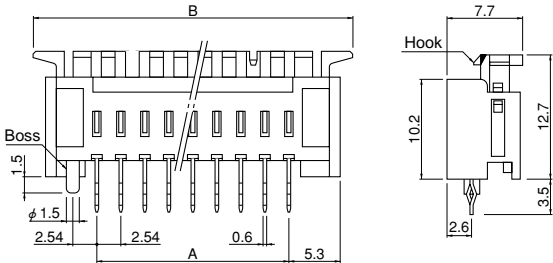
Note: 1. Tolerances are non-cumulative: ± 0.05 mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

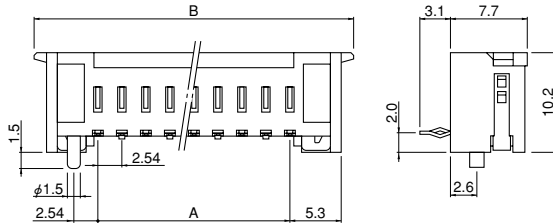
FDZ CONNECTOR

Connector

Top entry type
(Before slide lock)



Side entry type
(After slide lock)



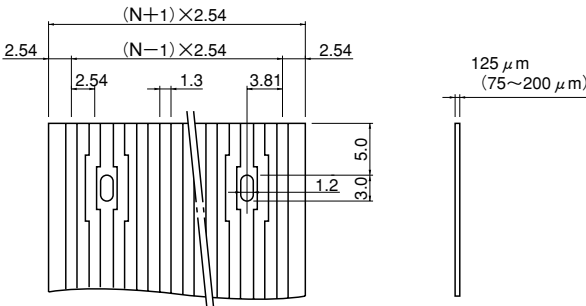
Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Top entry type	Side entry type	A	B	
5	05FDZ-BT(S)	05FDZ-ST(S)	10.16	23.56	100
6	06FDZ-BT(S)	06FDZ-ST(S)	12.70	26.10	100
8	08FDZ-BT(S)	08FDZ-ST(S)	17.78	31.18	100
9	09FDZ-BT(S)	09FDZ-ST(S)	20.32	33.72	100
10	10FDZ-BT(S)	10FDZ-ST(S)	22.86	36.26	100
11	11FDZ-BT(S)	11FDZ-ST(S)	25.40	38.80	50
12	12FDZ-BT(S)	12FDZ-ST(S)	27.94	41.34	50
13	13FDZ-BT(S)	13FDZ-ST(S)	30.48	43.88	50
17	17FDZ-BT(S)	17FDZ-ST(S)	40.64	54.04	50
19	19FDZ-BT(S)	—	45.72	59.12	50

Material and Finish

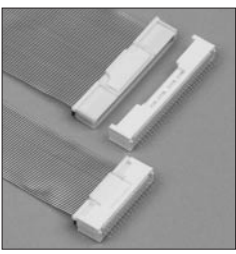
Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Housing: Glass-filled PBT, UL94V-0

RoHS compliance This product displays (LF)(SN) on a label.
Note: 19FDZ-BT(S) is not UL/CSA approved.

Lead section dimensions of FPC

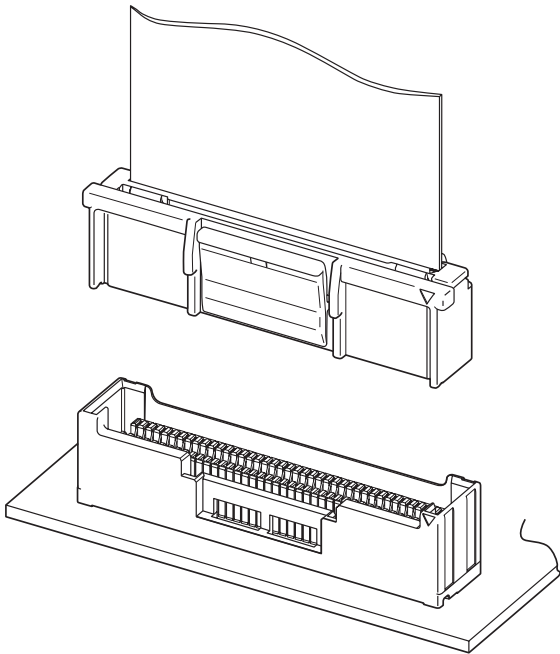


Note: N --- Number of circuits



FCT CONNECTOR

1.0mm pitch/Disconnectable connectors for flat cables



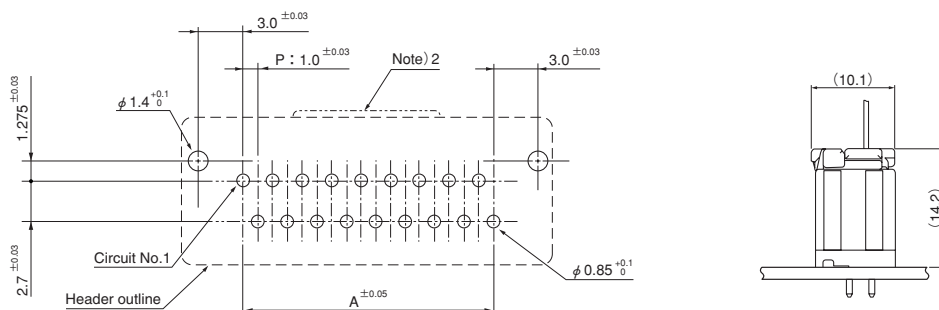
This connector realizes high cost performance, to be designed with the new connector concept that the conductors of flat cable that was fixed up in the plug housing are directly touched to the base contacts.

- Countermeasure to short circuit by whisker
- High reliability design by both side contact
- Low insertion force
- With secure locking device

Specifications

- Current rating: 1.0A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Recommended applicable FFC: Conductor pitch/1.0mm
Conductor width/0.6mm
Conductor thickness/0.1mm
Thickness with insulator/0.4mm
- PC board mounting direction: Top entry
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

PC board layout (viewed from component side) and Assembly layout

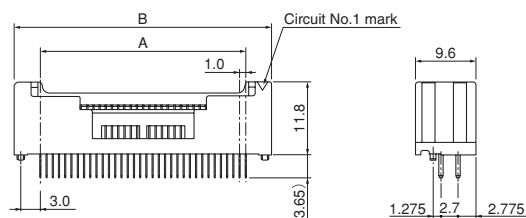


Note: 1. Dimension A in the above figure is the same as the dimensions A of the shrouded header.
 2. Protrusion (narrow line part): The outline of the lock protrusion (operation part) of plug for mating connector is shown.
 3. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
 4. Hole dimensions differ according to the kind of PC board and piercing method.
 The dimensions above should serve as a guideline. Contact JST for details.

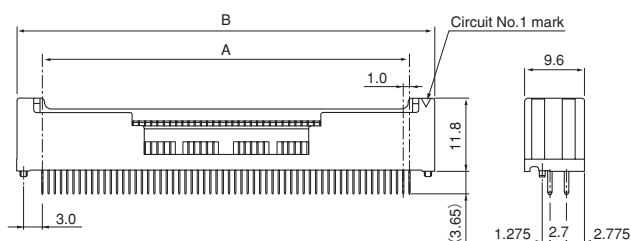
FCT CONNECTOR

Shrouded header

<26, 34, 40 circuits>



<60 circuits>



Circuits	Model No.		Dimensions (mm)		Q'ty / box
	With boss	Without boss	A	B	
26	26FCT-TDSS-B	26FCT-TDSS	25.0	33.0	1,008
34	34FCT-TDSS-B	34FCT-TDSS	33.0	41.0	784
40	40FCT-TDSS-B	40FCT-TDSS	39.0	47.0	672
60	60FCT-TDSS-B	60FCT-TDSS	59.0	67.0	448

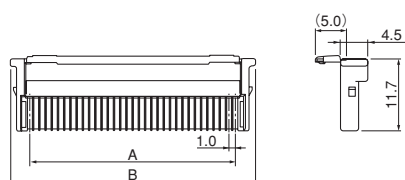
Material and Finish

Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PBT, UL94V-0, natural (white)

RoHS compliance This product displays (LF)(SN) on a label.

Cable holder

<26, 34, 40, 60 circuits>



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
26	FCTH-26V-K	25.0	31.3	5,000
34	FCTH-34V-K	33.0	39.3	4,000
40	FCTH-40V-K	39.0	45.3	3,000
60	FCTH-60V-K	59.0	65.3	2,000

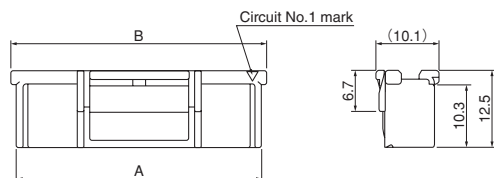
Material

PA 66, UL94V-0, black

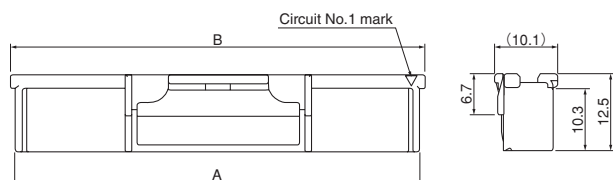
RoHS compliance

Plug for mating connector

<26, 34, 40 circuits>



<60 circuits>



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
26	FCTP-26V-S	31.3	33.0	2,000
34	FCTP-34V-S	39.3	41.0	2,000
40	FCTP-40V-S	45.3	47.0	2,000
60	FCTP-60V-S	65.3	67.0	1,200

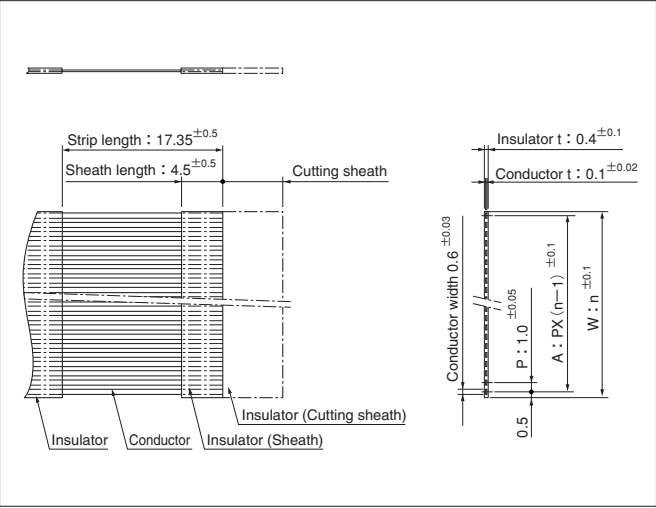
Material

PA 66, UL94V-0, natural (white)

RoHS compliance

FCT CONNECTOR

Dimensions of recommended applicable flat cable

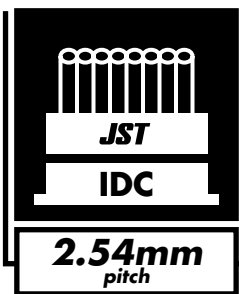


Circuits(n)	A	W
26	25.0	26.0
34	33.0	34.0
40	39.0	40.0
60	59.0	60.0

Note: Confirm the applicability of the connector with the flat cable used, before use.
Contact JST for applicable flat cable.

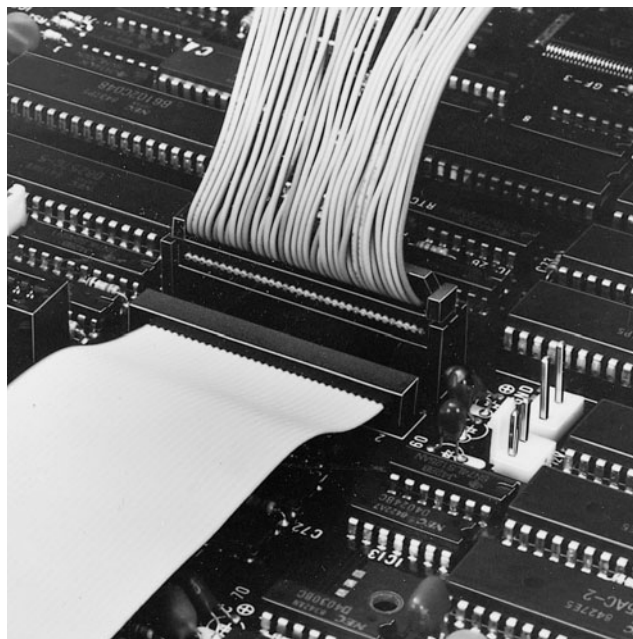
Harness assembly jig

Jig name		Model No.
Jig for flat cable	Cable bending jig	H-VD-FCT60
	Conductor forced-bending jig	
Plug inserting jig		H-IT-FCT60

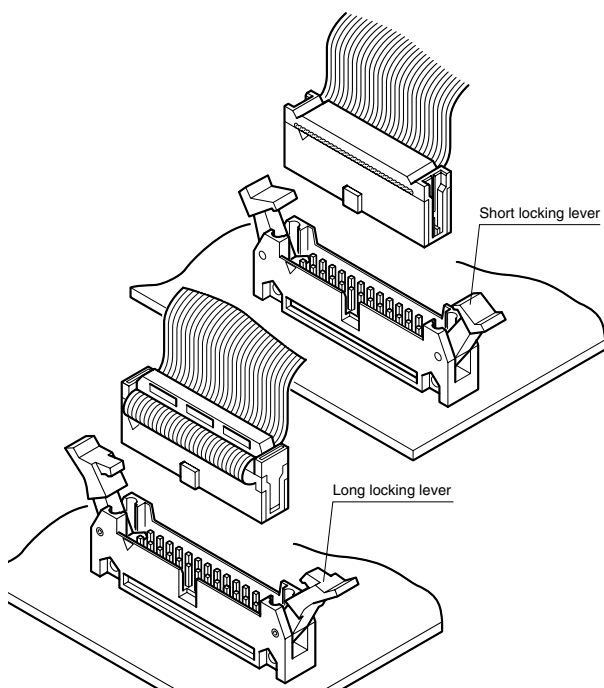


RA CONNECTOR<IDC>

Disconnectable Insulation displacement connectors for 1.27mm pitch ribbon cables



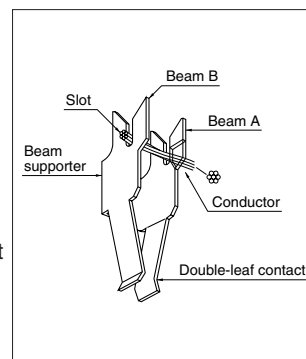
To keep pace with the rapid developments in electronics, internal and external connection systems are naturally increasing in density. At the same time, labor requirements and overall costs must be minimized. RA connectors meet all of these requirements, while providing increased reliability. These connectors, whose materials, shapes, dimensions, and surface treatments have been carefully selected, are based on the latest technological information that has been accumulated and improved over years of experience in crimping connection technology.



Features

• Twin U-slot ID section

The twin U-slot is the most important IDC element in JST's RA connectors. As shown in the figure, wire conductors are connected between the slots of U-shaped parallel beams, and the distance between each adjacent pair of beams is designed to be one third of the pitch of wire strands.



• Two-die processing and selective gold plating

Two precision dies are used to blank and form the contacts. After the first die blanks the contacts, they are gold plated at crucial points. Then, the contacts are formed by the second die. This eliminates unnecessary gold-plating and overall costs are minimized. This innovation is another example of our industry-leading technology.

• Selective gold-plated posts

Header posts are also selectively gold-plated. While square wire material is used for production of conventional posts in loose pieces, continuous flat strip is used for production of our post in chain form. This allows selective gold-plating and provides cost reduction.

• Cost-efficient

JST's unique technology allows it to produce connectors that are extremely reliable and cost-efficient.

• Interchangeable cables and connectors

RA connectors fit commercially available 1.27mm pitch flat ribbon cables. A variety of ribbon cables are offered according to the purpose. Moreover, the RA series receptacles and header are interchangeable with the similar type of connectors commercially available. Contact JST before procuring cables and other manufacturer's mating connectors.

* Compliant with RoHS.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

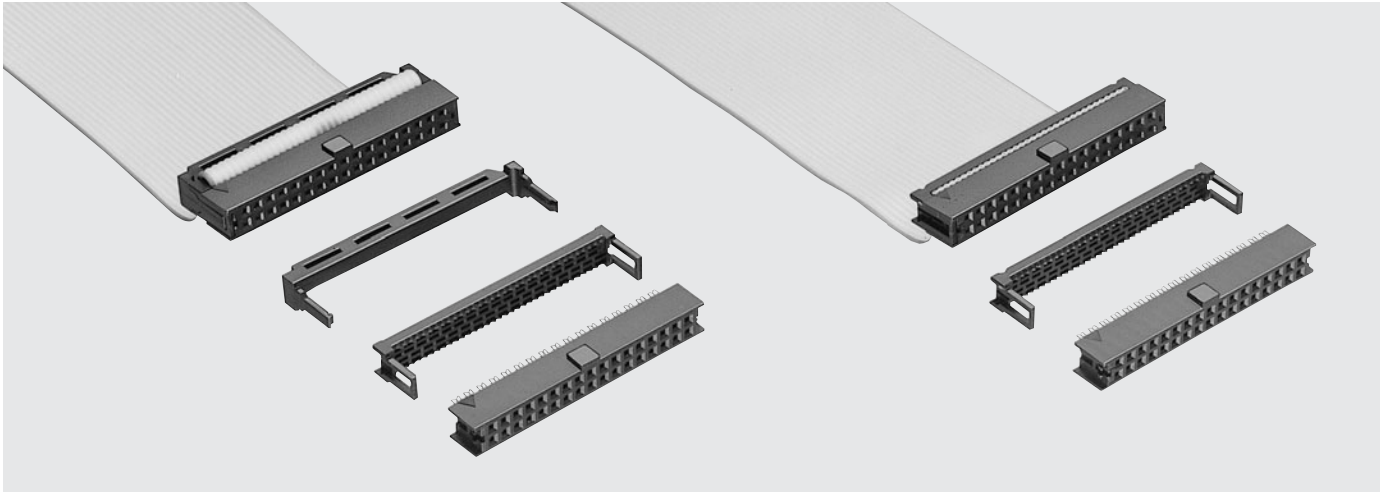
* Contact JST for details.

Standards

Recognized E60389

Certified LR20812

Receptacle



Specifications

Characteristics

Current rating	1.0A AC, DC
Voltage rating	300V AC, DC
Temperature range	(including temperature rise in applying electrical current) -55°C to +125°C (gold-plated) -55°C to +105°C (tin-plated)
Contact resistance	Initial value/10mΩ max. (gold-plated) 40mΩ max. (tin-plated) After environmental testing/ 15mΩ max. (gold-plated) 50mΩ max. (tin-plated)
Insulation resistance	5,000MΩ min.
Withstanding voltage	500V AC/5 seconds
Applicable wire	AWG #28, 1.27mm pitch ribbon cable

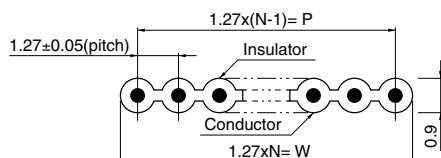
Materials

Contact	Phosphor bronze • Nickel-undercoated, selective gold-plated • Copper-undercoated, tin-plated (reflow treatment)
Receptacle housing	Glass-filled PBT, UL94V-0, black
Cover housing	Glass-filled PBT, UL94V-0, black
Strain relief	Glass-filled PBT, UL94V-0, black

*Contact JST for details.

Applicable cables

Ribbon cables conforming to the following specifications can be used with RA connector receptacles. Contact JST for details.



Note: N --- Number of circuits

No. of conductors (n)	Dimensional tolerance (mm)	
	P	W
10 to 14	±0.18	±0.3
16 to 26	±0.28	±0.3
34 to 60	±0.38	±0.3

Conductor	AWG #28 stranded wire Construction: 7/0.127mm dia. Material: Tin-plated annealed copper wire
	AWG #28 solid wire Construction: 0.32mm dia. Material: Tin-plated annealed copper wire
Insulator	Soft vinyl chloride

RA CONNECTOR

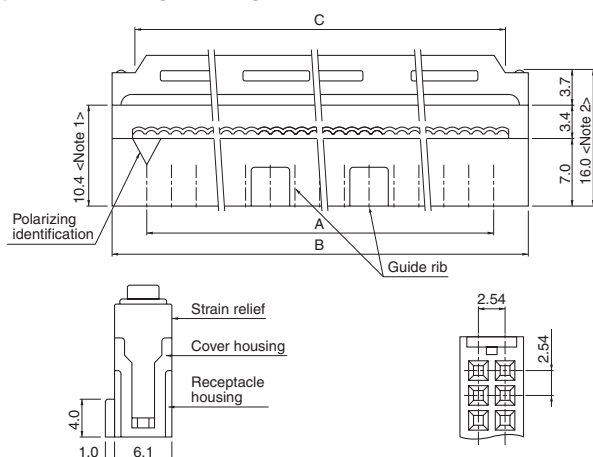
Model number identification

• Series name	RA	S	50	1	T	1	2	00
• Product name: Receptacle								
• Number of circuits: 10, 14, 16, 20, 26, 34, 40, 50, 60								
• Number of guide ribs: 10 to 40 circuits ... 1 50 circuits ... 0, 1, 2 60 circuits ... 1, 2								
• Connection method: T ... Through type S ... Short lock through type								
• With or without strain relief 0 ... Without 1 ... With								
• Contact material: 2 ... Phosphor bronze for spring								
• Surface finish 00... Gold-plated (flash) 02... 0.2micron gold-plated 03... 0.4micron gold-plated 04... 0.76micron gold-plated 90... Tin-plated (reflow treatment)								

Note:

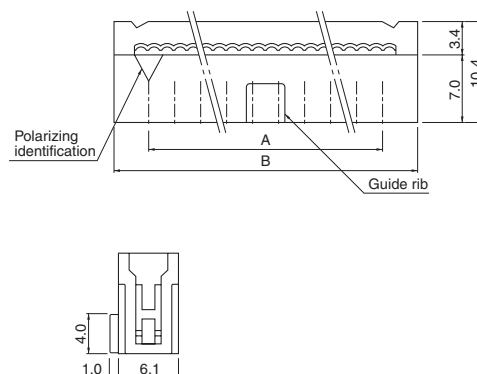
The standard gold-plated type is identified by the suffix number [-1200], but this suffix number is usually omitted. The gold-plated type identified by [-0200] is indicated by [-0] for short. Other types must be identified by the full code number. Special types do not conform to the above coding system.

Receptacle for long locking lever header



<Note 1>: Height without strain relief <Note 2>: Height with strain relief

Receptacle for short locking lever header



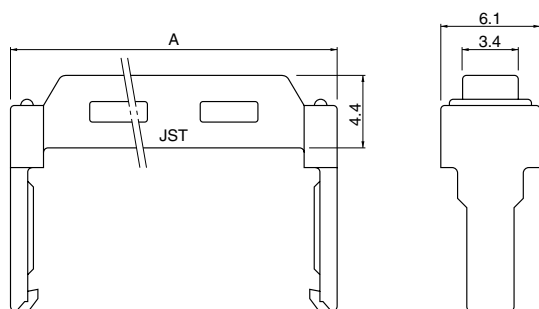
Cir- cuits	Type of cover housing	No. of guide ribs	Model No.			Dimensions (mm)			Q'ty / box
			Gold-plated receptacles		Tin-plated receptacles (With strain relief)	A	B	C	
			With strain relief	Without strain relief					
10	Long type	1	RA-S101T	RA-S101T-0	RA-S101T-1290	10.16	17.30	13.00	300
14		1	RA-S141T	RA-S141T-0	RA-S141T-1290	15.24	22.38	18.08	200
16		1	RA-S161T	RA-S161T-0	RA-S161T-1290	17.78	24.92	20.62	200
20		1	RA-S201T	RA-S201T-0	RA-S201T-1290	22.86	30.00	25.70	150
26		1	RA-S261T	RA-S261T-0	RA-S261T-1290	30.48	37.62	33.32	150
34	Short type	1	—	RA-S341S-0	—	40.64	47.78	—	100
	Long type		RA-S341T	RA-S341T-0	RA-S341T-1290			43.48	
40	Long type	1	RA-S401T	RA-S401T-0	RA-S401T-1290	48.26	55.40	51.10	100
50	Short type	1	—	RA-S502S-0	—	60.96	68.10	—	75
	Long type	0	RA-S500T	RA-S500T-0	RA-S500T-1290			63.80	75
		1	RA-S501T	RA-S501T-0	RA-S501T-1290				
		2	RA-S502T	RA-S502T-0	RA-S502T-1290				
60	Short type	1	—	RA-S602S-0	—	73.66	80.80	—	75
	Long type		RA-S601T	RA-S601T-0	RA-S601T-1290			76.50	
			2	RA-S602T	RA-S602T-0				

RoHS compliance Tin-plated products display (LF)(SN) on a label.

Strain relief and cover housing

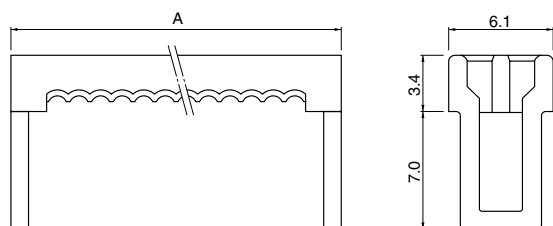
Indicate the Model No. shown below when ordering strain relief and cover separately.

Strain relief



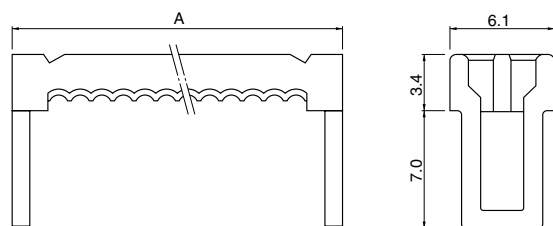
Cover housing

For long locking lever header



Cover housing

For short locking lever header



Cir- cuits	Model No.			Dimensions (mm)
	Strain relief	Cover housing		
		Long type	Short type	
10	RA-SR10T-1	RA-CH10T	—	17.30
14	RA-SR14T-1	RA-CH14T	—	22.38
16	RA-SR16T-1	RA-CH16T	—	24.92
20	RA-SR20T-3	RA-CH20T	—	30.00
26	RA-SR26T-3	RA-CH26T	—	37.62
34	RA-SR34T-3	RA-CH34T	RA-CH34S	47.78
40	RA-SR40T-3	RA-CH40T	—	55.40
50	RA-SR50T-3	RA-CH50T	RA-CH50S	68.10
60	RA-SR60T-1	RA-CH60T	RA-CH60S	80.80

RoHS compliance

Note: 1. Color: Black

2. When ordering Strain relief or Cover housing only, refer to the above Model Nos.

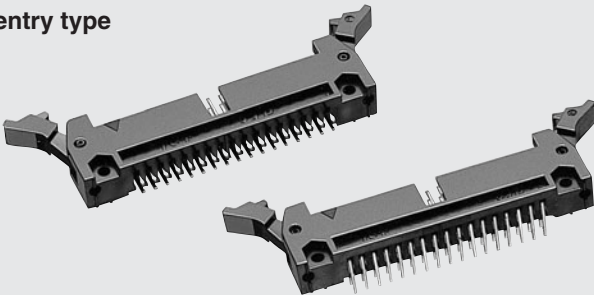
RA CONNECTOR

Shrouded header

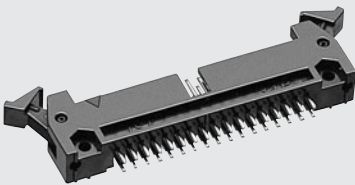
With long locking lever

With short locking lever

Top entry type



Side entry type



Specifications

Characteristics

Current rating	1.0A AC, DC
Voltage rating	300V AC, DC
Temperature range	(including temperature rise in applying electrical current) -55°C to +125°C (gold-plated) -55°C to +105°C (tin-plated)
Insulation resistance	5,000M Ω min.
Withstanding voltage	500V AC/5 seconds
Applicable PC board thickness	1.6mm

Note: Contact JST for details.

Materials and Finish

Post	Brass <ul style="list-style-type: none">Nickel-undercoatedMating part; gold-platedSolder tail; tin-plated (reflow treatment)Copper-undercoated, tin-plated (reflow treatment)
Housing	Glass-filled PBT, UL94V-0, black

Model number identification

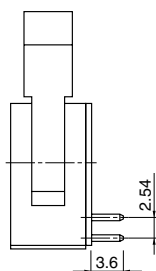
[illegible]

Note:

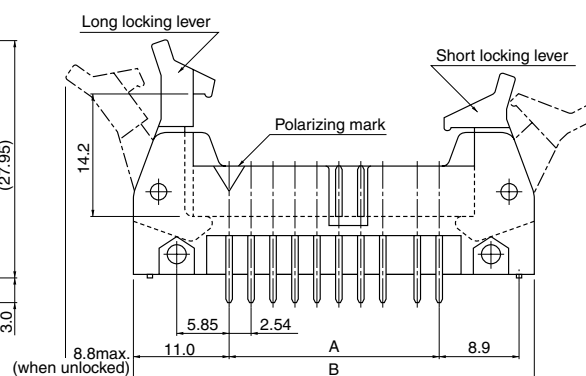
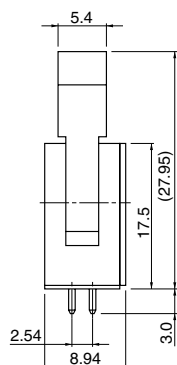
The standard gold-plated type is identified by the suffix number [-1110], but this suffix number is usually omitted. Other types must be identified by the full code number. Special types do not conform to the coding system in the left.

Long locking lever

Side entry type

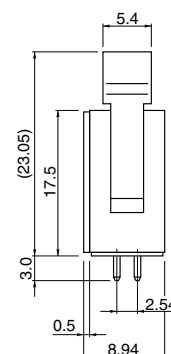


Top entry type



Short locking lever

Top entry type



Circuits	Type of locking lever	No. of guide grooves	Model No.				Dimensions (mm)		Q'ty / box
			Gold-plated header (With locking lever)		Tin-plated header (With locking lever)		A	B	
			Top entry type	Side entry type	Top entry type	Side entry type			
10	Long type	1	RA-H101TD	RA-H101SD	RA-H101TD-1190	RA-H101SD-1190	10.16	32.16	50
14		1	RA-H141TD	RA-H141SD	RA-H141TD-1190	RA-H141SD-1190	15.24	37.26	50
16		1	RA-H161TD	RA-H161SD	RA-H161TD-1190	RA-H161SD-1190	17.78	39.78	50
20		1	RA-H201TD	RA-H201SD	RA-H201TD-1190	RA-H201SD-1190	22.86	44.86	50
26		1	RA-H261TD	RA-H261SD	RA-H261TD-1190	RA-H261SD-1190	30.48	52.48	25
34	Short type	1	*RA-H341TD-2110	—	—	—	40.64	62.64	25
	Long type		RA-H341TD	RA-H341SD	RA-H341TD-1190	RA-H341SD-1190			
40	Short type	1	*RA-H401TD-2110	—	—	—	48.26	70.26	25
	Long type		RA-H401TD	RA-H401SD	RA-H401TD-1190	RA-H401SD-1190			
50	Short type	1	*RA-H501TD-2110	—	—	—	60.96	82.96	25
			*RA-H501TD	*RA-H501SD	*RA-H501TD-1190	*RA-H501SD-1190			
		Long type	2	RA-H502TD	RA-H502SD	RA-H502TD-1190			
60	Short type	1	*RA-H601TD-2110	—	—	—	73.66	95.66	25
			*RA-H601TD	*RA-H601SD	*RA-H601TD-1190	*RA-H601SD-1190			
		Long type	2	RA-H602TD	RA-H602SD	RA-H602TD-1190			

RoHS compliance This product displays (LF)(SN) on a label.

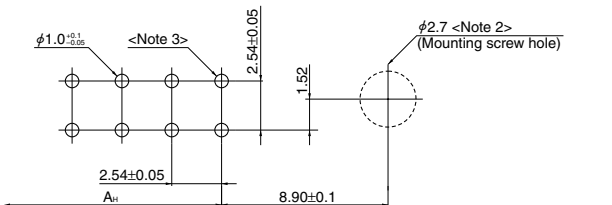
RoHS compliance This product displays (EP)(SN) on a label.
Note: 1. Headers with locking levers can be used only for receptacle with strain reliefs.

2.*Marked products are not CSA approved.

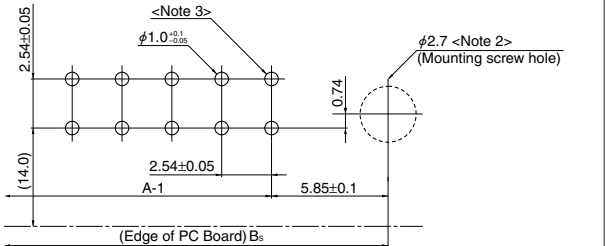
RA CONNECTOR

PC board layout (viewed from component side) _____

Top entry type



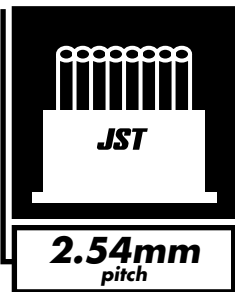
Side entry type



Circuits	Dimensions (mm)	
	A _H	B _s
10	10.16	21.86
14	15.24	26.94
16	17.78	29.48
20	22.86	34.56
26	30.48	42.18
34	40.64	52.34
40	48.26	59.96
50	60.96	72.66
60	73.66	85.36

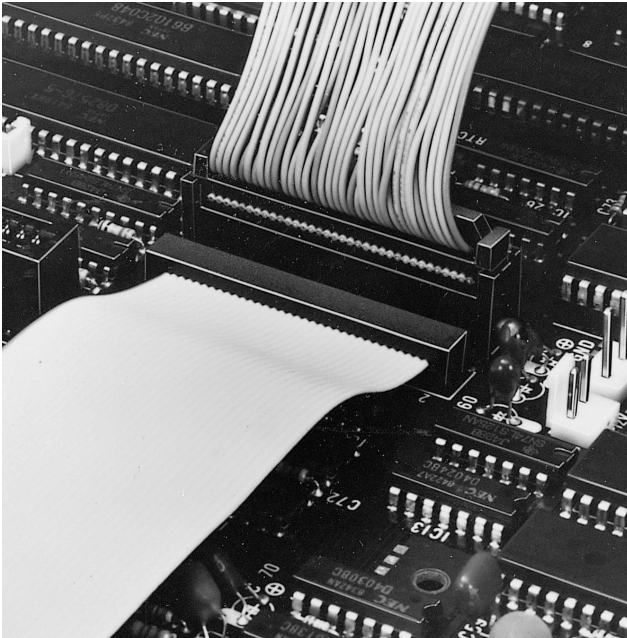
Note:

1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline.
Contact JST for details.
2. The mounting screw holes are not required for standard headers.
3. This is normally No. 1 pin position.

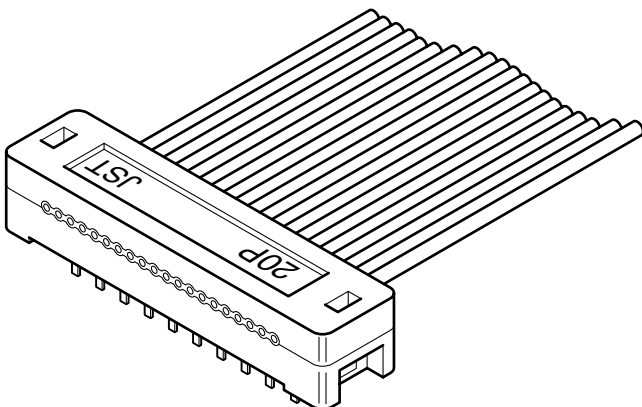


RC CONNECTOR

Board-in Insulation displacement connectors for 1.27mm pitch ribbon cables



The RC connector is a board-in type insulation displacement connector for 1.27mm pitch ribbon cables. The number of positions match the RA disconnectable connector series so that they can be used as a pair on opposite ends of a harness.



Features

• Low profile with high-density mounting

The RC board-in connector has a low profile with a mounting height of 6.8mm and a width of 6.54mm. It allows 2.54mm pitch grid wiring for high density.

• Use with an RA connector

This connector and a RA disconnectable connector can be used as a pair on opposite ends of a harness to reduce costs and mounting space.

• Two kinds of plating

The contact comes in gold and tin-plated versions.

Specifications

- Current rating: 1.0A AC, DC
- Voltage rating: 300V AC, DC
- Temperature range: (including temperature rise in applying electrical current)
-55°C to +105°C
- Insulation resistance: 5,000M Ω min.
- Withstanding voltage: 500V AC/5 seconds
- Applicable wire: AWG #28
1.27mm pitch ribbon cable
- Applicable PC board thickness: 1.6mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

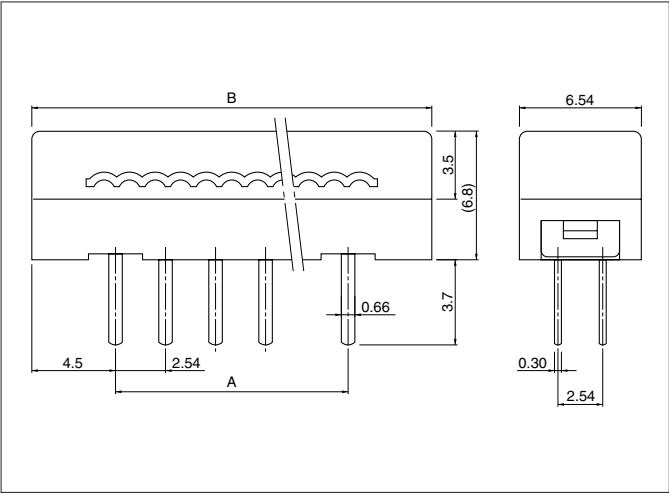
Standards

Recognized E60389

Certified LR20812

RC CONNECTOR

Connector



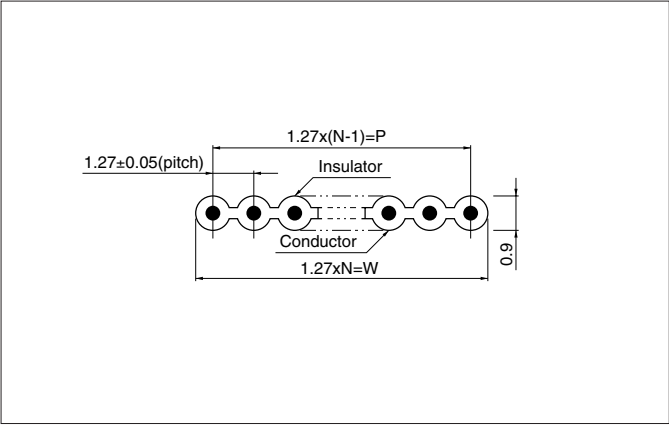
Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Gold-plated version	Tin-plated version	A	B	
10	RC-D10	RC-D10-290	10.16	19.16	400
14	RC-D14	RC-D14-290	15.24	24.24	200
16	RC-D16	RC-D16-290	17.78	26.78	200
20	RC-D20	RC-D20-290	22.86	31.86	200
26	RC-D26	RC-D26-290	30.48	39.48	200
34	RC-D34	RC-D34-290	40.64	49.64	100
40	RC-D40	RC-D40-290	48.26	57.26	100
50	RC-D50	RC-D50-290	60.96	69.96	100
60	RC-D60	RC-D60-290	73.66	82.66	100

Material and Finish

Housing: Glass-filled PBT, UL94V-0, black
Contact: Phosphor bronze
· Nickel-undercoated, Mating part; gold-plated
Solder tail; tin-plated (reflow treatment)
· Copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Applicable cable



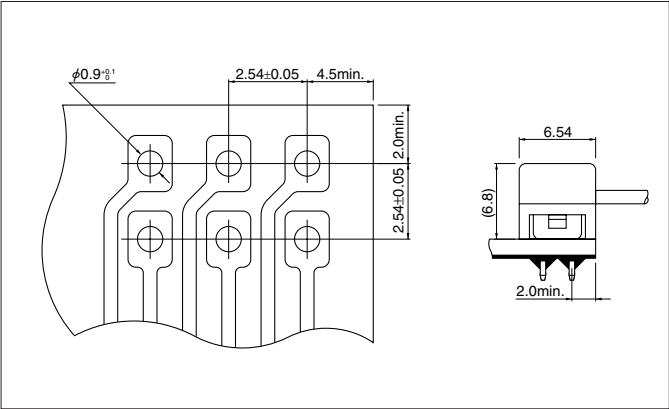
Note: N --- Number of circuits

Ribbon cables having the following specifications can be used with RC connectors. Contact JST for details.

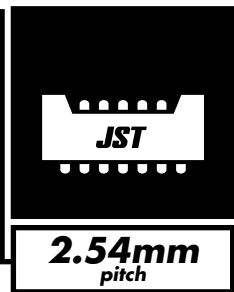
Conductor	AWG #28 stranded wire Construction: 7/0.127mm dia. Material: Tin-plated annealed copper wire
	AWG #28 solid wire Construction: 0.32mm dia. Material: Tin-plated annealed copper wire
Insulator	Soft vinyl chloride

No. of conductors(n)	Dimensional tolerance (mm)	
	P	W
10 to 14	±0.18	±0.3
16 to 26	±0.28	±0.3
34 to 60	±0.38	±0.3

PC board layout (viewed from soldering side) and Assembly layout

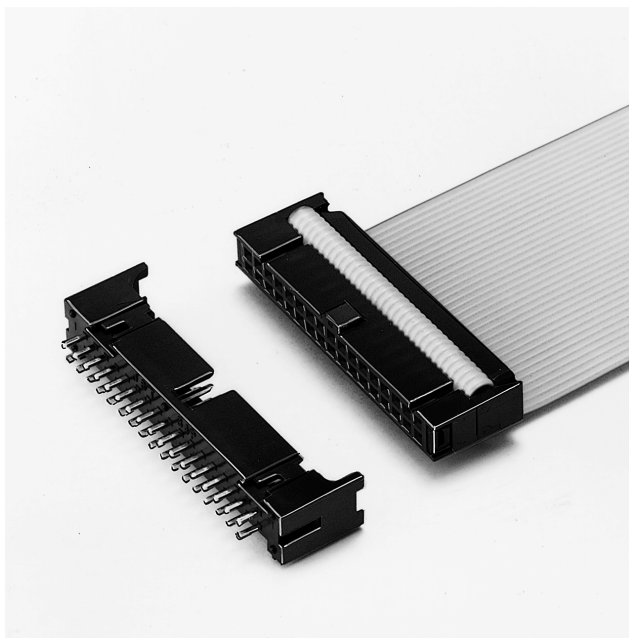


Note:
1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline.
Contact JST for details.

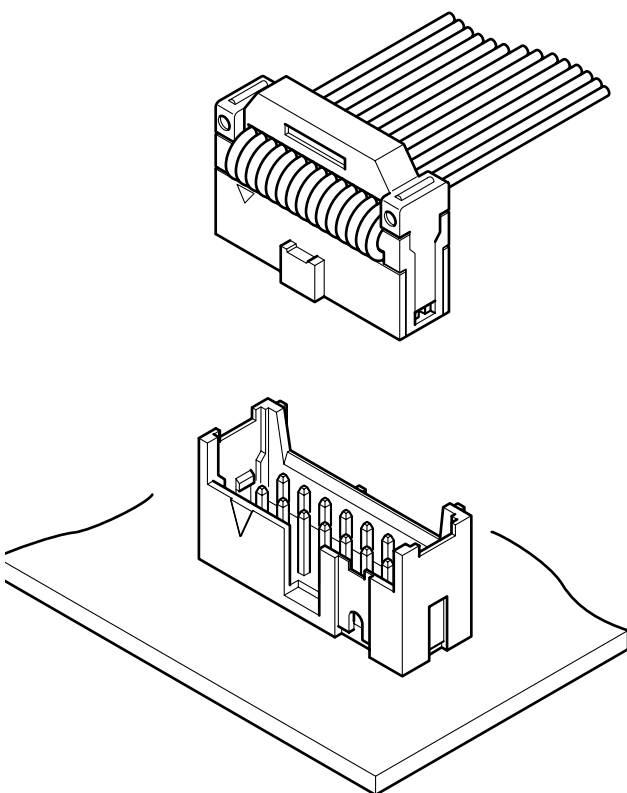


RK HEADER

Shrouded headers



This low profile box header is best suited for high-density, low-cost internal connections in office automation equipment.



Features

• Interchangeability

This header was designed to mate with the receptacle side of connectors conforming to MIL-C-83503, including JST's RA connector.

• Low cost

The posts are selectively gold-plated at their mating end and tin-plated on their solder side. This reduces costs without hampering the connector's effectiveness. (Headers with completely tin-plated contacts are also available.)

• Low-profile

The header has a low profile with a mounting height of 19.0mm when a plug with a strain relief is used.

This height is approximately 10.0mm lower than the mounting height of the conventional MIL-C-83503 header and thus maximizes the efficient use of space in electronic equipment.

• No contamination by flux or cleaning fluids

Sufficient stand-off area is provided to prevent flux and cleaning fluid contamination.

Specifications

- Current rating: 1.0A AC, DC
- Voltage rating: 300V AC, DC
- Temperature range: (including temperature rise in applying electrical current)
 - 55°C to +125°C(gold-plated)
 - 55°C to +105°C(tin-plated)
- Applicable PC board thickness: 1.6mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

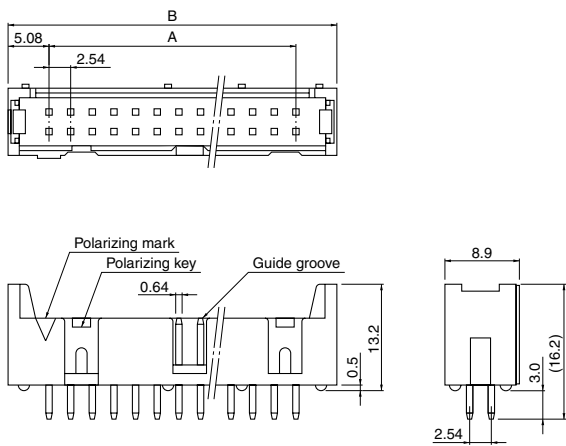
Recognized E60389

Certified LR20812

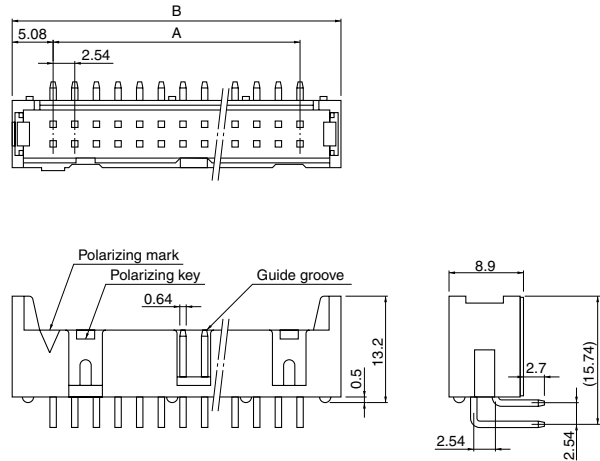
RK HEADER

Connector

Top entry type



Side entry type



Cir- cuits	Model No.				Guide groove	Polariz- ing key	Dimensions (mm)		Q'ty / box
	Gold-plated header		Tin-plated header				A	B	
	Top entry type	Side entry type	Top entry type	Side entry type					
14	RK-H141TD-0130	RK-H141SD-0110	RK-H141TD-0190	RK-H141SD-0190	1	1	15.24	25.40	100
34	RK-H341TD-0130	RK-H341SD-0110	RK-H341TD-0190	RK-H341SD-0190	1	2	40.64	50.80	50
40	RK-H401TD-0130	RK-H401SD-0110	RK-H401TD-0190	RK-H401SD-0190	1	2	48.26	58.42	50

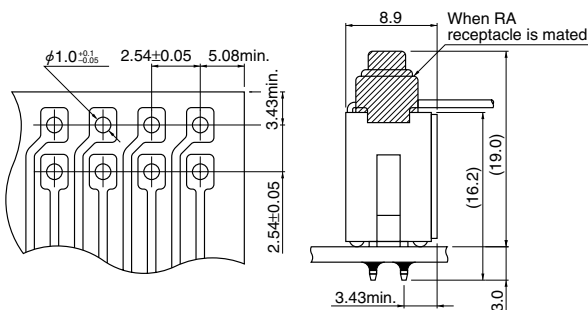
Material and Finish

Post: Gold-plated product: Side entry type; Brass, nickel-undercoated, Mating part; gold-plated,
Insulation displacement part; tin-plated (reflow treatment)
Top entry type; Brass, nickel-undercoated, Overall; gold-plated
Tin-plated product: Brass, copper-undercoated, tin-plated (reflow treatment)
Housing: PBT, UL94-0, black

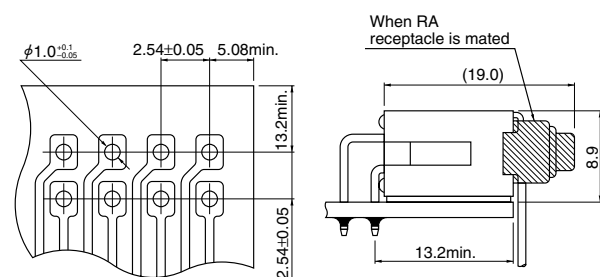
RoHS compliance This product displays (LF)(SN) on a label. (Except gold-plated product, top entry type)

PC board layout (viewed from soldering side) and Assembly layout

Top entry type

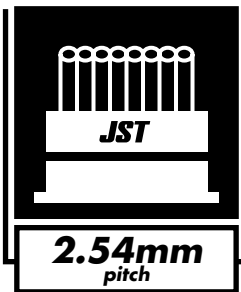


Side entry type



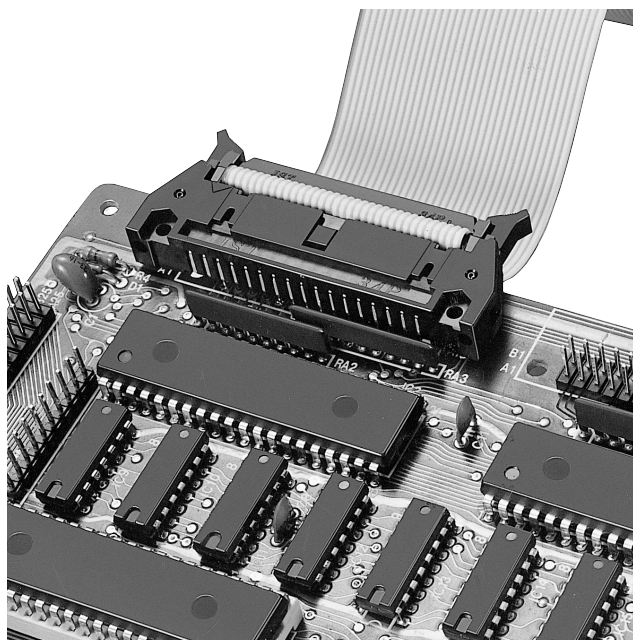
Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline.
Contact JST for details.

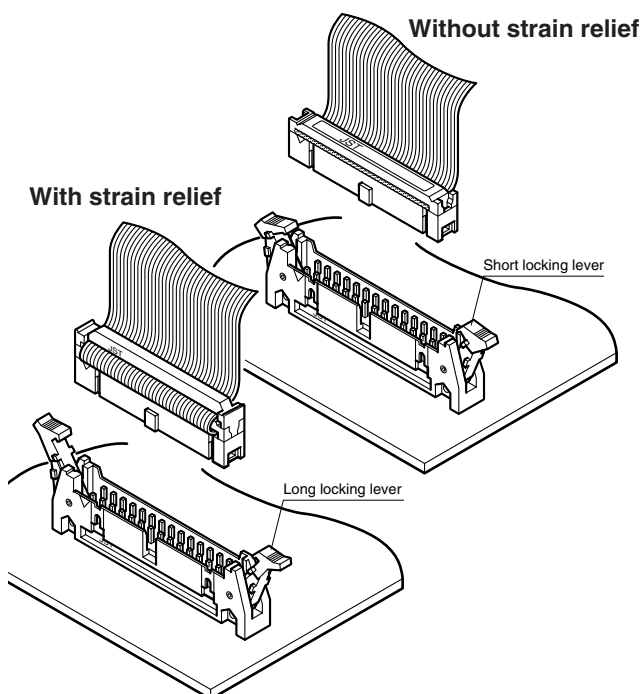


RX CONNECTOR

Disconnectable Insulation displacement connectors for 1.27mm pitch ribbon cables



Contemporary needs require that electronic equipment be high in density, modular in construction and multi-functional. In addition, the costs of such connection systems must be reduced. To meet these needs, particularly in the video and audio fields, we offer JST's highly reliable and cost-efficient RX connectors. These connectors reflect displacement connection technology as well as its advanced production techniques.



Features

• **Conforms to MIL Standards**

JST's RX connectors conform to MIL standards (MIL-C-83503) and are compatible with its RA connectors.

• **Secure locking mechanism**

The locking levers are engaged by inserting the receptacle into the header. This ensures a firm connection that's highly resistant to impact and vibration. To save space, JST has also made available short locking levers which provides a firm connection even when the receptacle has no strain relief.

• **Cost-efficient**

To reduce costs, only the mating sections of the receptacle contacts and header posts are gold-plated. JST's wealth of mass-production technology allows it to produce connectors that are extremely reliable and cost-efficient.

• **Post suited for high-density patterns**

The mating section of the header post is 0.64mm square. The printed circuit board solder section of the post is 0.60mm in diameter. This small size greatly facilitates high-density design of printed circuit boards.

* Compliant with RoHS.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

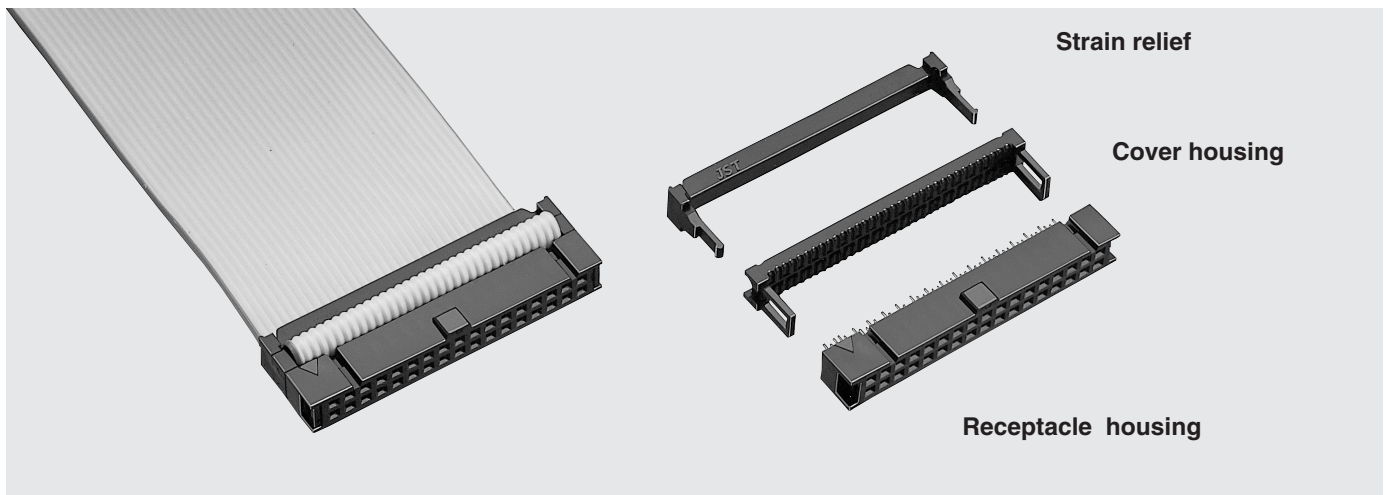
* Contact JST for details.

Standards

Recognized E60389

Certified LR20812

Receptacle



Specifications

Characteristics

Current rating	1.0A AC, DC
Voltage rating	300V AC, DC
Temperature range	(including temperature rise in applying electrical current) -55°C to +125°C (gold-plated) -55°C to +85°C (tin-plated)
Contact resistance	Initial value: 20mΩ max. After environmental testing: 30mΩ max.
Insulation resistance	5,000MΩ min.
Withstanding voltage	500V AC/5 seconds
Applicable wire	AWG #28, 1.27mm pitch ribbon cables

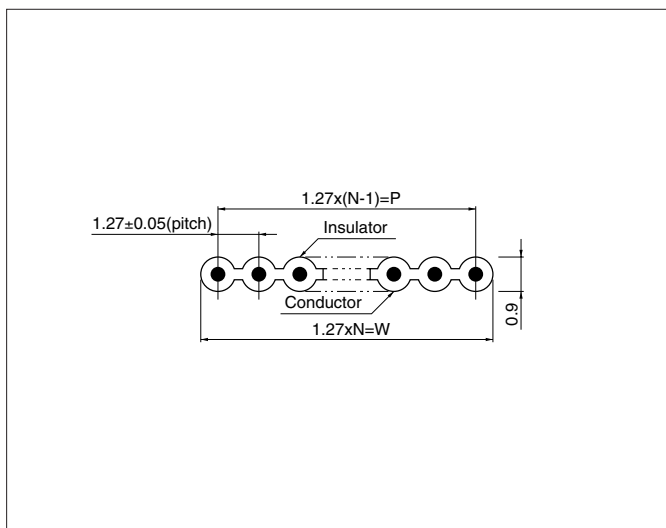
Materials

Contact	Phosphor bronze • Nickel-undercoated Mating part: gold-plated Insulation displacement part: tin-plated (reflow treatment) • Copper-undercoated, tin-plated (reflow treatment)
Receptacle housing	Glass-filled PBT, UL94V-0, black
Cover housing	Glass-filled PA 66, UL94V-0, black
Strain relief	Glass-filled PA 66, UL94V-0, black

*Contact JST details.

Applicable cables

Ribbon cables conforming to the following specifications can be used with RX connector receptacles. Contact JST for details.



Note: N --- Number of circuits

Conductor	AWG #28 stranded wire Construction: 7/0.127mm dia. Material: Tin-plated annealed copper wire
	AWG #28 solid wire Construction: 0.32mm dia. Material: Tin-plated annealed copper wire
Insulator	Soft vinyl chloride

Number of conductors (n)	Dimensional tolerance (mm)	
	P	W
10 to 14	±0.18	±0.3
16 to 26	±0.28	±0.3
34 to 60	±0.38	±0.3

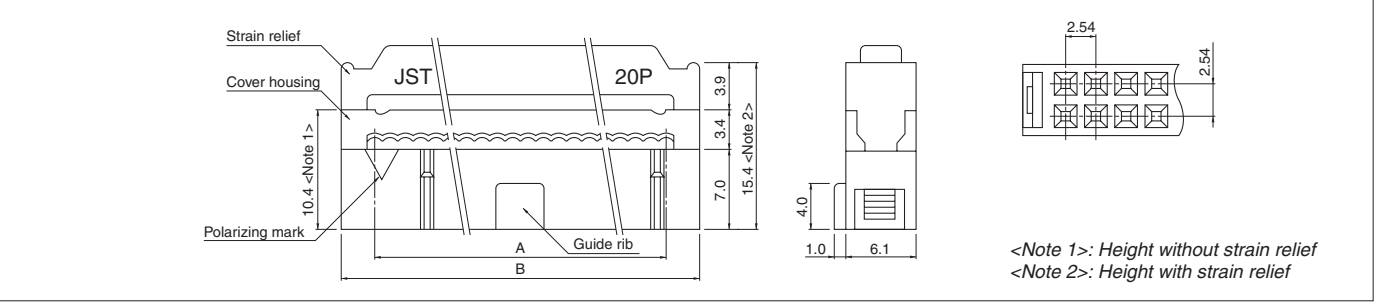
RX CONNECTOR

Model number identification

• Series name	RX	S	50	1	S	1	3	10
• Product name: Receptacle								
• Number of circuits: 20, 26, 34, 40, 50, 60								
• Number of guide grooves: 1 ... 20 to 60 circuits								
• Connection method: S ... Short locking, through type								
• With or without strain relief without: 0 with: 1								
• Material of contact: 3 ... Phosphor bronze for spring								
• Surface finish 10... Gold flash 12... 0.2micron(8micro-inch)gold-plated 13... 0.4micron(16micro-inch)gold-plated 14... 0.76micron(30micro-inch)gold-plated 90... Tin-plated (reflow treatment)								

Note:
The standard gold-plated type is identified by the suffix number [-1310] but this suffix number is usually omitted. Other types must be identified by the full code number.

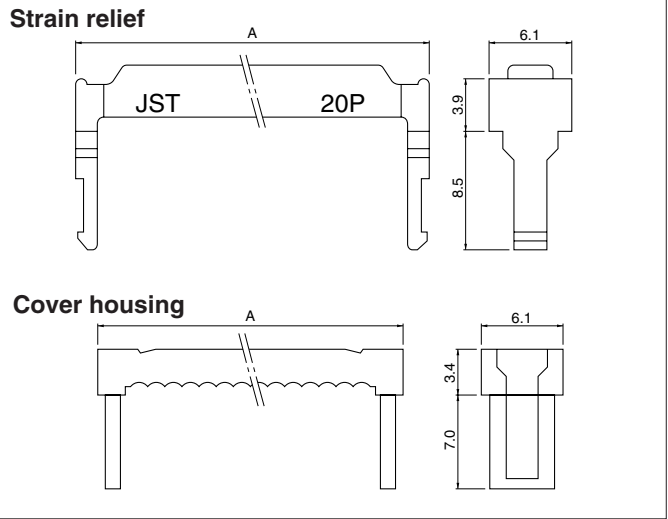
Receptacle



Cir- cuits	Model No.				Guide ribs	Dimensions (mm)		Q'ty / box
	Gold-plated receptacle		Tin-plated-receptacle			A	B	
	With strain relief	Without strain relief	With strain relief	Without strain relief				
20	RX-S201S	RX-S201S-0310	RX-S201S-1390	RX-S201S-0390	1	22.86	30.00	150
26	—	RX-S261S-0310	—	RX-S261S-0390	1	30.48	37.62	150
34	RX-S341S	RX-S341S-0310	RX-S341S-1390	RX-S341S-0390	1	40.64	47.78	100
40	RX-S401S	RX-S401S-0310	RX-S401S-1390	RX-S401S-0390	1	48.26	55.40	100
50	RX-S501S	RX-S501S-0310	RX-S501S-1390	RX-S501S-0390	1	60.96	68.10	75
60	RX-S601S	RX-S601S-0310	RX-S601S-1390	RX-S601S-0390	1	73.66	80.80	75

RoHS compliance This product displays (LF)(SN) on a label.

Strain relief and cover housing

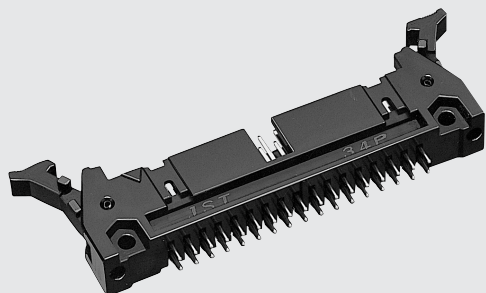


Circuits	Model No.		Dimension A (mm)
	Strain relief	Cover housing	
20	RX-SR20T	RX-CH20S	30.00
26	—	RX-CH26S	37.62
34	RX-SR34T	RX-CH34S	47.78
40	RX-SR40T	RX-CH40S	55.40
50	RX-SR50T	RX-CH50S	68.10
60	RX-SR60T	RX-CH60S	80.85

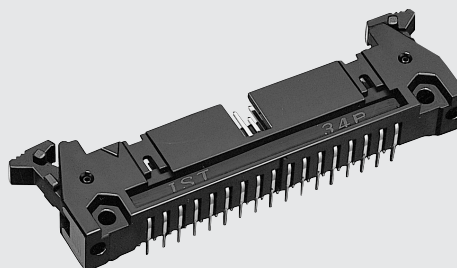
RoHS compliance

Shrouded header

Top entry type
with long locking lever



Side entry type
with short locking lever



Specifications

Characteristics

Current rating	1.0A AC, DC
Voltage rating	300V AC, DC
Temperature range	(including temperature rise in applying electrical current) -55°C to +125°C (gold-plated) -55°C to +85°C (tin-plated)
Insulation resistance	5,000MΩ min.
Withstanding voltage	500V AC/5 seconds
Applicable PC board thickness	1.6mm

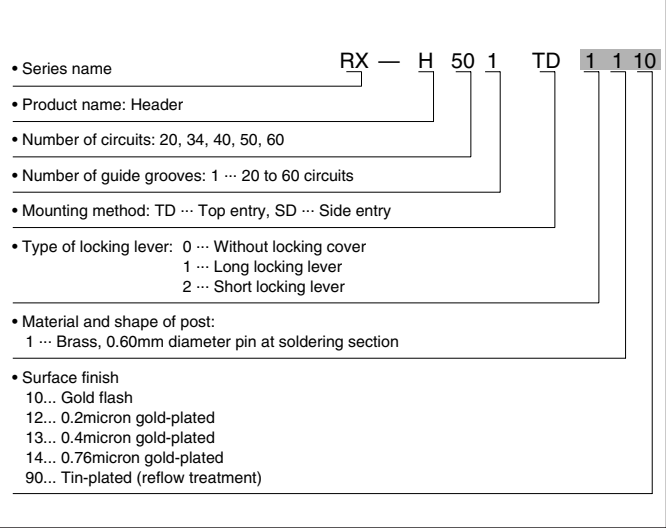
Materials

Contact	Brass • Nickel-undercoated Mating part; gold-plated Solder tail; tin-plated (reflow treatment) • Copper-undercoated, tin-plated (reflow treatment)
Housing	Glass-filled PBT, UL94V-0, black
Locking lever	Glass-filled PBT, UL94V-0, black

Note: Contact JST for details.

RX CONNECTOR

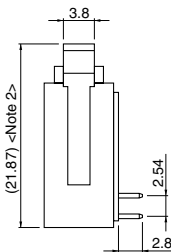
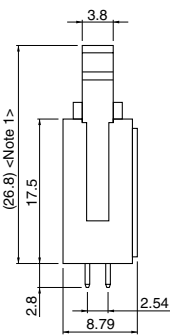
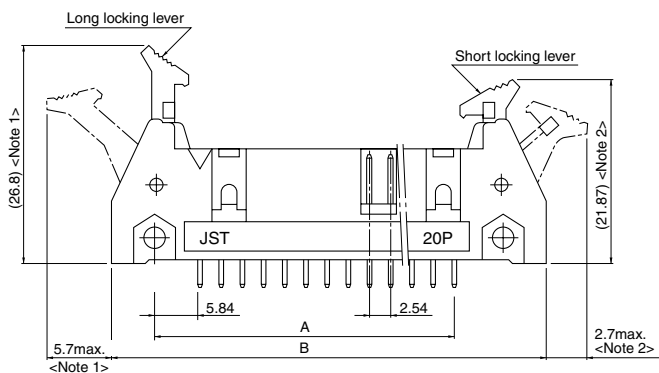
Model number identification



Note:
The standard gold-plated type is identified by the suffix number [-1110] but this suffix number is usually omitted. Other types must be identified by the full code number.

Top entry type

Side entry type



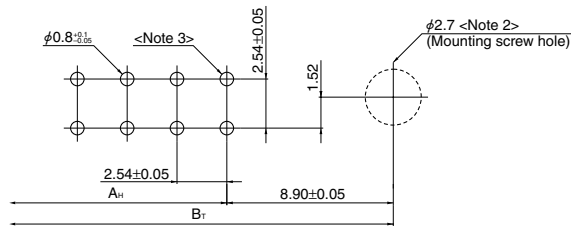
<Note 1>: With long locking levers
<Note 2>: With short locking levers

Cir- cuits	Type	Model No.				Guide grooves	Dimensions (mm)		Q'ty / box
		Gold-plated header		Tin-plated-header			A	B	
		Top entry type	Side entry type	Top entry type	Side entry type				
20	Long	RX-H201TD	RX-H201SD	RX-H201TD-1190	RX-H201SD-1190	1	22.86	44.66	50
	Short	RX-H201TD-2110	RX-H201SD-2110	RX-H201TD-2190	RX-H201SD-2190	1			
34	Long	RX-H341TD	RX-H341SD	RX-H341TD-1190	RX-H341SD-1190	1	40.64	62.44	25
	Short	RX-H341TD-2110	RX-H341SD-2110	RX-H341TD-2190	RX-H341SD-2190	1			
40	Long	RX-H401TD	RX-H401SD	RX-H401TD-1190	RX-H401SD-1190	1	48.26	70.06	25
	Short	RX-H401TD-2110	RX-H401SD-2110	RX-H401TD-2190	RX-H401SD-2190	1			
50	Long	RX-H501TD	RX-H501SD	RX-H501TD-1190	RX-H501SD-1190	1	60.96	82.76	25
	Short	RX-H501TD-2110	RX-H501SD-2110	RX-H501TD-2190	RX-H501SD-2190	1			
60	Long	RX-H601TD	RX-H601SD	RX-H601TD-1190	RX-H601SD-1190	1	73.66	95.46	25
	Short	RX-H601TD-2110	RX-H601SD-2110	RX-H601TD-2190	RX-H601SD-2190	1			

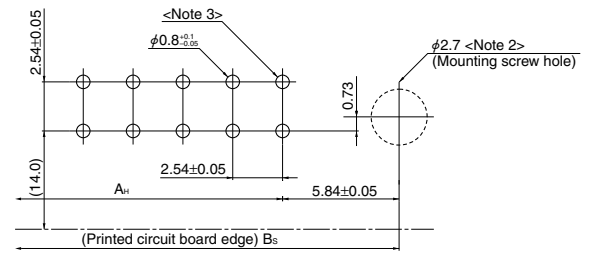
RoHS compliance This product displays (LF)(SN) on a label.

PC board layout (viewed from component side)

Top entry type



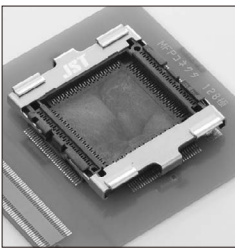
Side entry type



Circuits	Dimensions (mm)		
	A _H	B _T	B _S
20	22.86	40.66	34.54
34	40.64	58.44	52.32
40	48.26	66.06	59.94
50	60.96	78.76	72.64
60	73.66	91.46	85.34

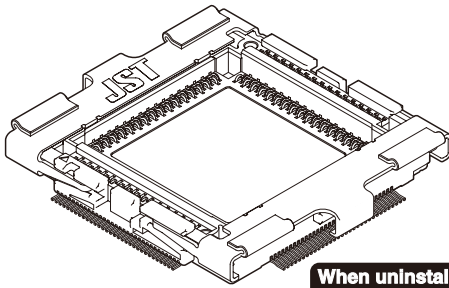
Note:

1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.
2. The mounting screw holes are required for mounting headers on printed circuit boards but are not required for standard header.
3. This is normally the No. 1 circuit position.

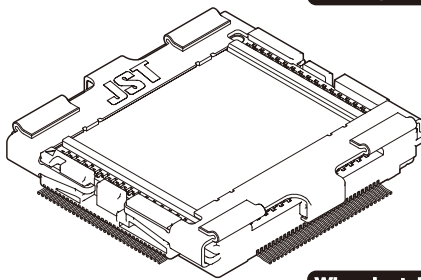


MFP CONNECTOR

0.65mm pitch/Socket for Flash Package



When uninstalling
memory flash package



When installing
memory flash package

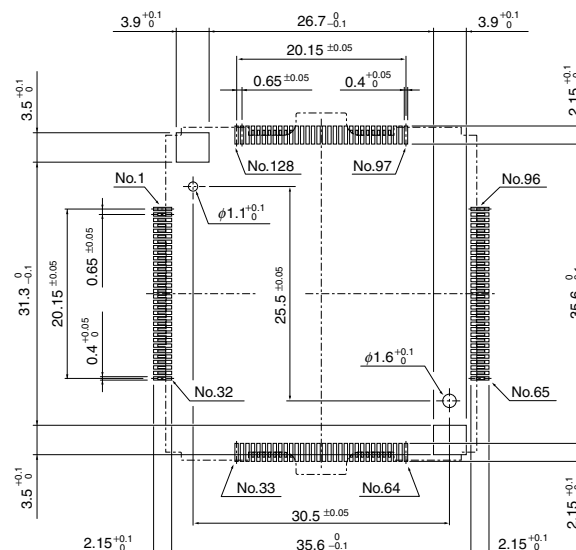
This connector is an IC socket corresponding to the flash package for memory of picture in game machine.

- **High reliability of connection**
- **Adopting the holding mechanism by the metal slider**
- **Use of an exclusive jig for mounting and dismounting (Injustice prevention)**
- **Structure of preventing miss-mounted connector on PC board and miss-installed memory flash package into the connector**
- **Product with dust cover is provided as standard product**

Specifications

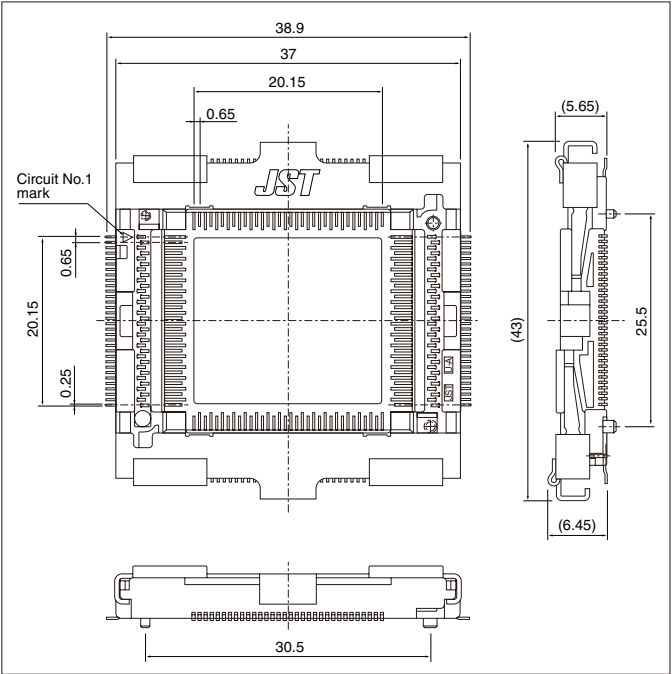
- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Insulation resistance: 125MΩ min.
- Withstanding voltage: 150V AC/minute
- Applicable PC board thickness: 1.6mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Contact JST when using other thickness PC board.
- * Contact JST for applicable memory flash package.

PC board layout



MFP CONNECTOR

Connector



Model No.	Q'ty / box
MFP-128SK-1402MB (C)	60

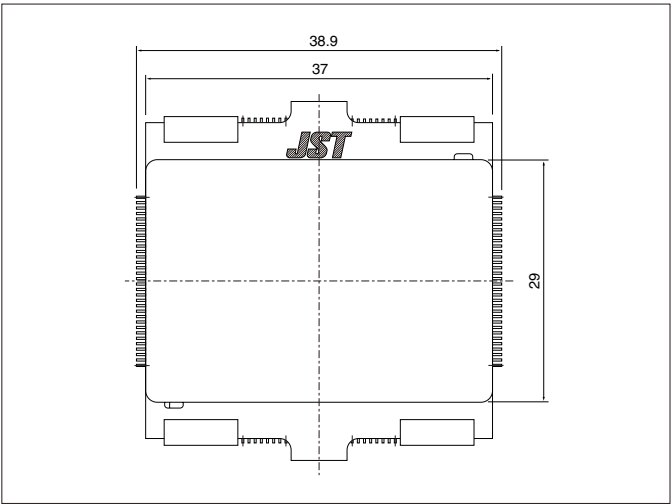
Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated
Housing: Heat resisting resin, UL94V-0
Dust cover: Heat resisting resin, UL94V-0
Reinforcing tab: Copper alloy, copper-undercoated, tin-plated
Metal slider: Stainless steel

RoHS compliance

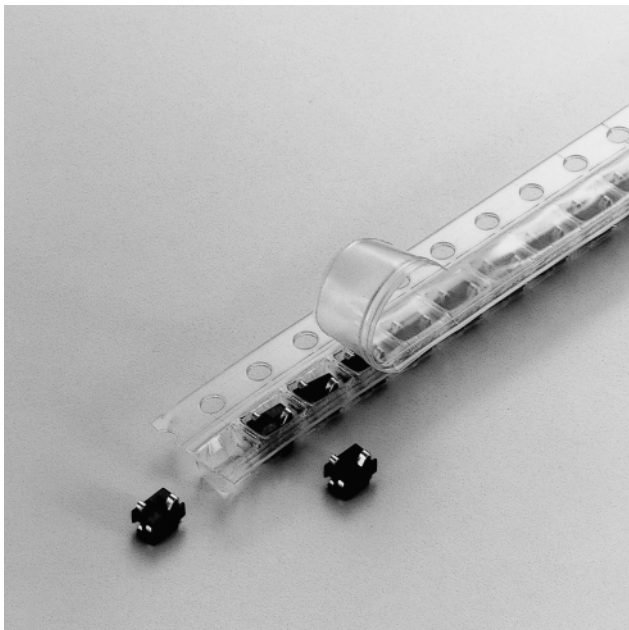
Note: 1. The above-mentioned product is product with dust cover.
2. Contact JST for product without dust cover.

Connector (Assembling drawing with dust cover)

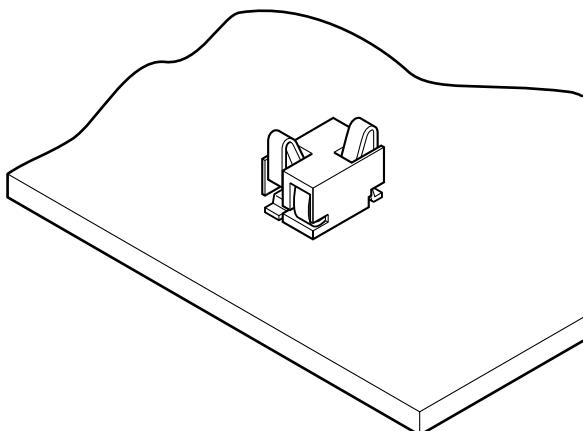


Jig for memory flash package mounting and dismounting

Exclusive jig for mounting and dismounting	
Jig	Model No.
Jig for memory flash package mounting	IT-MFP01
Jig for memory flash package dismounting	EJ-MFP01



Compression type connector developed for compact equipment such as mobile phone.



Features

- **Compact**

Projected area is only 2.0 x 2.8mm, with 1.8mm height.

- **High contact pressure**

Despite its smallness, the contact provides contact pressure of 0.7N per circuit thanks to the curled spring design, giving stable contact performance even under conditions of vibration.

- **Heat resisting design suitable for surface mounting**

The housing is made of highly heat resisting resin to allow reflow soldering.

- **Emboss taping for automatic mounting**

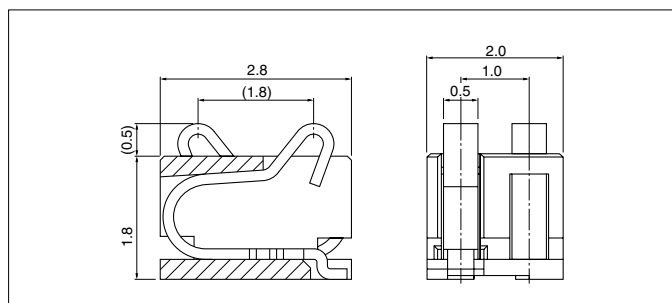
The MIH connector is supplied in the form of emboss taping for automatic mounting.

Specifications

- Current rating: 0.5A DC
- Voltage rating: 20V DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/30m Ω max.
After environmental testing/50m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 100V AC/minute
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

MIH CONNECTOR

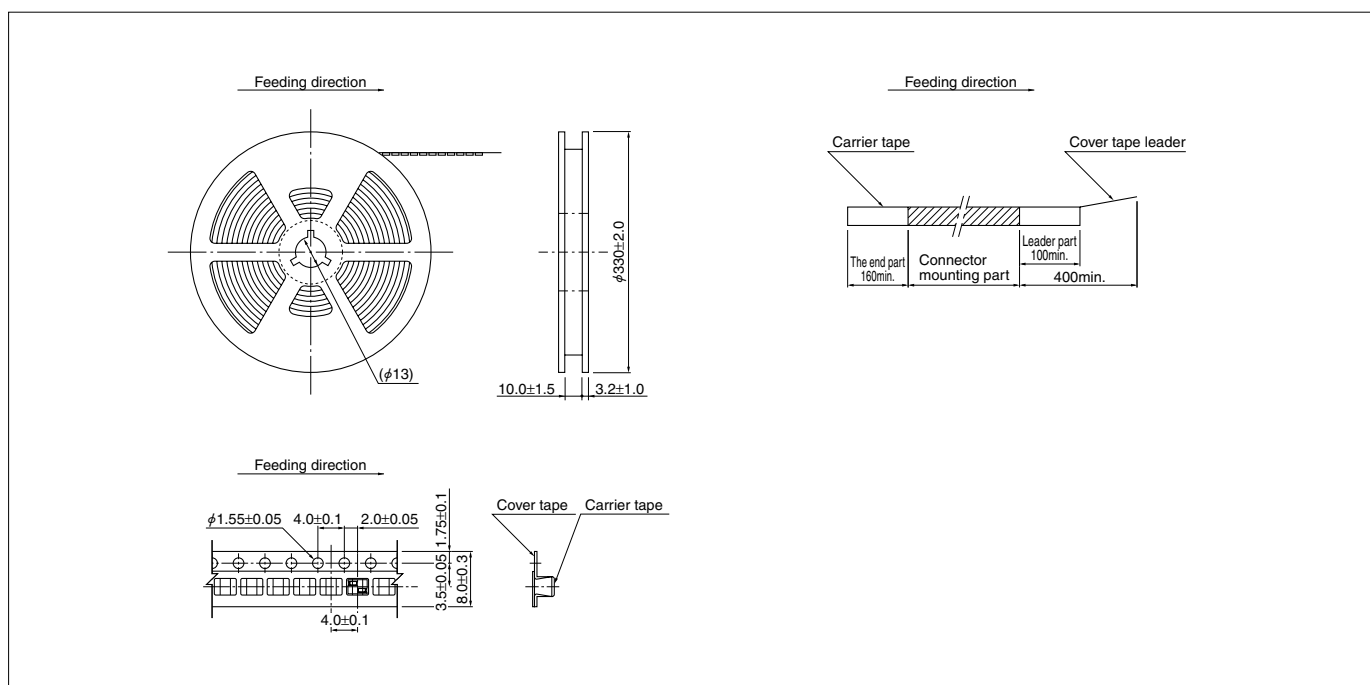
Contact



Model No.	Material and Finish	Q'ty / reel
MIH-2-412-TF	Contact: Beryllium copper alloy, nickel-undercoated, gold-plated Housing: Glass-filled LCP, UL94V-0, black	6,000

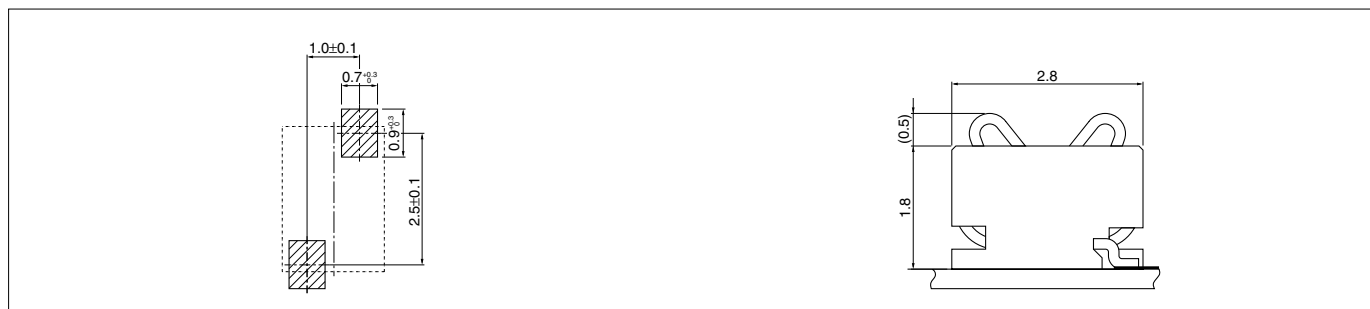
RoHS compliance

Taping specifications



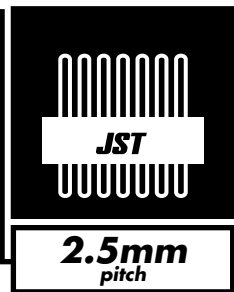
Note: 1. Specifications conform to JIS C 0806. The tape width, connector loading recess square hole dimensions, etc. are determined by the number of circuits and external shape of the connector to be loaded.
2. Specifications are subject to change without prior notice.

PC board layout (viewed from component side) and Assembly layout



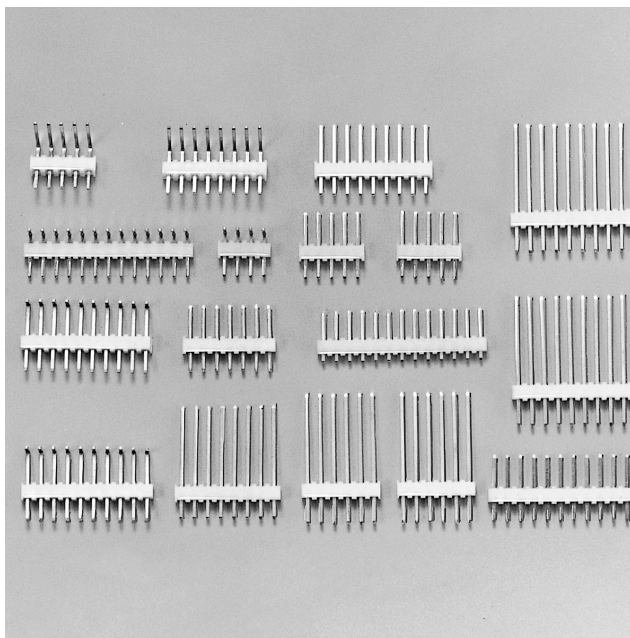
Note:
1. Tolerances are non-cumulative: ± 0.1 mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Header



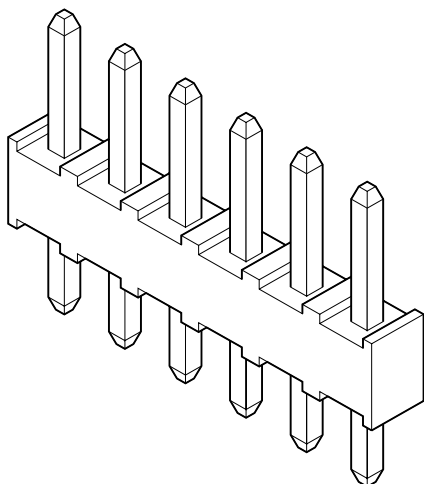
2.5SB HEADER

Headers



The SB headers can be used to connect any 2.5mm receptacles to printed circuit boards. They can also be used to directly connect PC boards. They come in pitches of 2.5mm and in both top entry and side entry type models.

2.54mm pitch SB headers are also available. In addition, 2.0mm pitch BC headers are available.



Specifications

- Current rating: 3A AC, DC
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Post: Brass, copper-undercoated, tin-plated (reflow treatment)
- Wafer: PA 66, UL94V-0(natural)
- Pitch: 2.5mm
- Number of circuits: 2 to 20
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

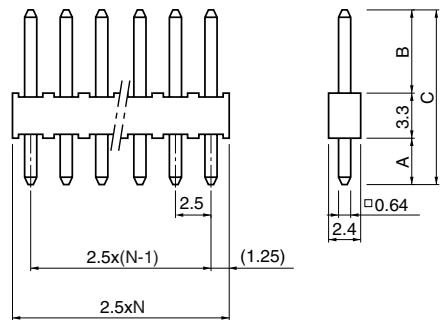
 Recognized E60389

 Certified LR20812

2.5SB HEADER

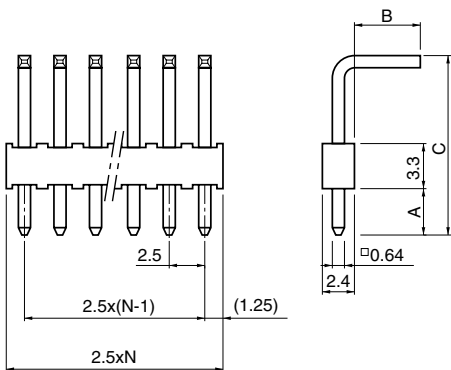
Header

Top entry type



Note: N --- Number of circuits

Side entry type



Note: N --- Number of circuits

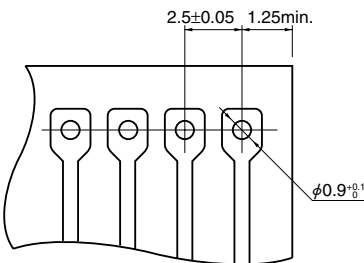
Model No.	Dimensions (mm)		
	A	B	C
SB()P-HVQ-A	5.0	16.5	24.8
SB()P-HVQ-B	4.0	8.7	16.0
SB()P-HVQ-C	0.4	10.5	14.2
SB()P-HVQ-CA	3.4	7.5	14.2
SB()P-HVQ-S	3.4	6.0	12.7
SB()P-HVQ-N	6.35	6.35	16.0
SB()P-HVQ-15	6.3	13.7	23.3
SB()P-HVQ-16	3.3	7.5	14.1
SB()P-HVQ-22	3.4	11.1	17.8
SB()P-HVQ-23	3.5	5.7	12.5
SB()P-HVQ-24	3.4	13.7	20.4
SB()P-HVQ-27	4.0	3.5	10.8
SB()P-HVQ-28	1.5	5.1	9.9
SB()P-HVQ-29	2.5	14.0	19.8
SB()P-HVQ-30	3.4	14.8	21.5
SB()P-HVQ-34	3.3	3.3	9.9

RoHS compliance This product displays (LF)(SN) on a label.
*The number of circuits (2 to 20) will be filled in the parentheses above.

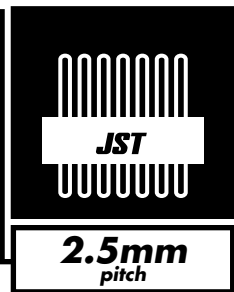
Model No.	Dimensions (mm)		
	A	B	C
MB()P-90	3.5	3.5	8.8
MB()P-90H	3.4	7.6	9.7
MB()P-90S	4.3	7.9	8.3
MB()P-90-2	2.3	2.5	7.6

RoHS compliance This product displays (LF)(SN) on a label.
*The number of circuits (2 to 20) will be filled in the parentheses above.

PC board layout (viewed from soldering side)

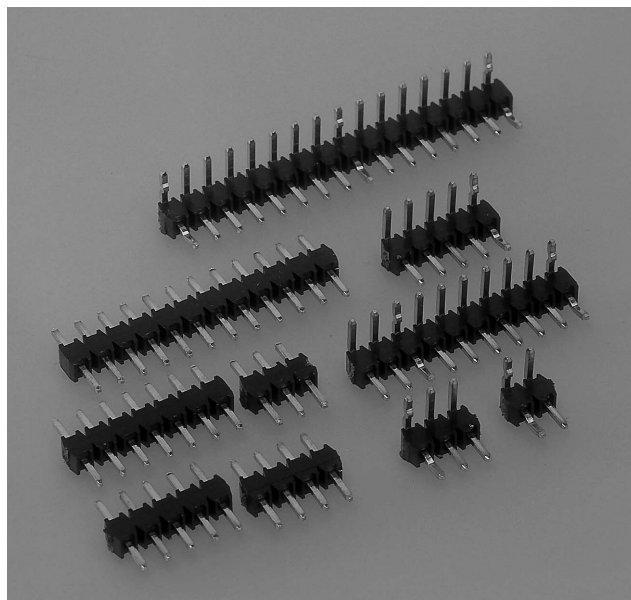


Note:
1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline.
Contact JST for details.

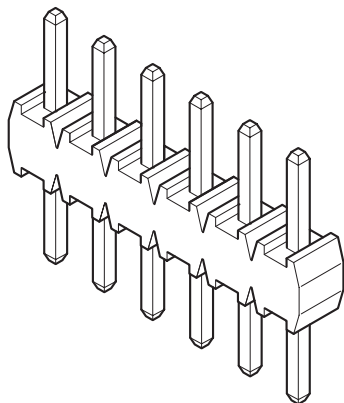


TB HEADER

Headers



This header, measuring 2.5mm in pitch, can be easily cut into any required length. Thus, only one size needs to be stocked for prototyping and preproduction purposes.



Specifications

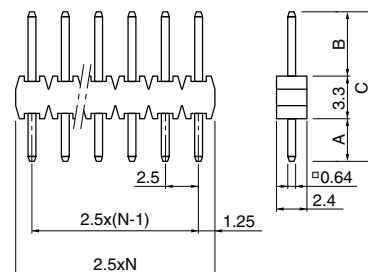
- Current rating: 3A AC, DC
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C (including temperature rise in applying electrical current)
- Post: Brass, copper-undercoated tin-plated (reflow treatment)
- Wafer: Glass-filled PBT, UL94V-0
- Pitch: 2.5mm
- Number of circuits: 2 to 24
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Specifications

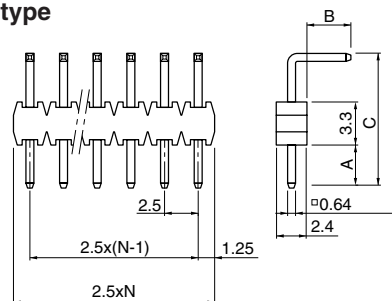
Recognized E60389

Header

Top entry type



Side entry type



Note: N --- Number of circuits

Circuits	Model No.	
	Top entry type	Side entry type
2 to 24	B ()P-TB (*)	B ()PS-TB (*)

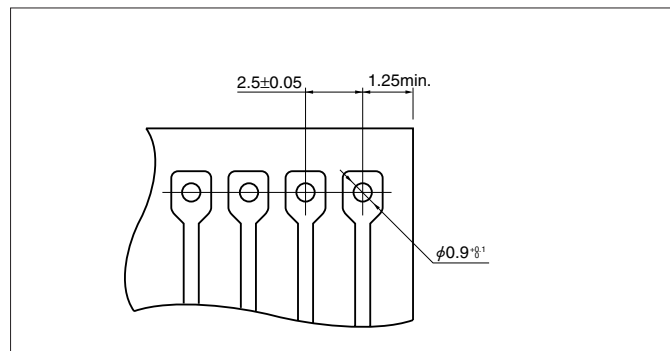
RoHS compliance This product displays (LF)(SN) on a label.

Note:

1. The number of circuits (2 to 24) will be filled in the parentheses above.
2. (*) differs according to the dimensions A, B & C, and to the post clinching specification.

Contact JST for details.

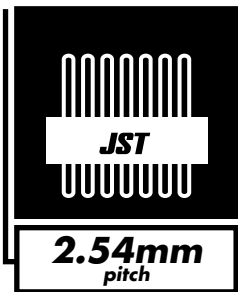
PC board layout (viewed from soldering side)



Note:

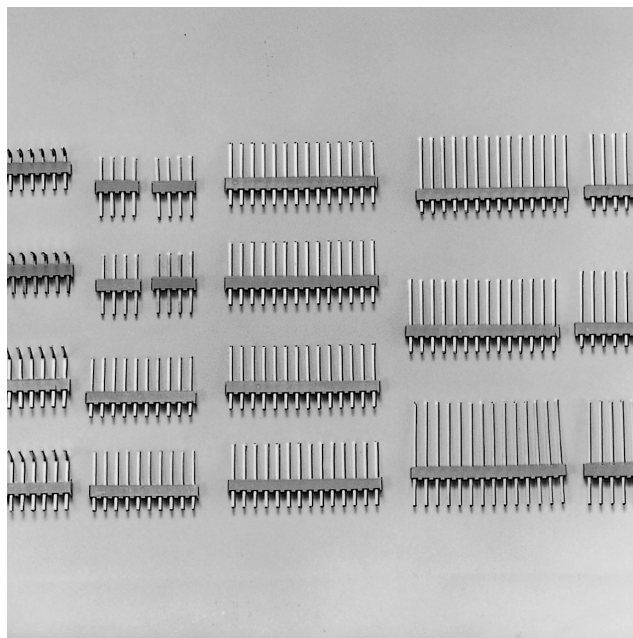
1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline.

Contact JST for details.

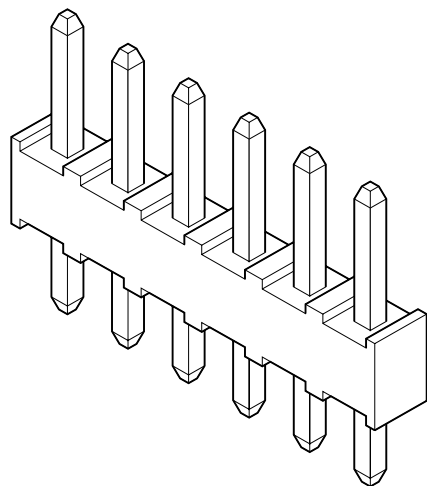


2.54SB HEADER

Headers



The 2.54mm pitch SB headers can be used to directly interconnected printed circuit boards. They come in both straight and right angle models. 2.5mm pitch SB headers are also available. In addition, 2.0mm pitch BC headers are available.



Specifications

- Current rating: 3A AC, DC
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Post: Brass, copper-undercoated tin-plated (reflow treatment)
- Wafer: PA 66, UL94V-0, green
- Pitch: 2.54mm
- Number of circuits: 2 to 20
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

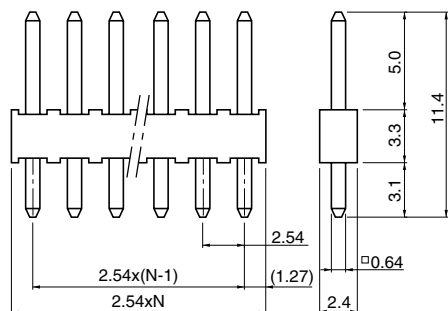
 Recognized E60389

 Certified LR20812

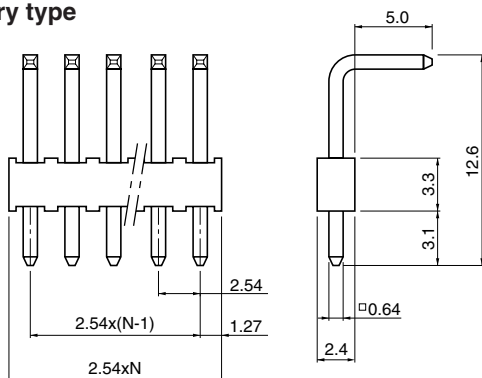
2.54SB HEADER

Header

Top entry type



Side entry type



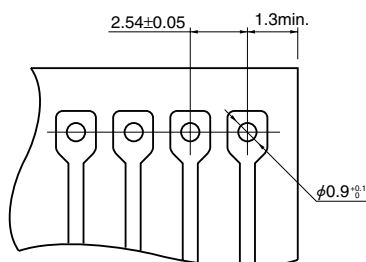
Note: N --- Number of circuits

Circuits	Model No.	
	Top entry type	Side entry type
2 to 20	T()B-SQ	TS()B-SQ

RoHS compliance This product displays (LF)(SN) on a label.

*The number of circuits (2 to 20) will be filled in the parentheses above.

PC board layout (viewed from soldering side)



Note:

1. Tolerances are non-cumulative: ± 0.05 mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

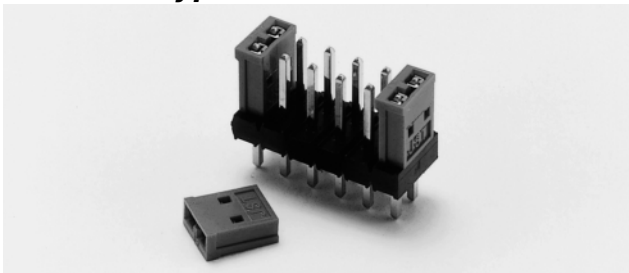


2.54mm
pitch

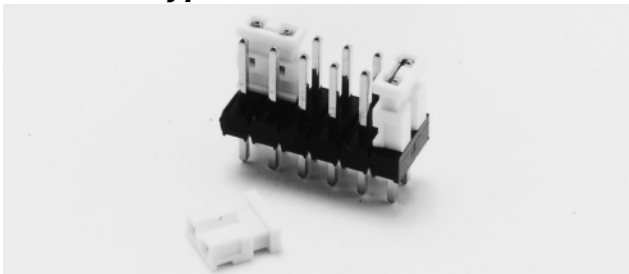
JM CONNECTOR

Jumper connectors

Standard type

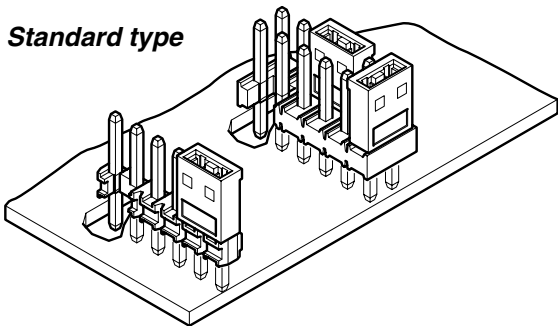


Grooved type

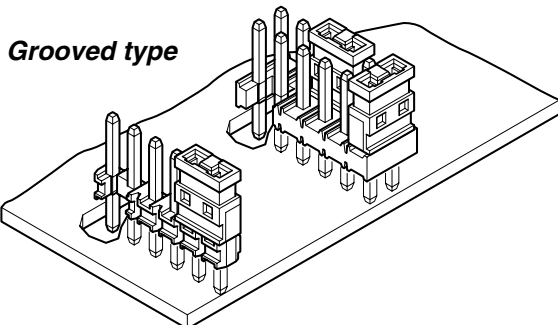


This is a two-circuit jumper connector suited for changing or switching circuits on printed circuit boards without using DIP switches. It is compact and light, thus can be mounted on printed circuit boards without interfering with the placement of other components. The connector is easy to use, low in cost, and has a wide range of applications in industrial and consumer products.

Standard type



Grooved type



Features

• Stackable

This connector is stackable in both directions.

• Low profile

This connector measures 8.5mm high after mounting. The receptacle is 6.0mm high.

• High reliability

Each contact makes an electrical connection with its mating header post at two points. This redundancy ensures continuity even under adverse environmental conditions.

• Through style

The receptacle allows the mating post to pass completely through and measures 6.0mm in height. It is suited for various headers having posts measuring 6.0mm or more in height.

• Provides convenient test points

Provides extra test points where circuits can be checked without the disassembly of components.

Specifications

- Current rating: 3A AC, DC
 - Voltage rating: 250V AC, DC
 - Temperature range: -55°C to +125°C
(including temperature rise in applying electrical current)
 - Contact resistance: Initial value/20m Ω max.
After environmental testing/30m Ω max.
 - Insulation resistance: 1,000M Ω min.
 - Withstanding voltage: 800V AC/minute
 - Applicable PC board thickness: 1.2 to 1.6mm
 - Number of circuits: RE header 2 to 30
RF header 2 to 60 (even numbers only)
- * RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

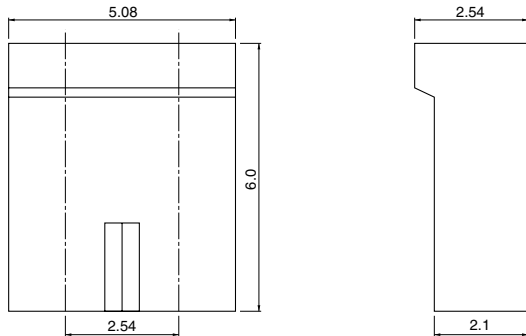
Standards

 Recognized E60389

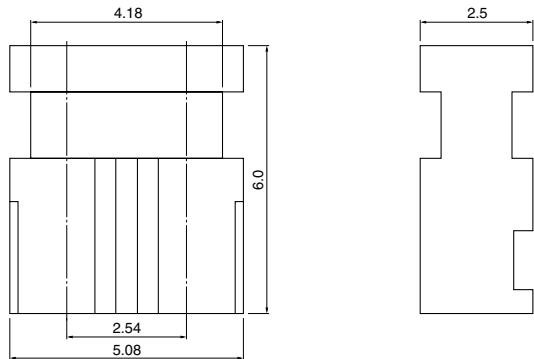
 Certified LR20812

Receptacle

<Standard type>



<Grooved type>



Type	Model No.	Finish	Color	Q'ty / box
Standard	JM-2BK-61	Nickel-undercoated, Mating part; gold-plated 0.1micron min.	Black	5,000
	JM-2BL-63	Nickel-undercoated, Mating part; gold-plated 0.4micron min.	Blue	
	JM-2R-64	Nickel-undercoated, Mating part; gold-plated 0.76micron min.	Red	
	JM-2W-96	Copper-undercoated, tin-plated (reflow treatment)	Natural	
Grooved	JM-T2W-61B	Nickel-undercoated, Mating part; gold-plated 0.1micron min.	White	

Material

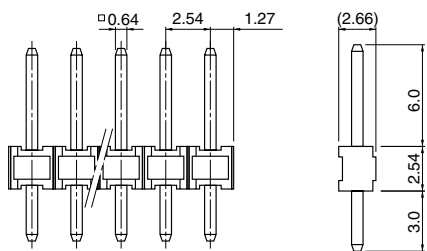
Contact: Phosphor bronze
Housing: PBT, UL94V-0

RoHS compliance

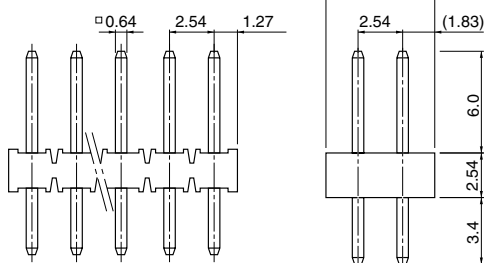
Note: Contact JST for special products.

Header

RE header



RF header



Gold-plated product

Model No.	Material		Finish
	Wafer	Post	
RE-H()2TD-1130	PBT, UL94V-0, black	Brass	Nickel-undercoated, gold-plated
RF-H()2TD-1130			

RoHS compliance

Tin-plated product

Model No.	Material		Finish
	Wafer	Post	
RE-H()2TD-1190	PBT, UL94V-0, black	Brass	Copper-undercoated, tin-plated (reflow treatment)
RF-H()2TD-1190			

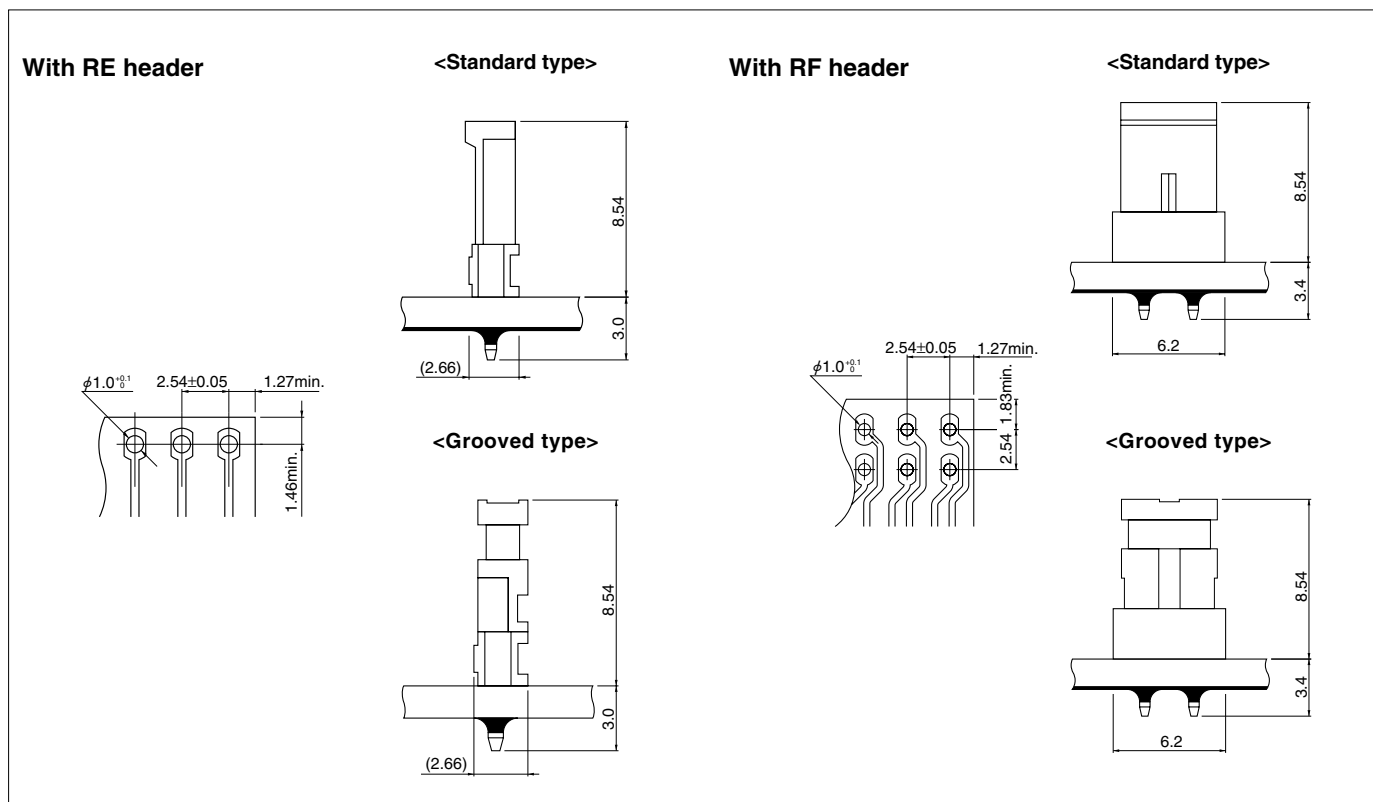
RoHS compliance This product displays (LF)(SN) on a label.

Note:

1. A two-digit number (RE header: 02 to 30 or RF header: 02 to 60 even numbers only) representing the number of circuits should be inserted in (*).
2. Special headers and side-entry type RE and RF headers are also available. For details, refer to pages RE series and RF series.

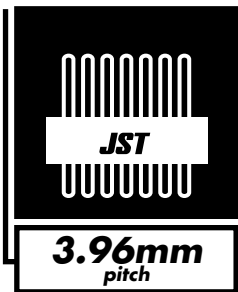
JM CONNECTOR

PC board layout (viewed from soldering side) and Assembly layout



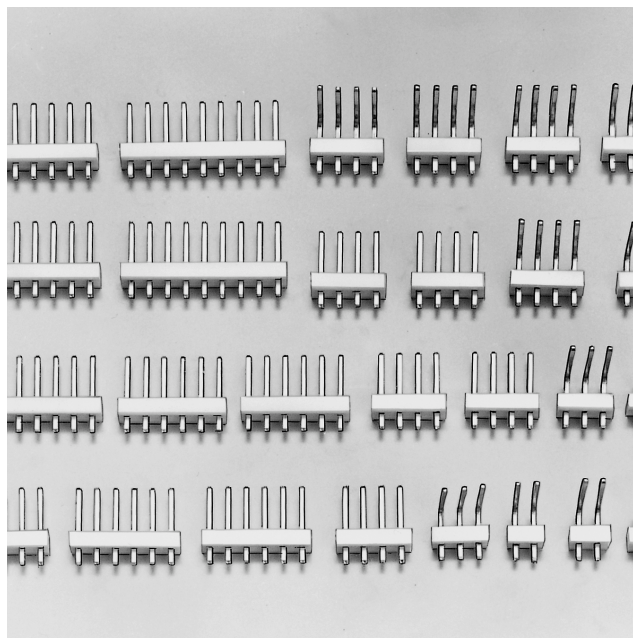
Note: 1. Tolerances are non-cumulative: $\pm 0.05 \text{ mm}$ for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

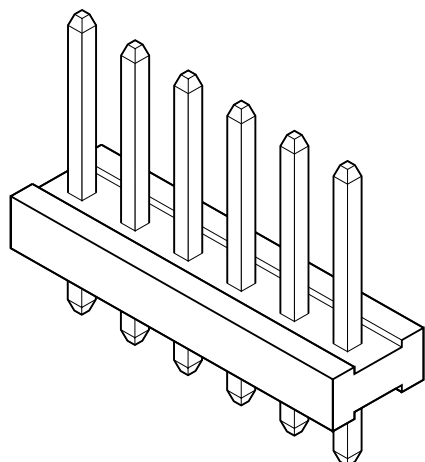


VS HEADER

Headers




This header can mate with a receptacle or as a connector for the direct interconnection of printed circuit boards.



Specifications

- Post: Brass, copper-undercoated, tin-plated (reflow treatment)
- Wafer: PA 66, UL94V-0 (natural)
- Pitch: 3.96mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

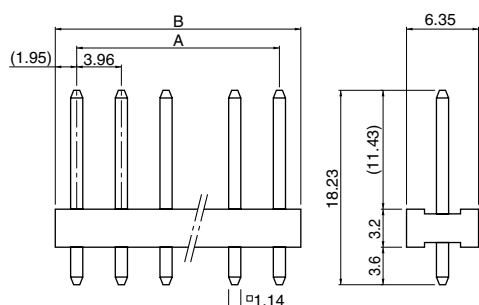
Standards

 Recognized E60389

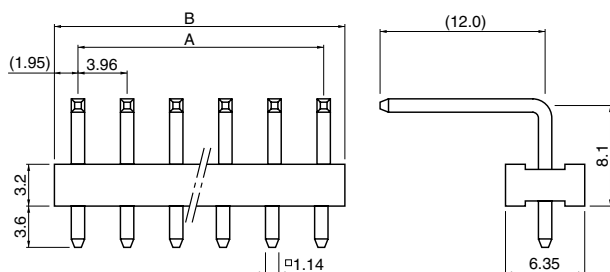
 Certified LR20812

Header

Top entry type



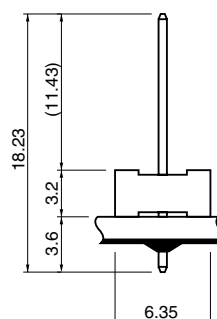
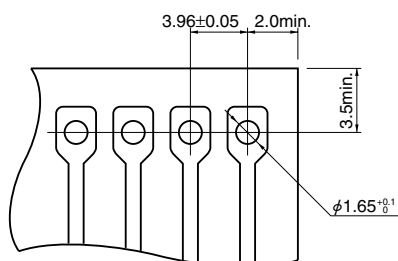
Side entry type



Cir- cuits	Model No.		Dimensions (mm)	
	Top entry type	Side entry type	A	B
2	B 2P-VS	B 2PS-VS	3.96	7.86
3	B 3P-VS	B 3PS-VS	7.92	11.82
4	B 4P-VS	B 4PS-VS	11.88	15.78
5	B 5P-VS	B 5PS-VS	15.84	19.74
6	B 6P-VS	B 6PS-VS	19.80	23.70
7	B 7P-VS	B 7PS-VS	23.76	27.66
8	B 8P-VS	B 8PS-VS	27.72	31.62
9	B 9P-VS	B 9PS-VS	31.68	35.58
10	B10P-VS	B10PS-VS	35.64	39.54
11	B11P-VS	B11PS-VS	39.60	43.50
12	B12P-VS	B12PS-VS	43.56	47.46
13	B13P-VS	B13PS-VS	47.52	51.42
14	B14P-VS	B14PS-VS	51.48	55.38
15	B15P-VS	B15PS-VS	55.44	59.34

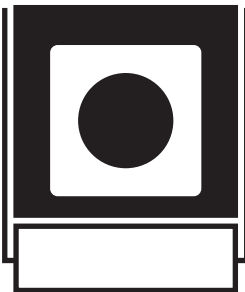
RoHS compliance This product displays (LF)(SN) on a label.

PC board layout (viewed from soldering side) and Assembly layout

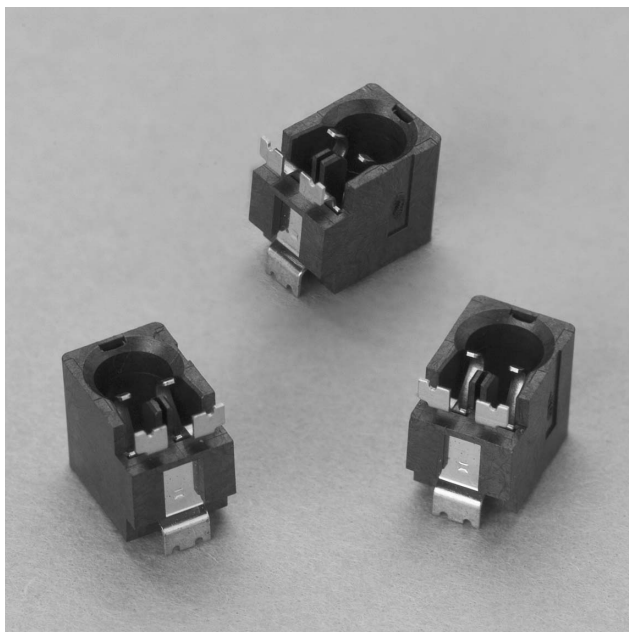


Note:

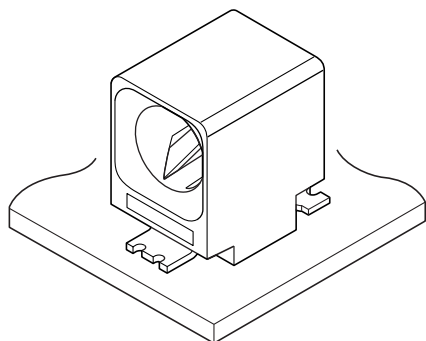
1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.



AN CONNECTOR



Two types of connector for antenna connection of mobile phones; one is for a diameter of 2.6.



Features

• **Durability**

Highly reliable structure guarantees up to 10,000 insertion and withdrawal operations.

• **Embossed tape for automatic mounting**

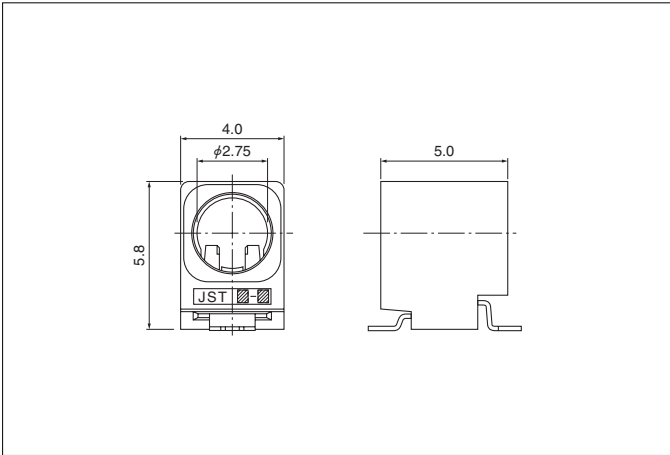
Supplied in embossed tape packaging for automatic surface mounting operation.

Specifications

- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -40°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/30m Ω max.
After environmental testing/50m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 500V AC/minute
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

AN CONNECTOR

Connector

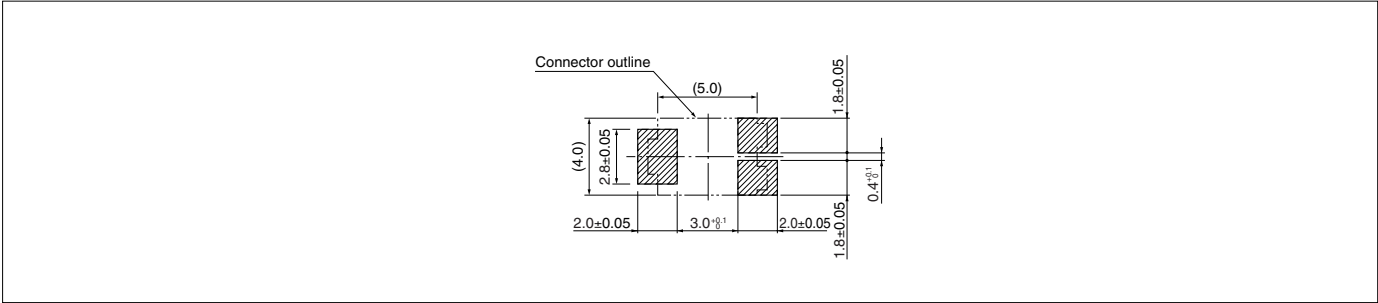


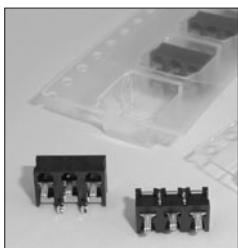
Model No.	Q'ty / reel
AN-A-2S-32-TF	1,000
Material and Finish	

Contact: Copper alloy, nickel-undercoated, gold-plated
Housing: LCP, UL94V-0, black
Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

PC board layout (viewed from component side)

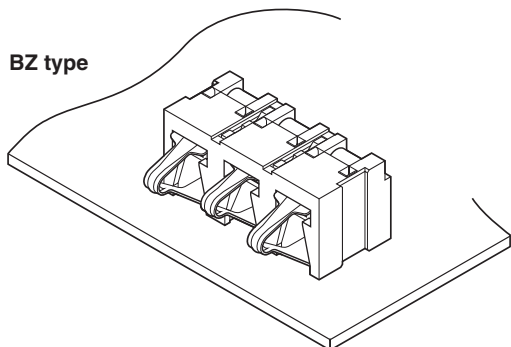




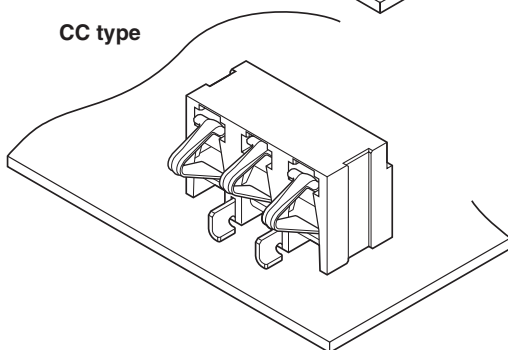
BTT CONNECTOR



BZ type

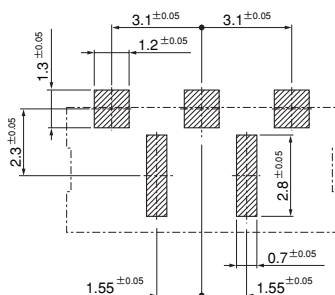


CC type

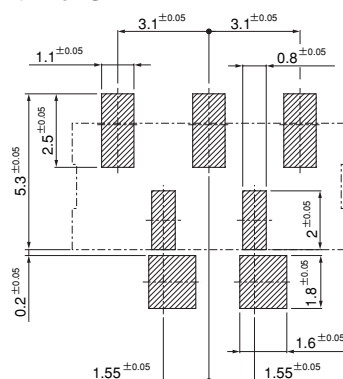


- Connector for 3-circuit battery
- Long stroke
- For halogen-free and beryllium-free

<BZ type>



<CC type>



Connector for batteries used in the compact mobile equipment such as mobile phones.
The battery can be set with Off set 0mm (only BZ type).
This is low profile type connector corresponding to thinner mobile phones.

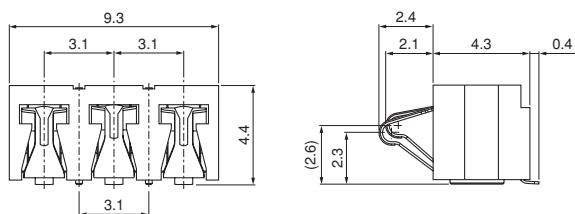
Specifications

- Current rating: 2 A AC, DC
- Voltage rating: 20 V AC, DC
- Temperature range: -30°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 40 mΩ max.
After environmental tests/ 80 mΩ max.
(variation from initial value)
- Insulation resistance: 1,000 MΩ min.
- Withstanding voltage: 500 VAC/minute

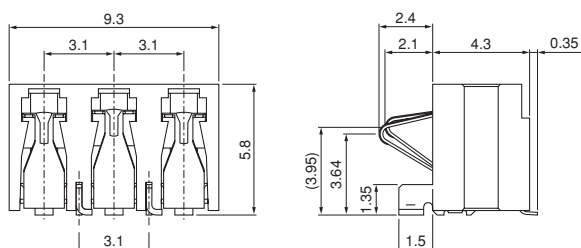
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
 * Contact JST for details.
 * Compliant with RoHS.

Connector

<BZ type>



<CC type>



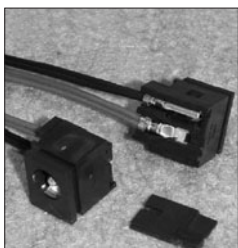
Type	Circuits	Model No.	Q'ty / reel
BZ type	3	BTT-BZ3S-00-TB(HF)	1,500
CC type		BTT-CC3S-00-TB(HF)	1,100

Material and Finish

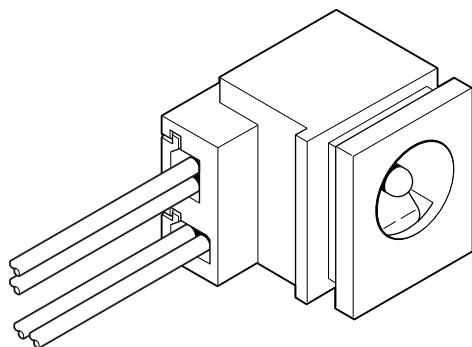
Contact: Copper alloy, nickel-undercoated, gold-plated
 Mating part: nickel-palladium gold-plated
 Solder tail: gold-plated
 Housing: Glass-filled LCP, UL94V-0, black
 Reinforcing tab: Copper alloy, copper-undercoated, pure tin-plated (reflow treatment)

RoHS compliance

Note: The products listed above are supplied on embossed-tape.



DCJ CONNECTOR



This is a jack connector for DC power supply used for handheld devices and notebook PC.

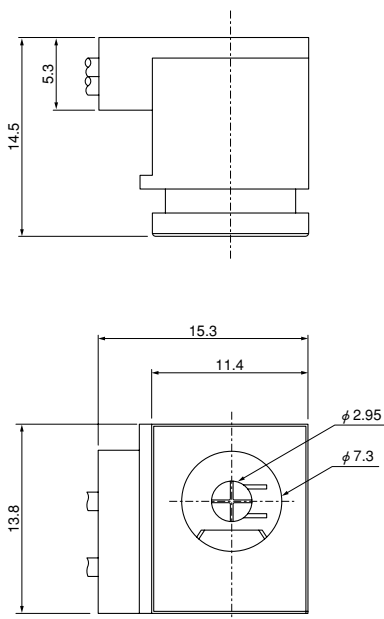
"Harness type with crimping" is adopted to prevent from defectives of conventional product such as "Solder crack" of PC board mounting types due to an excessive external force when mating and unmating operations, and "Poor soldering" of harness types with solder potting. High safety is realized.

- ***Good workability when assembling connector***
- ***Easy setting to an equipment panel***
- ***For large current***

Specifications

(Large current type)

- Current rating: 6A AC, DC
- Voltage rating: 20V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Applicable wire: AWG #22×2 wires
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

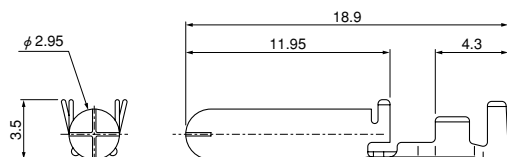


Note: The dimensions above should serve as a guideline. Contact JST for details.

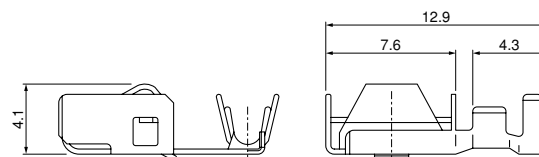
DCJ CONNECTOR

Contact

Pin contact



Socket contact



Model No.		Applicable wire		Insulation O.D. (mm)	Q'ty / reel	
Pin contact	Socket contact	mm ²	AWG #		Pin contact	Socket contact
SDCJ-21A-3.0	SDCJ-21A-E6.5	0.33	22	1.3	6,000	2,500

Material and Finish

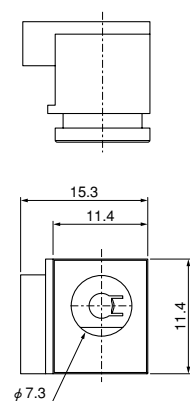
Copper alloy, Overall nickel-undercoated, silver-plated

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SDCJ-21A-3.0	AP-K2N	MKS-L	MK/SDCJ-21-30	APLMK SDCJ21-30
		—	—	—

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SDCJ-21A-E6.5	AP-K2N	MKS-L	MK/SDCJ-21-65	APLMK SDCJ21-65
		—	—	—

Housing

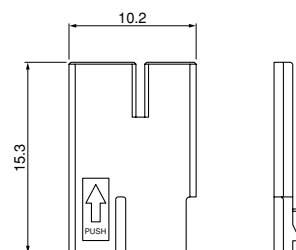


Model No.	Q'ty / box
DCJR-02V-A	150
Material	
Thermoplastic resin	

RoHS compliance

*Contact JST for applicable plug.

Holder

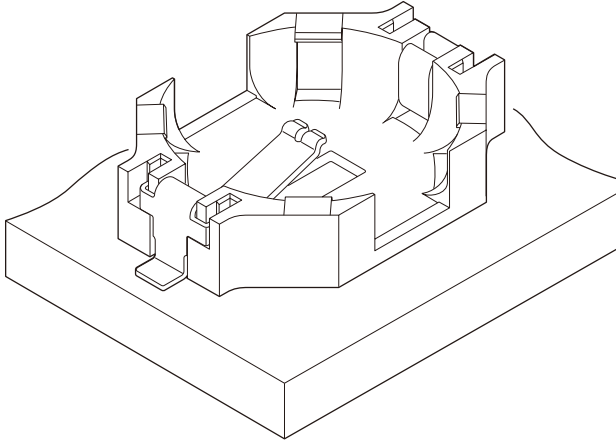


Model No.	Q'ty / box
DCJR-02V-B	1,000
Material	
Thermoplastic resin	

RoHS compliance



PB CONNECTOR



Connector for button batteries used in the compact mobile equipment such as mobile phones. Mounting cost will be reduced by using this connector in place of manual soldering. And, button batteries can be more easily disassembled after use for recycling's sake.

- Resistant to the shock
- Double contact point

Specifications

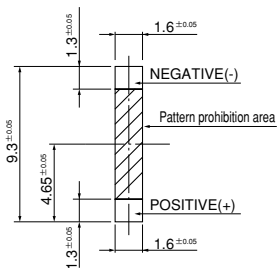
- Applicable batteries: 414 type battery (ϕ 4.8mm \times 1.4 height)
518 type battery (ϕ 5.8mm \times 1.8 height)
614 type battery (ϕ 6.8mm \times 1.4 height)
621 type battery (ϕ 6.8mm \times 2.1 height)
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/100m Ω max.
After environmental testing/120m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 500V AC/minute
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

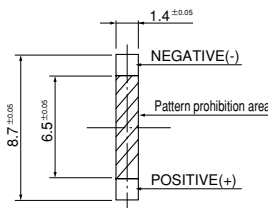
Recognized E60389

PC board layout (viewed from component side)

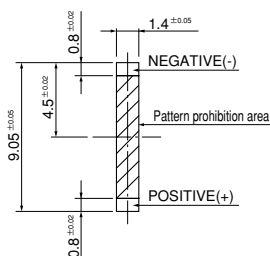
PB-414SR12K-TF



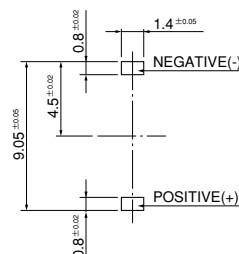
PB-414SS12-TF



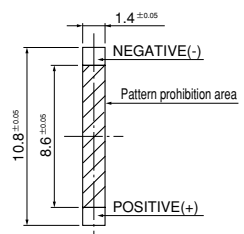
PB-518SR13-TF



PB-518SW13-TF

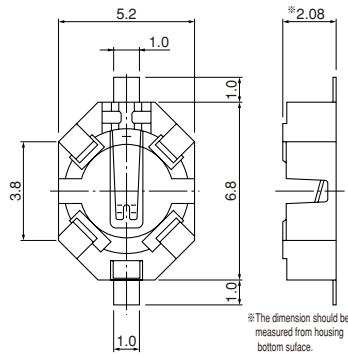


PB-614SS13-TF
PB-621SR13-TF

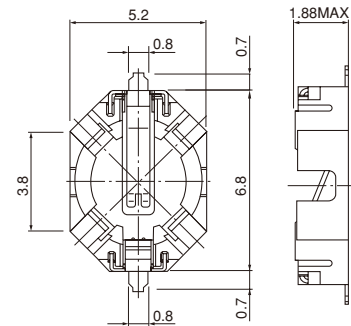


Connector

414 type

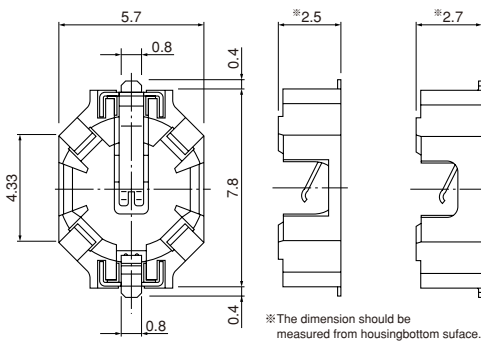


414 type/low profile

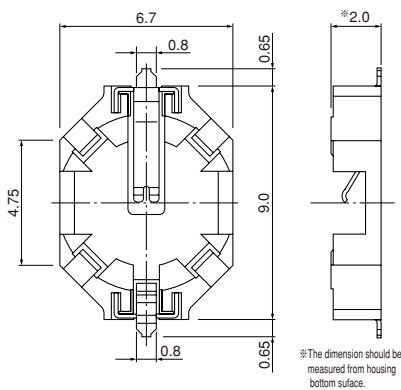


518 type

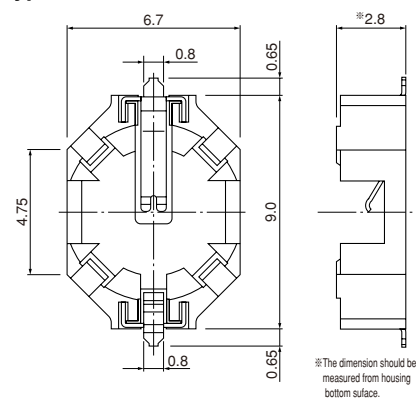
bottom overed



614 type



621 type

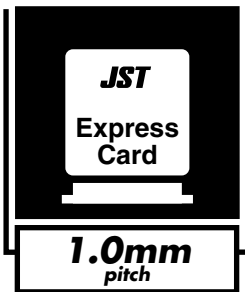


Type	Holder part	Model No.	Q'ty / reel
414	Resin hook	PB-414SR12K-TF	3,000
414/low profile type	Resin hook	PB-414SS12-TF	3,000
518	Resin hook	PB-518SR13-TF	2,000
518/bottom covered	Resin hook	PB-518SW13-TF	2,000
614	Resin hook	PB-614SS13-TF	2,000
621	Resin hook	PB-621SR13-TF	2,000

Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated
Housing: Glass-filled LCP, UL94V-0, natural (ivory), black (414 type)

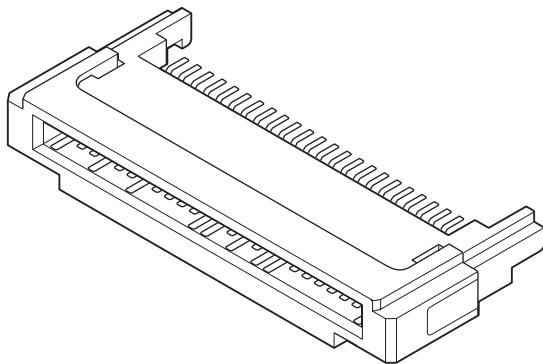
RoHS compliance



EXPRESS CARD CONNECTOR



This is the module connector for Express Card complying with Express Card Standard Ver.1.0.



Features

- ***Complying with PCMCIA Express Card Standard Ver.1.0***

This modular connector complies with PCMCIA Express Card Ver.1.0 which has been standardized as next generation of PC Card. It is registered as the Compliant Product in Web site of Express Card. Compliance ID: EC100017

- ***Excellent durability***

In order to protect the mating pins at CF card side, the shutter locking mechanism is adopted.

- ***Variation***

According to the customer's requirement, the off-set of connector solder tails is enabled.

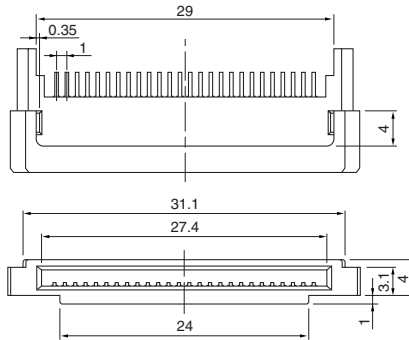
Specifications

- Current rating: 0.75A AC, DC/line
- Temperature range: 0°C to +55°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/40m Ω max.
After environmental testing/15m Ω max.
(variation from initial value)
- Withstanding voltage: 500V AC/minute
- Mating/unmating life: 10,000 cycles
- Insertion loss: -1.7dB min. (3.125GHz)/-5.5dB min. (6GHz)
- Return loss: -10dB max. (3.125GHz)/-5dB max. (6GHz)
- Cross talk: -32dB max. (3.125GHz)/-26dB max. (6GHz)
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

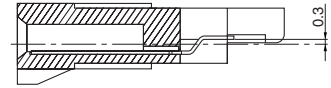
EXPRESS CARD CONNECTOR

Module Connector

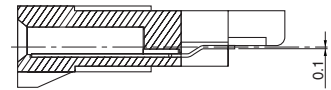
Upper mounting type



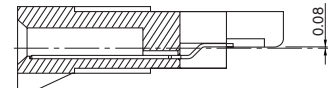
● Off-set 0.3mm / EX-M26S-152-A220



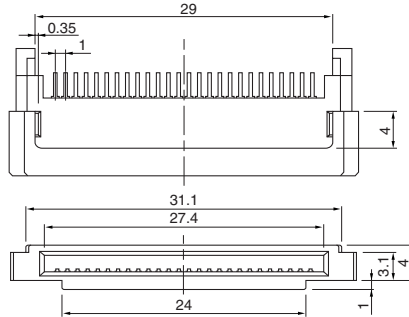
● Off-set 0.1mm / EX-M26S-152-A121 / EX-M26S-152-B121



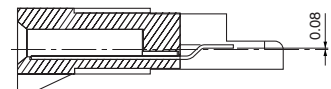
● Off-set 0.08mm / EX-M26S-152-A222



Bottom mounting type

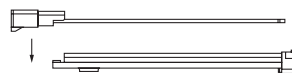


● Off-set 0.08mm / EX-M26S-152-C222

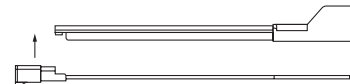


Frame mounting direction

● Upper mounting type



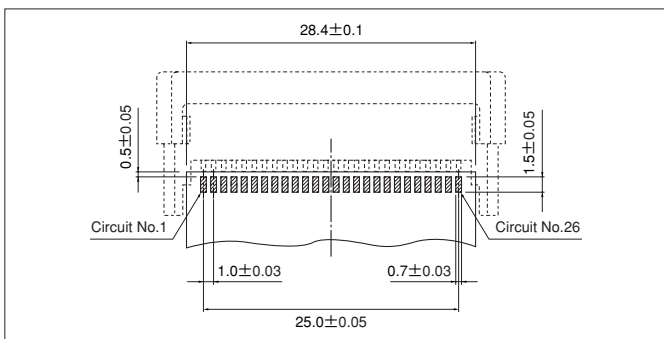
● Bottom mounting type



Circuits	Off-set size	Frame mounting type	Resin color	Model No.	Material and Finish	Q'ty/box
26	0.3	Upper side	Black	EX-M26S-152-A220	Contact: Copper alloy, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment) Housing: LCP, UL94V-0, black	3,510
	0.1	Upper side	Black	EX-M26S-152-A121		
			Gray	EX-M26S-152-B121		
	0.08	Upper side	Black	EX-M26S-152-A222		
		Bottom side	Black	EX-M26S-152-C222		

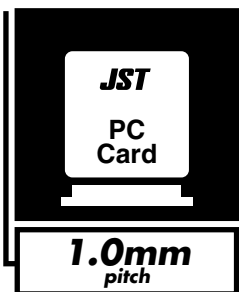
RoHS compliance This product displays (LF)(SN) on a label.

PC board layout (viewed from component side)



Note: 1. Tolerances are non-cumulative: $\pm 0.03\text{mm}$ for all centers.

2. The dimensions above should serve as a guideline. Contact JST for details.



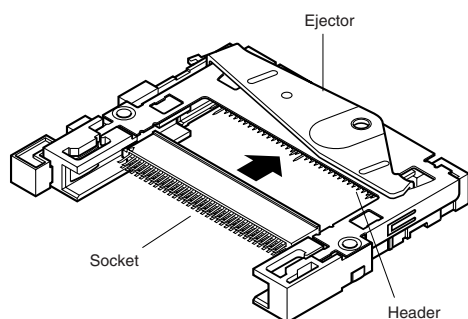
SMALL PC CARD CONNECTOR MB TYPE



68-circuit Small PC card connector



1.0mm pitch 68-circuit dual-row connector for small PC card, conforming to PCMCIA/JEIDA standard.



Features

• Socket

Socket is of straddle-type, designed to accommodate PC board between the two solder tail rows.

• Header

Header is with stand-off 0mm, available in both normal and reverse types.

• Ejector

Ejector is, with the left button, to be assembled (with screws) after header is mounted. The frame has the contact point for the grounding clip on the small PC card.

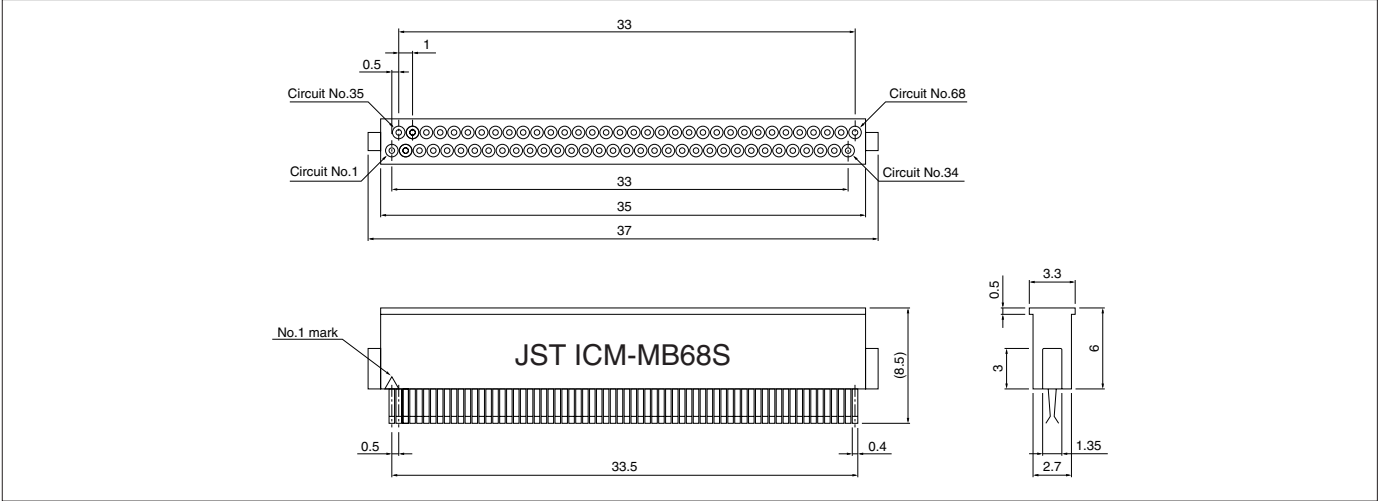
<Card frame (for types I & II cards)>

Specifications

- Current rating: 0.5A AC, DC/line
- Temperature range: -40°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/40m Ω max.
After environmental testing/max.
20m Ω variation from initial value.
- Withstanding voltage: 500V AC/minute
- Insulation resistance: 1,000M Ω min.(initial)
- Mating/unmating life: 10,000 cycles
- Circuits: 68-circuits
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

SMALL PC CARD CONNECTOR MB TYPE

Socket

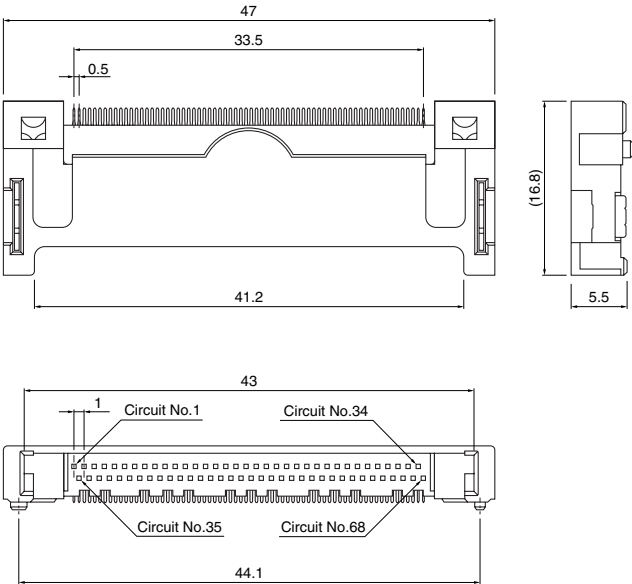


Circuits	Model No.	Q'ty / box	Material and Finish
68	ICM-MB68S-TS13-5000A	600	Contact: Beryllium copper, Mating part: gold-plated Solder tail: tin-plated (reflow treatment) Housing: PA6T, UL94V-0

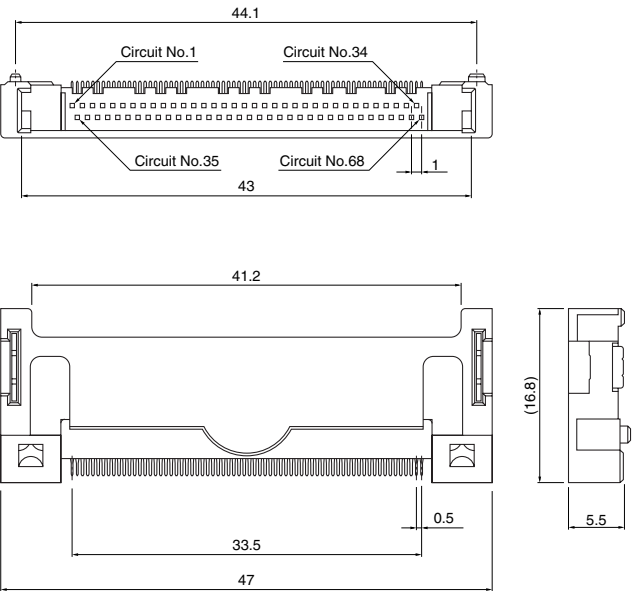
RoHS compliance This product displays (LF)(SN) on a label.

Header

Normal type (Stand off 0mm)



Reverse type (Stand off 0mm)



Circuits	Type	Model No.	Q'ty / box	Material and Finish
68	Normal	ICM-MB68H-S153-400N	168	Contact: Phosphor bronze, nickel-undercoated, Mating part: gold-plated Solder tail: tin-plated (reflow treatment) Housing: Glass-filled PPS, UL94V-0, Normal...black Reverse...brown Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)
	Reverse	ICM-MB68H-S153-400R		

RoHS compliance This product displays (LF)(SN) on a label.

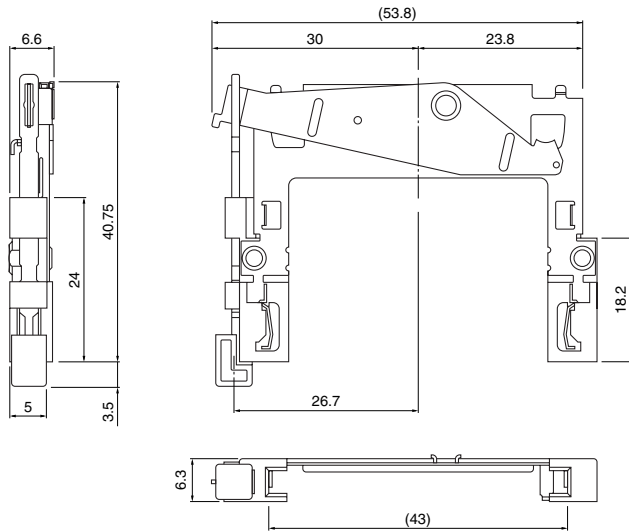
Dimension L

Circuit No.	Dimensions (mm)
1, 17, 34, 35, 51, 68	5.0 ±0.1
2 to 16, 18 to 33, 37 to 50, 52 to 66	4.25 ±0.1
36, 37	3.5 ±0.1

SMALL PC CARD CONNECTOR MB TYPE

Ejector

Left Button

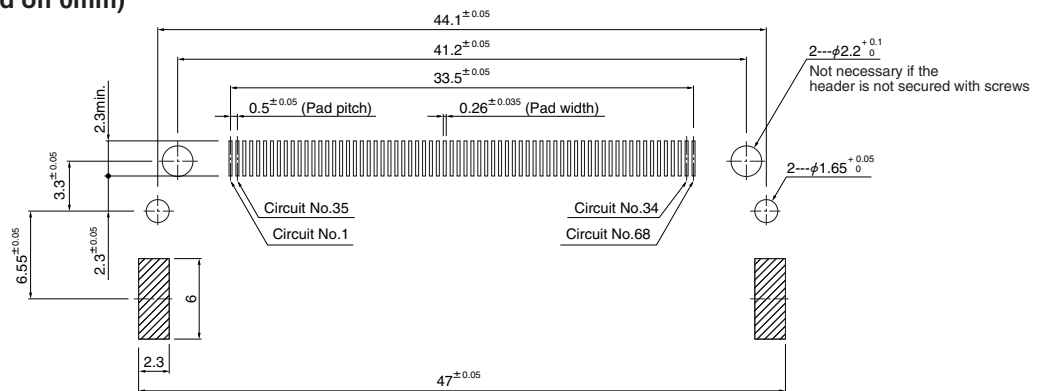


Circuits	Model No.	Q'ty / box	Material
Left button	ICM-MBE-L-300HA	70	Frame, Rotating arm, Push bar: Stainless Guide bar, Push button: Glass filled PBT, UL94V-0 Eyelet with nut: Brass, nickel-plated.

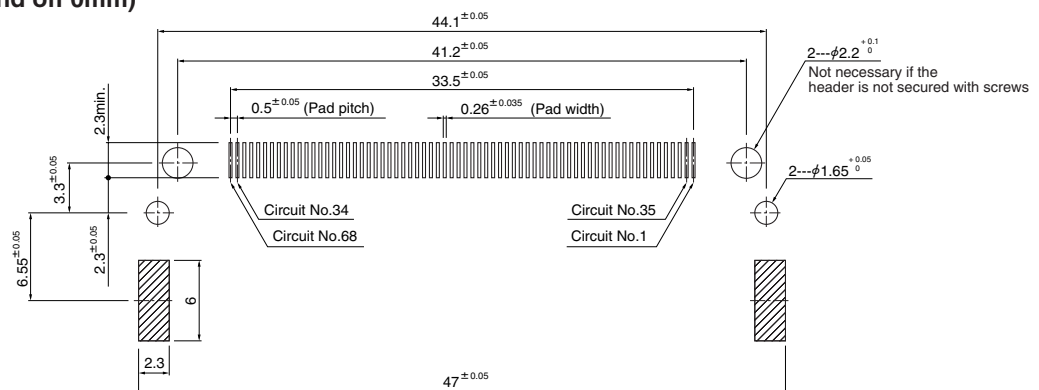
RoHS compliance

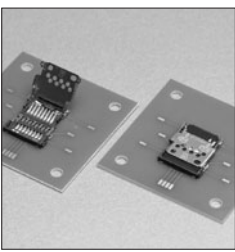
PC board layout (viewed from component side)

Normal type (Stand off 0mm)



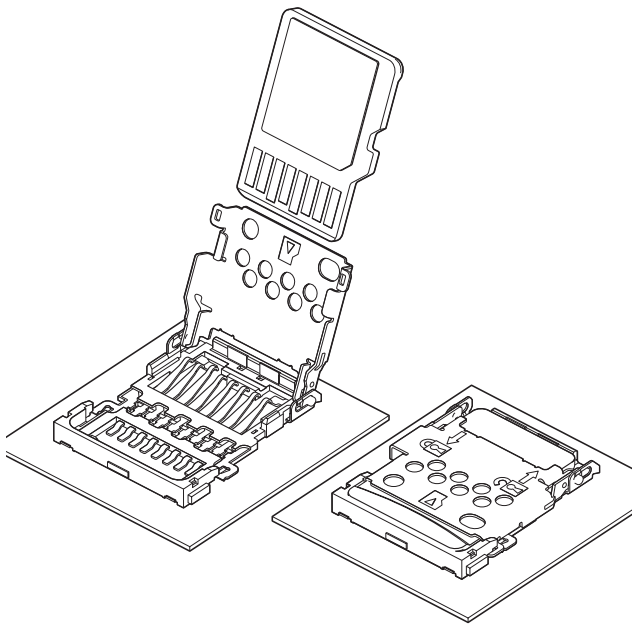
Reverse type (Stand off 0mm)





SDHK CONNECTOR

1.1mm pitch/ Micro SD card Flip cover type



This is micro SD card connector of flip cover type that can approach from above the PC board surface.

Specifications

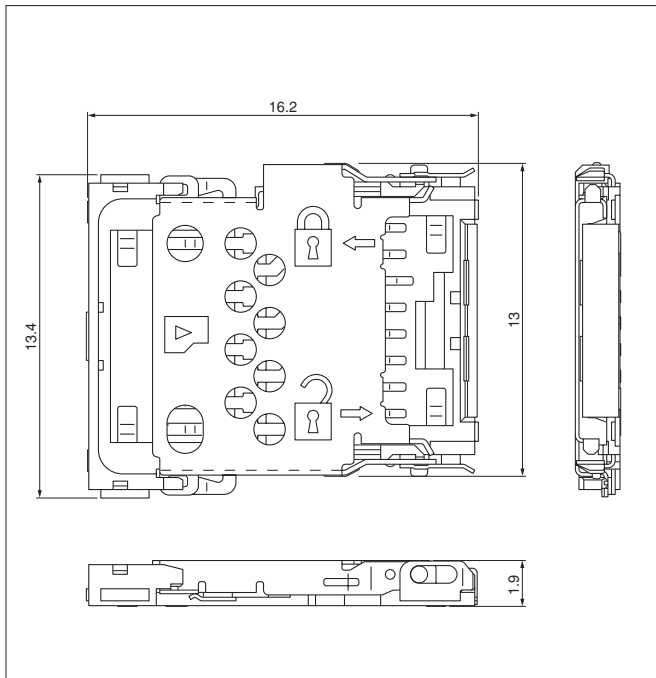
- Current rating: 0.5 A AC, DC
- Voltage rating: 15 V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 80 mΩ max.
After environmental tests/ 160 mΩ max.
(variation from initial value)
- Insulation resistance: 100 MΩ min.
- Withstanding voltage: 500 VAC/minute
- Applicable card: Micro SD card

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

* Compliant with RoHS.

Connector



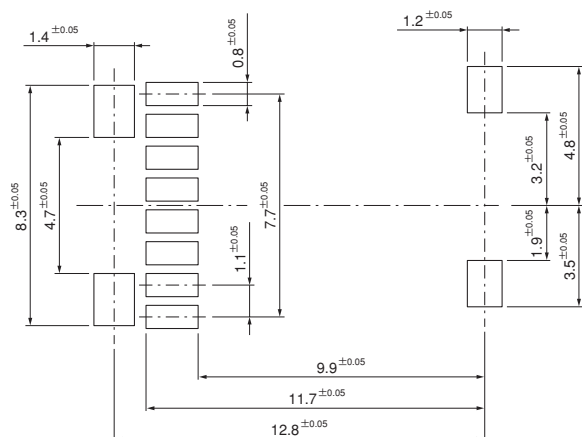
Model No.	Q'ty / reel
SDHK-8BNS-K-303-TB(HF)	1,400

Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated
Housing: Heat resisting resin, black
Cover: Stainless

RoHS compliance This product displays (HF) on a label.
The product listed above are supplied on embossed-tape.

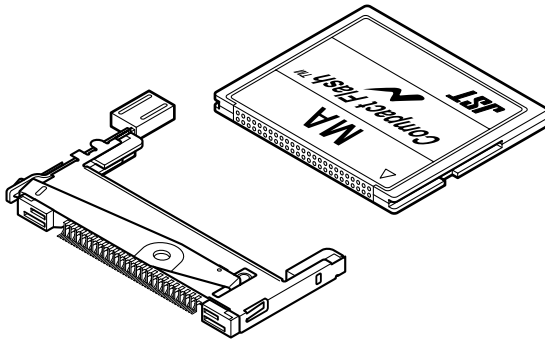
PC board layout





CF CARD CONNECTOR MA Type

1.27mm pitch/50-circuit CF card connector



In addition to the connectors applicable to CF type I cards, those for CF type II cards are also available.

- **Socket / SMT type**
- **Card frame / for type I cards**
- **Adapter / for type I, II cards**
- **Header / for type I, II cards**
- **Ejector / for type I, II cards**

Specifications

- Type: Dual-row at mating section
- Current rating: 0.5 A AC, DC/line
- Temperature range: -20°C to +60°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 40 mΩ max.
After environmental tests/ 20 mΩ max.
(variation from initial value)
- Insulation resistance: 1,000 MΩ min. 500V DC (Except for Adapter cards)
- Withstanding voltage: 500 VAC/minute (Except for Adapter cards)
- Mating/unmating life: 10,000 cycles
- Conforms to CFA.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

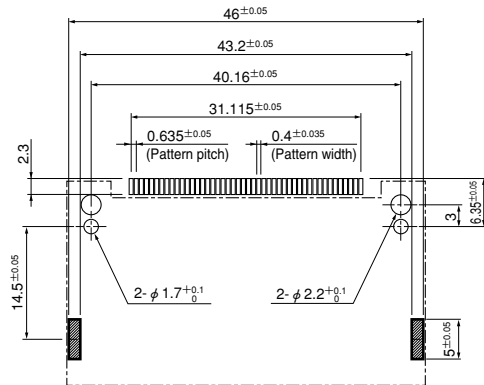
* Contact JST for details.

* Compliant with RoHS.

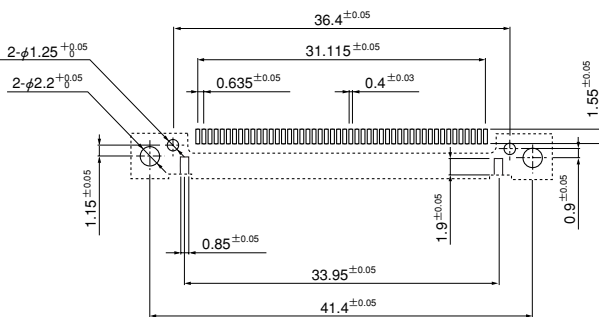
CF CARD CONNECTOR MA Type

PC board layout (viewed from component side)

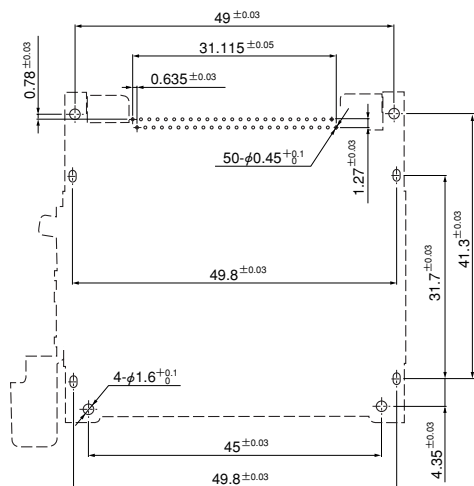
For Type I cards/Standoff 1.64mm
Normal type/Reverse type



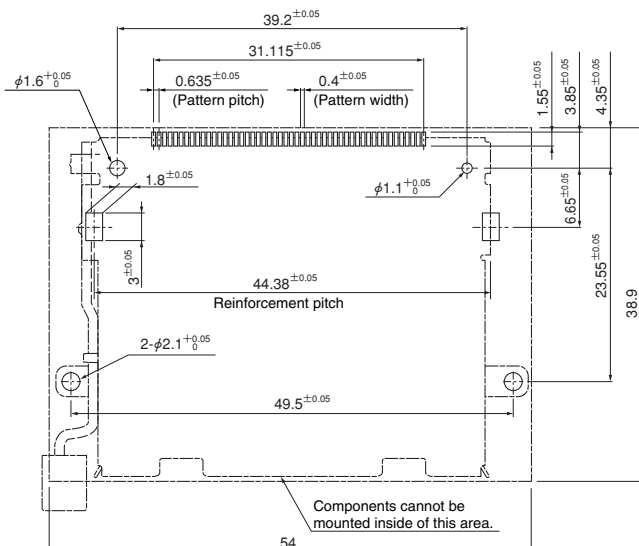
Space-saving type For Type I cards/Standoff 0mm
Normal type/Reverse type



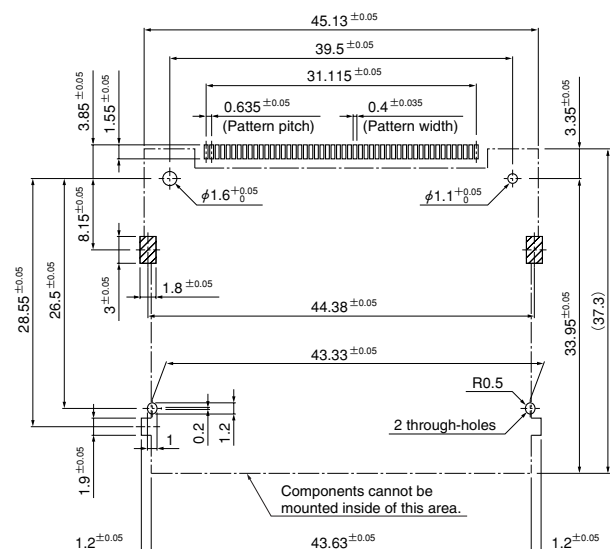
Ejector mounted header with shutter For Type II cards
Reverse type (Standoff 0mm)



Space-saving type For Type II cards/Standoff 0mm
Normal type



Reverse type

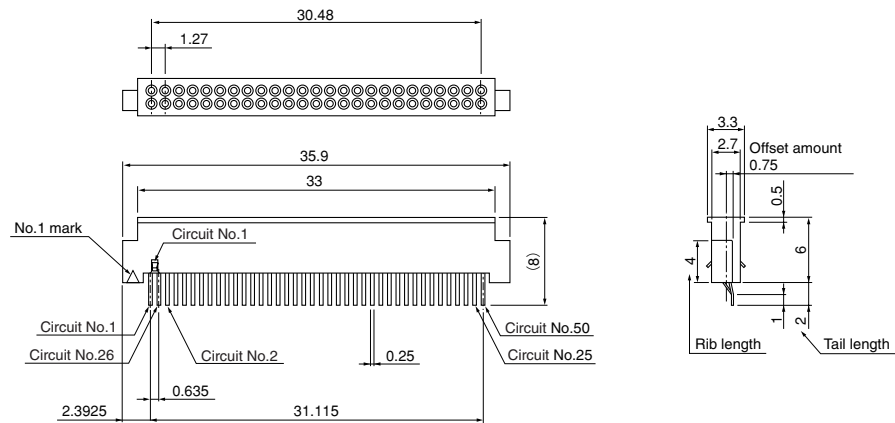


CF CARD CONNECTOR MA Type

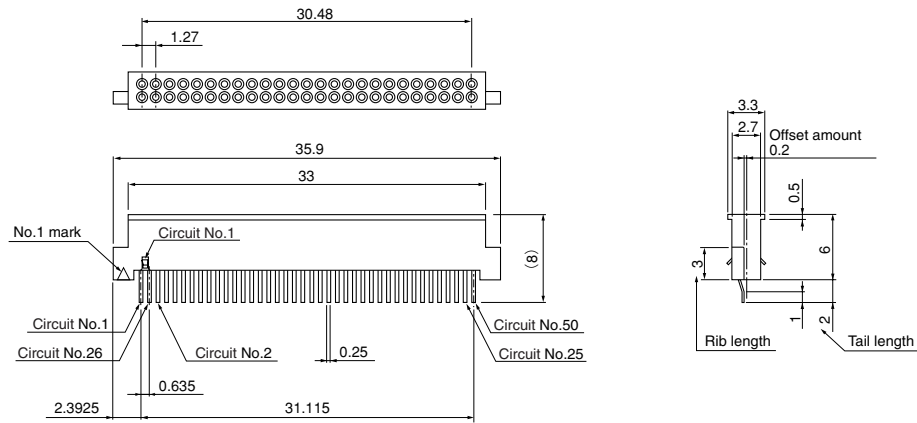
Socket

SMT type

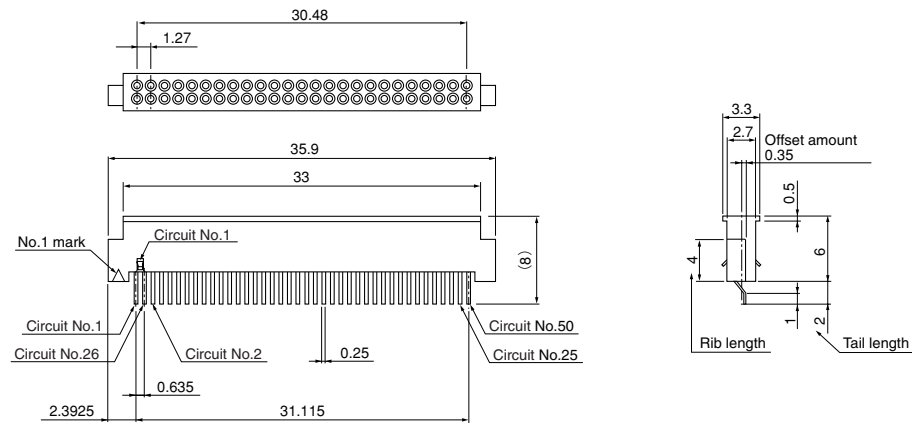
ICM-MA50S-TS12-3022



ICM-MA50S-TS12-3023



ICM-MA50S-TS12-3024

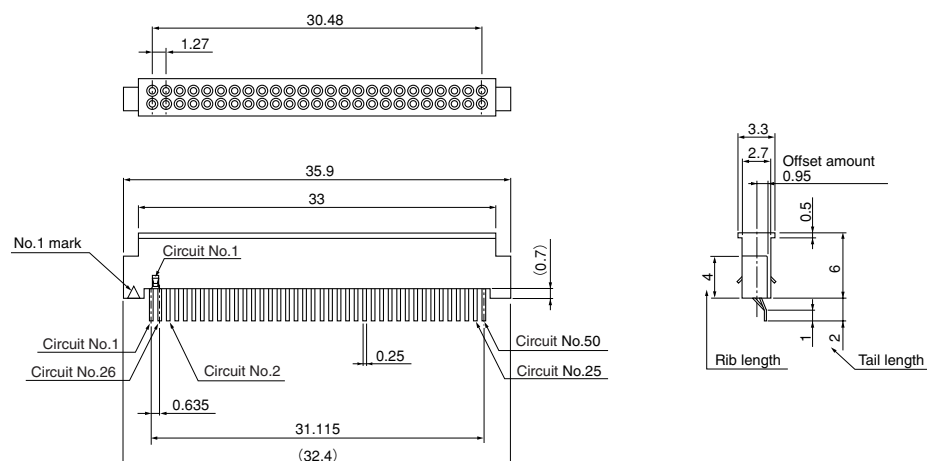


CF CARD CONNECTOR MA Type

Socket

SMT type

ICM-MA50S-TS12-3026

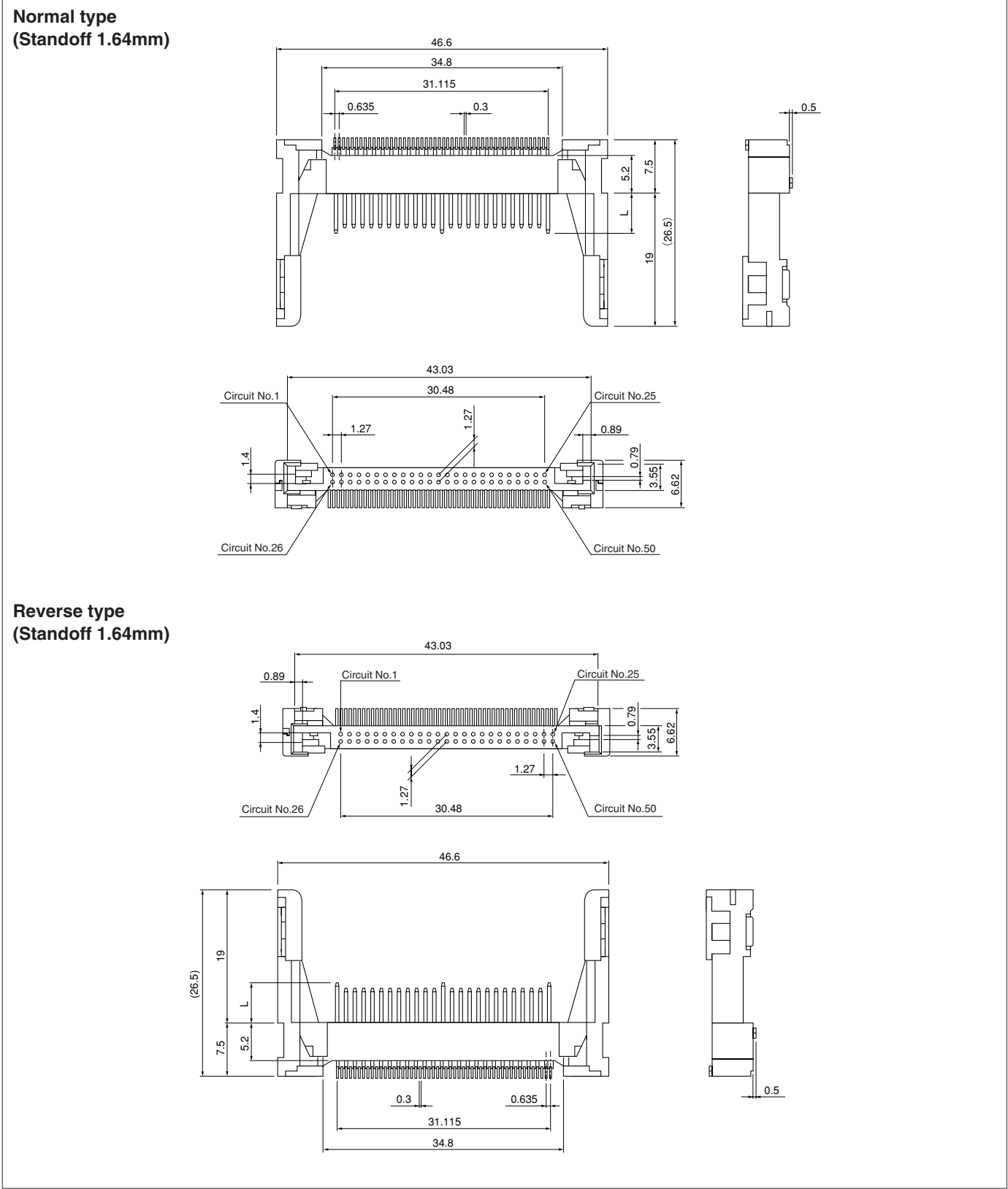


Circuits	Solder tail	GND spring	Offset dimensions(mm)	Rib length (mm)	Tail length (mm)	Model No.	Q'ty / reel	Material and Finish
50	SMT type	With (Circuit No.1, No.26)	0.75	4.0	2.0	ICM-MA50S-TS12-3022T	1,500	Contact: Copper alloy, nickel-undercoated, Mating part; gold-plated
			0.2	3.0		ICM-MA50S-TS12-3023T		Solder tail; tin-plated (reflow treatment)
			0.35	4.0		ICM-MA50S-TS12-3024T		Grounding spring: Copper alloy, nickel-undercoated, gold-plated
			0.95	4.0		ICM-MA50S-TS12-3026T		Housing: LCP, UL94V-0, black

RoHS compliance This product displays (LF)(SN) on a label.

CF CARD CONNECTOR MA Type

Header (for Type I cards)



Circuits	Type	Model No.	Q'ty / box	Material and Finish
50	Normal	ICM-MA50H-SS52-1141	140	Contact: Phosphor bronze, nickel-undercoated, Mating part: gold-plated Solder tail; tin-plated (reflow treatment)
	Reverse	ICM-MA50H-SS52-1161		Housing: PPS, UL94V-0 Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

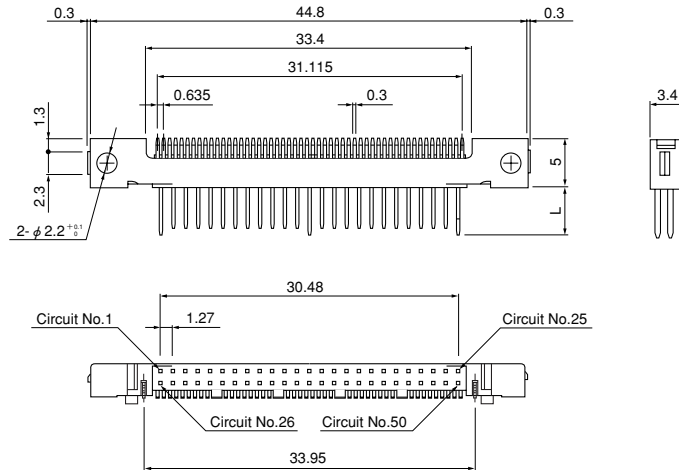
RoHS compliance This product displays (LF)(SN) on a label.

Dimension L	
Circuit No.	Dimensions (mm)
1, 13, 38, 50	5.0 ±0.1
2 to 12, 14 to 24, 27 to 37, 39 to 49	4.25 ±0.1
25, 26	3.5 ±0.1

CF CARD CONNECTOR MA Type

Header (for Type I cards) / Space-saving type

Normal , Reverse types (Standoff 0mm)



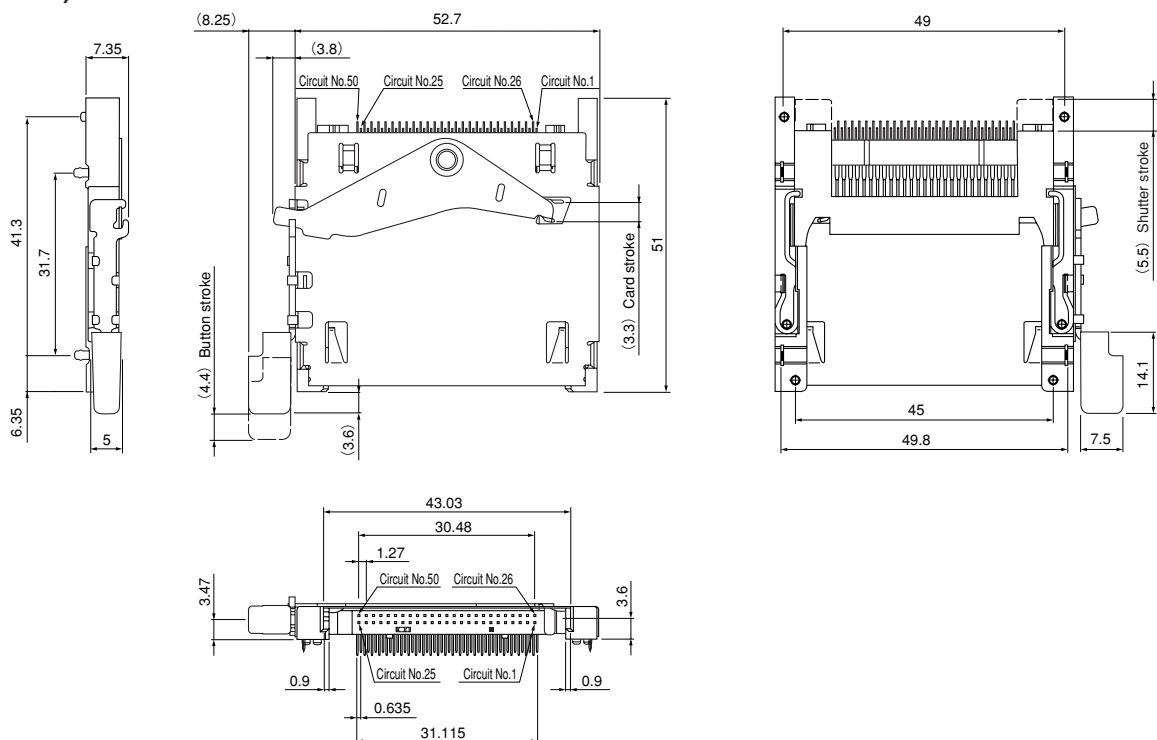
Circuits	Type	Model No.	Q'ty / box	Material and Finish
50	Normal	ICM-MA50H-SS52-1184	1,850	Contact: Copper alloy, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment)
	Reverse			Housing: PPS, UL94V-0, black Solder tab: Copper alloy, nickel-undercoated, tin-plated (reflow treatment)

Dimension L	
Circuit No.	Dimensions (mm)
1, 13, 38, 50	5.0 ±0.1
2 to 12, 14 to 24, 27 to 37, 39 to 49	4.25 ±0.1
25, 26	3.5 ±0.1

RoHS compliance This product displays (LF)(SN) on a label.

Ejector mounted header with shutter (for Type II cards)

Reverse type (Standoff 0mm)



Circuits	Type	Model No.	Q'ty / box	Material and Finish
50	Reverse	ICM-MA2SL-SD12-RL31	128	Contact: Copper alloy, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment)
				Housing/ Guide bar/ Push button: PPS, UL94V-0, black Lock/ Rotation arm/ Push bar: Stainless Frame: Stainless, selective nickel-undercoated, tin/copper alloy-plated

RoHS compliance This product displays (LF)(SN) on a label.

CF CARD CONNECTOR MA Type

Header (for Type II cards) / Space-saving type

Normal type
(Standoff 0mm)

Reverse type
(Standoff 0mm)

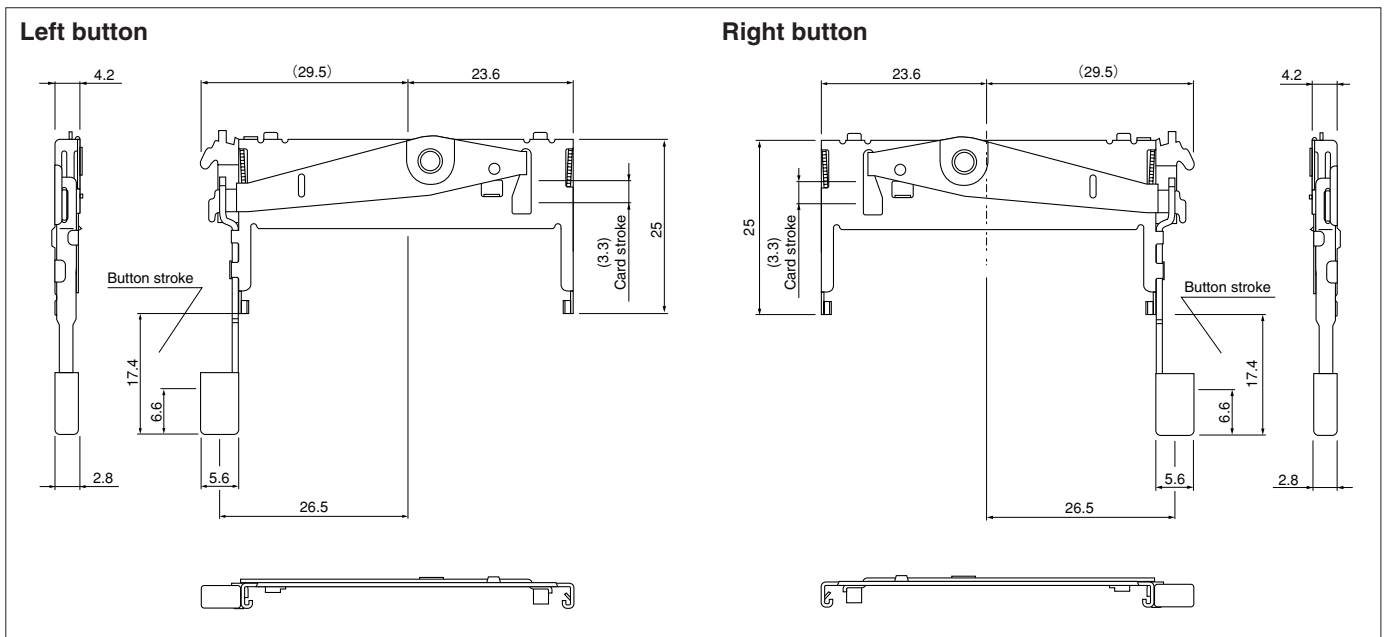
Circuits	Type	Model No.	Q'ty / rell	Material and Finish
50	Normal	ICM-MA2H-SS52-N13LT	750	Contact: Phosphor bronze, nickel-undercoated, Mating part: gold-plated Solder tail; tin-plated (reflow treatment)
	Reverse	ICM-MA2H-SS52-R13HT		Housing: PPS, UL94V-0 Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.
The products listed above are supplied on embossed-tape.

Dimension L	
Circuit No.	Dimensions (mm)
1, 13, 38, 50	5.0 ±0.1
2 to 12, 14 to 24, 27 to 37, 39 to 49	4.25 ±0.1
25, 26	3.5 ±0.1

CF CARD CONNECTOR MA Type

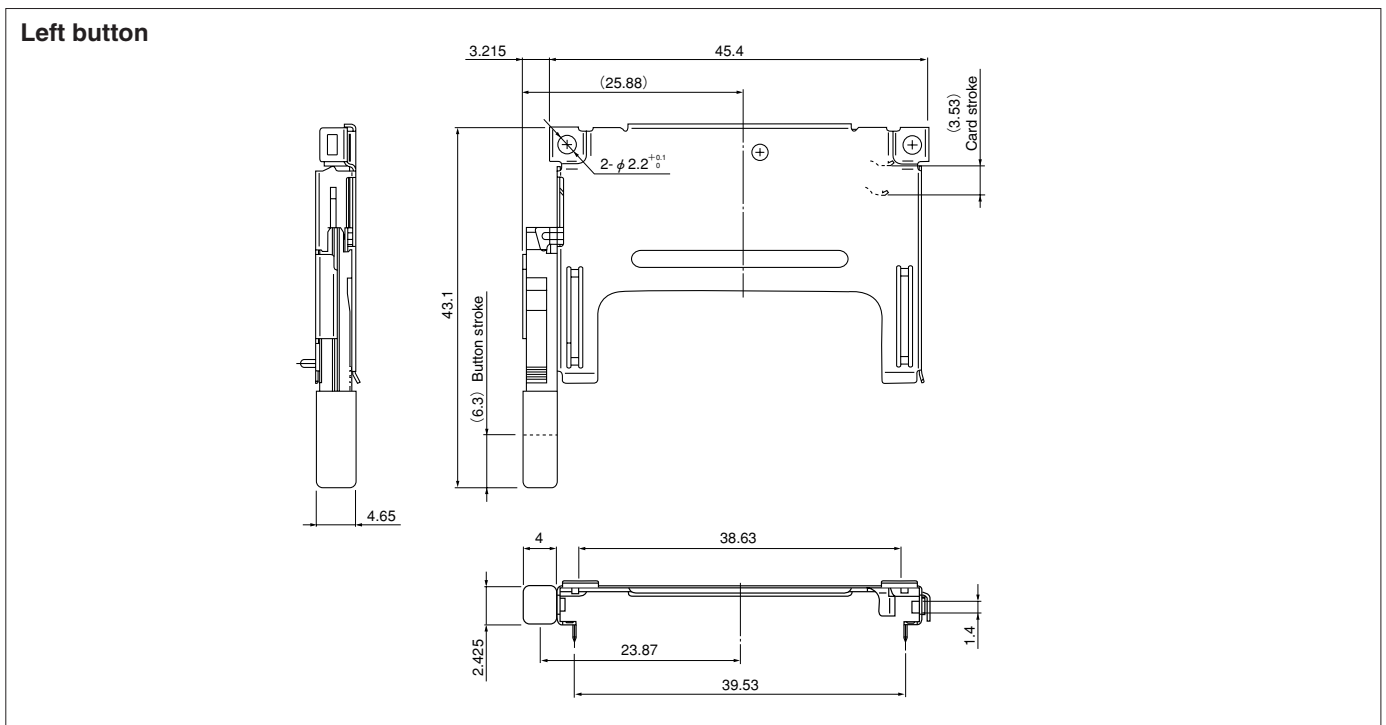
Ejector (for Type I Header)



Type	Model No.	Q'ty / box	Material	Applicable header
Right button	ICM-MAE-R01	100	Frame/ Rotation arm : Stainless Push button: PPS, UL94V-0, black	ICM-MA50H-SS52-1141
Left button	ICM-MAE-L01	100		ICM-MA50H-SS52-1161

RoHS compliance Applicable headers display (LF)(SN) on a label.

Ejector mounted header (for Type I Header) / Space-saving type



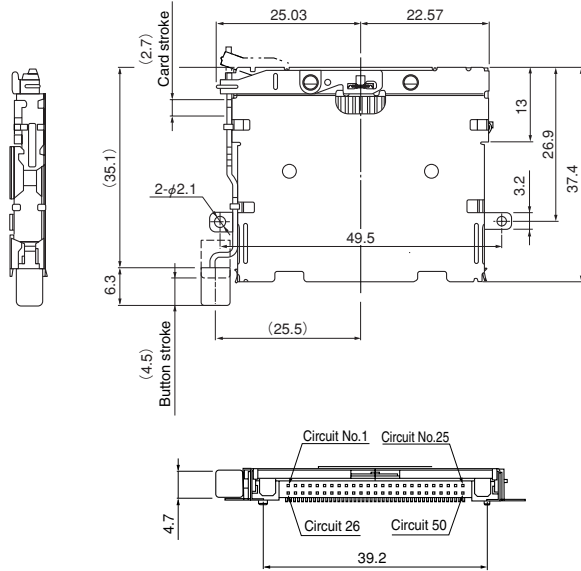
Type	Model No.	Q'ty / box	Material and Finish	Applicable header
Reverse (Left button)	ICM-MAE-L91ND	252	Frame: Stainless, nickel-undercoated, tin/copper alloy-plated Rotation arm: Stainless Push button: Synthetic resin, UL94V-0, gray	ICM-MA50H-SS52-1184

RoHS compliance This product displays (LF) on a label.
An applicable header displays (LF)(SN) on a label.

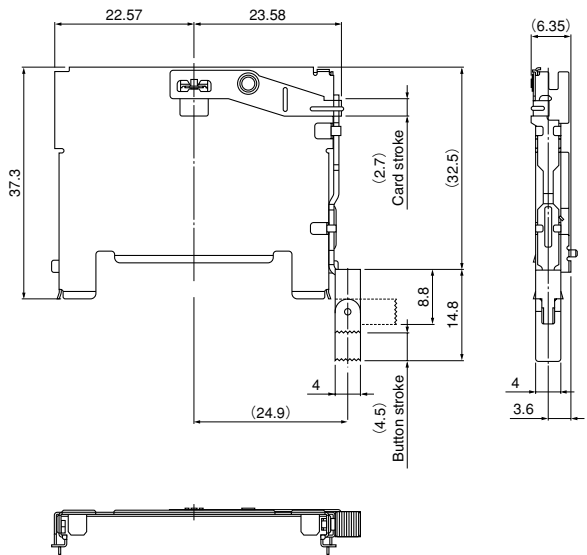
CF CARD CONNECTOR MA Type

Ejector (for Type II header) / Space-saving type

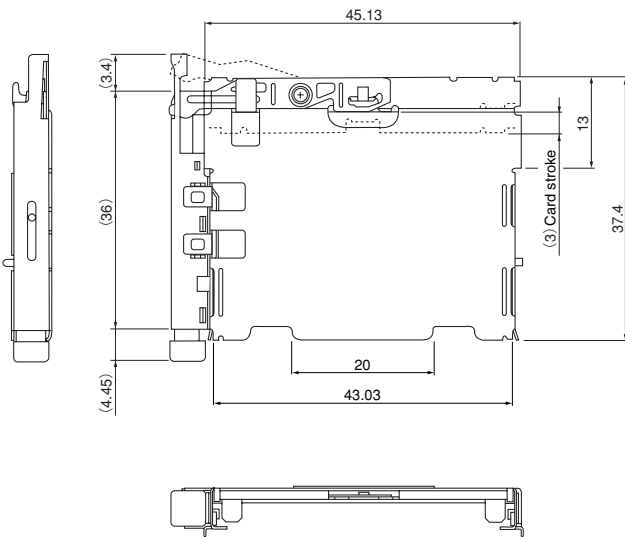
For Normal type header
(Standoff 0mm) Left button



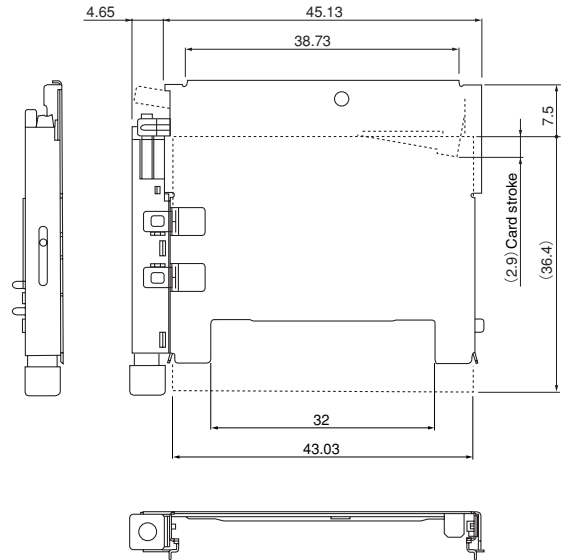
For Reverse type header
(Standoff 0mm) Right button



For Normal type header
(Standoff 0mm) Left button/Push-push type



For Reverse type header
(Standoff 0mm) Left button/Push-push type



Type	Model No.	Q'ty / box	Material and Finish	Applicable header
For Normal type header (Standoff 0mm) Left button	ICM-MAE-L73FA	36	Rotation arm/Push bar/Push plate/ Frame: Stainless Button: PBT, UL94V-0, gray	ICM-MA2H-SS52-N13L ICM-MA2H-SS52-N13LT
For Normal type header (Standoff 0mm) Left button, Push-push	ICM-MA2EP-L520A	36	Rotation arm/Push plate: Stainless Button: PBT, UL94V-0, black Frame: Stainless, selective nickel-undercoated, tin/copper alloy-plated	
For Reverse type header (Standoff 0mm) Right button	ICM-MAE-R66C3	36	Rotation arm/Push bar/Push plate/ Frame: Stainless Clinched button: Synthetic resin, black Frame: Stainless, selective nickel-undercoated, tin/copper alloy-plated	ICM-MA2H-SS52-R13HT
For Reverse type header (Standoff 0mm) Left button, Push-push	ICM-MA2EP-L810E	36	Arm: Stainless Push button: Synthetic resin, UL94V-0, black Frame: Stainless, selective nickel-undercoated, tin/copper alloy-plated	

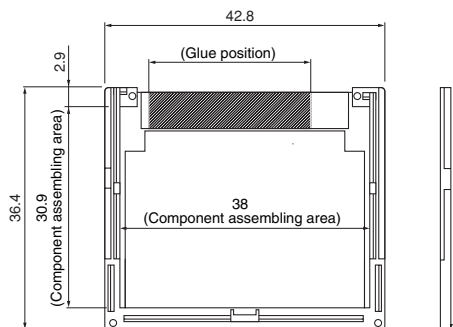
RoHS compliance ICM-MAE-R66C3 display (LF) on a label.
ICM-MA2EP-L520A/ICM-MA2EP-L810E display (LF) on a label.
Applicable headers display (LF)(SN) on a label.

CF CARD CONNECTOR MA Type

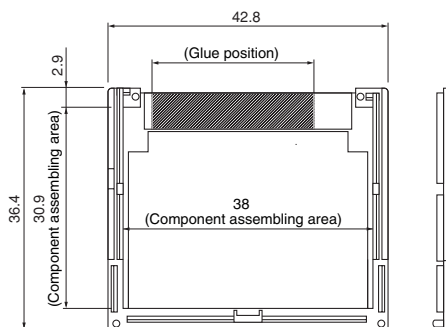
Card frame (for Type I cards)

ICM-MA50F-A/B-FB-C

Frame A



Frame B



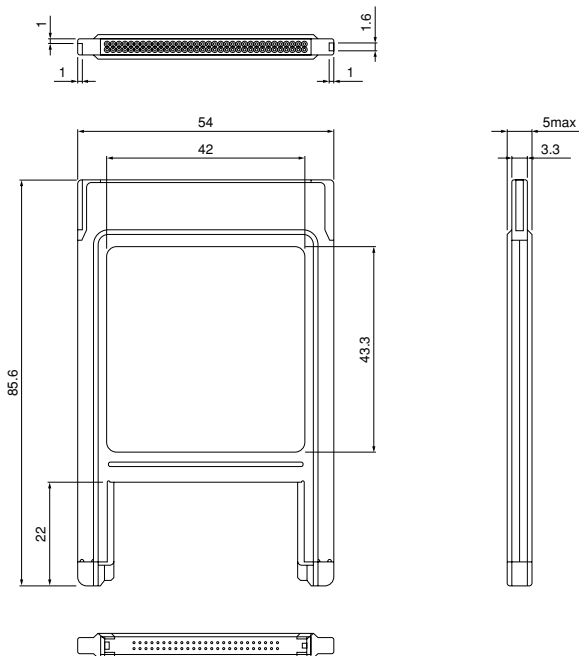
Circuits	Model No. as a set (Frame A + Frame B)	Applicable socket	Q'ty / box	Material
50	ICM-MA50F-A/B-FB-CA	ICM-MA50S-TS12-3023T	150	Frame: Glass-filled PBT, UL94V-0 Cover: Stainless

RoHS compliance

Adapter card

For CF Type I cards (PC card 5V key)

68-circuits side



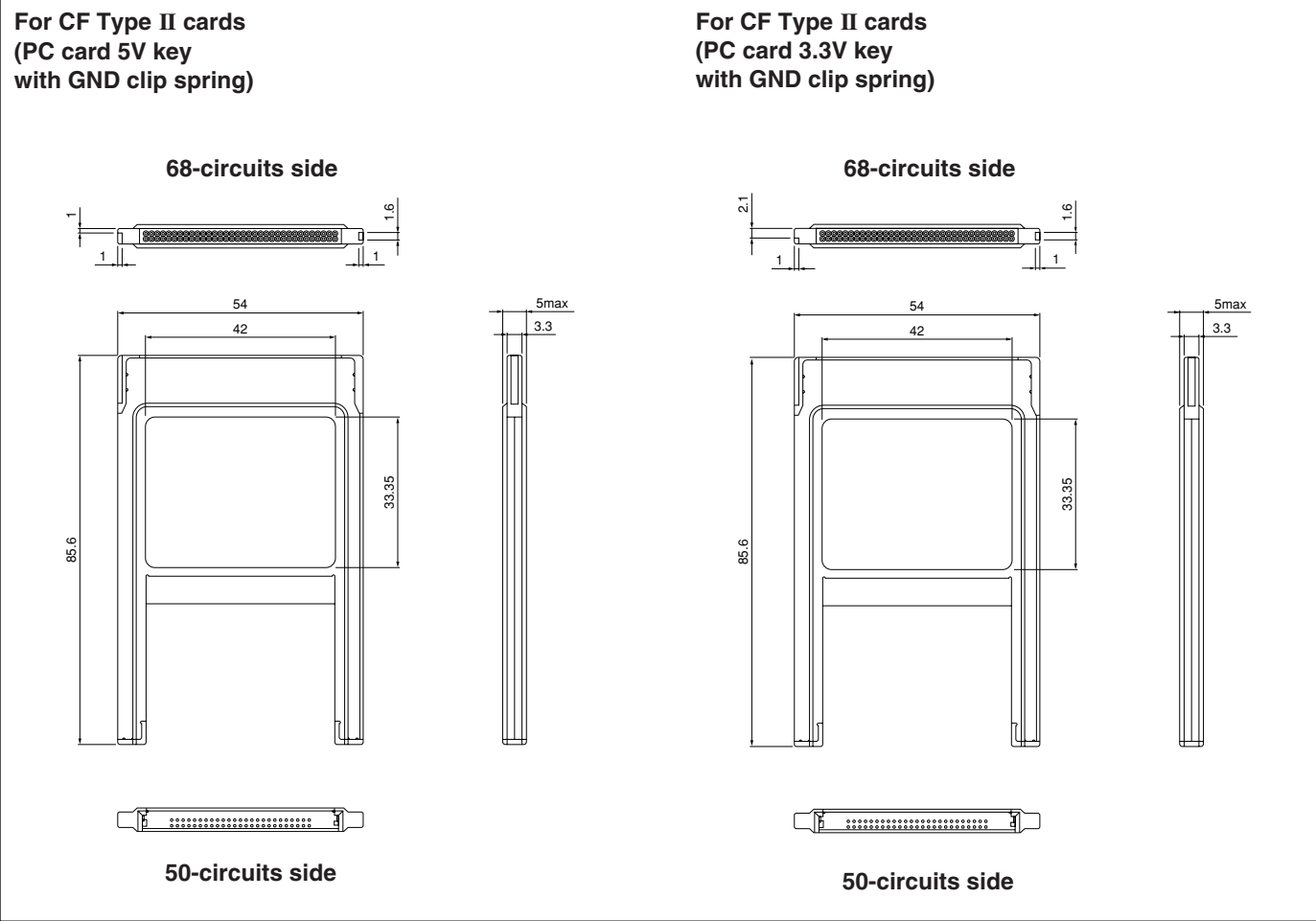
50-circuits side

Model No.	Q'ty / box	Material and Finish		
ICM-MA50A-C441N	48	50-circuits side Header	Contact: Copper alloy, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment) Housing: PPS, UL94V-0	Cover: Stainless Frame: PBT, UL94V-0 PC board: Glass-epoxy, UL94V-0
		68-circuits side Socket	Contact: Copper alloy, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment) Housing: LCP, UL94V-0 Grounding spring: Copper alloy, nickel-undercoated, gold-plated	

RoHS compliance This product displays (LF)(SN) on a label.

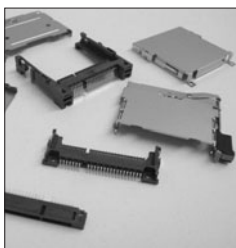
CF CARD CONNECTOR MA Type

Adapter card



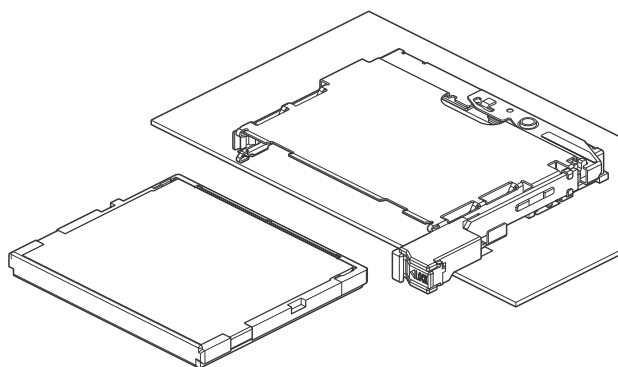
Model No.	Q'ty / box	Material and Finish		
ICM-MA2A-CL454N ICM-MA2A-C454N	48	50-circuits side Header	Contact: Copper alloy, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment) Housing: PPS, UL94V-0	Cover: Stainless Frame: PBT, UL94V-0 PC board: Glass-epoxy, UL94V-0 Contact spring: Copper alloy Shutter: PPS, UL94V-0 Spring: Stainless Lock: Stainless
		68-circuits side Socket	Contact: Copper alloy, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment) Housing: LCP, UL94V-0 Grounding spring: Copper alloy, nickel-undercoated, gold-plated	

RoHS compliance This product displays (LF)(SN) on a label.



CFF CONNECTOR

1.27mm pitch/Connector for CFast™ Card Standard



This is the connector for CFast™ Card complying with CFast™ Specification.

- ***Compliant with CFast™ Card Standard***
- ***Stable transmission characteristic***
- ***Card connector with GND spring***
- ***Ejector with slide lock***

Specifications

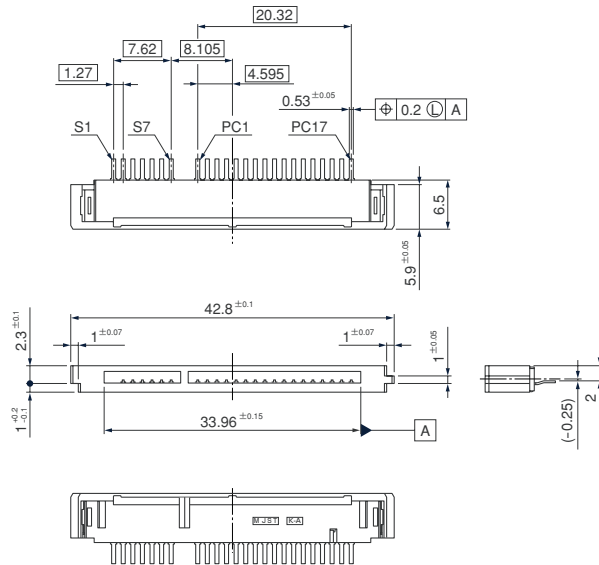
- Temperature range: -40°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 30 mΩ max.
After environmental tests/ 15 mΩ max.
(variation from initial value)
- Insulation resistance: 1,000 MΩ min. 500 VDC
- Withstanding voltage: 500 VAC/minute
- Durability: 10,000 cycles

- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Compliant with RoHS.

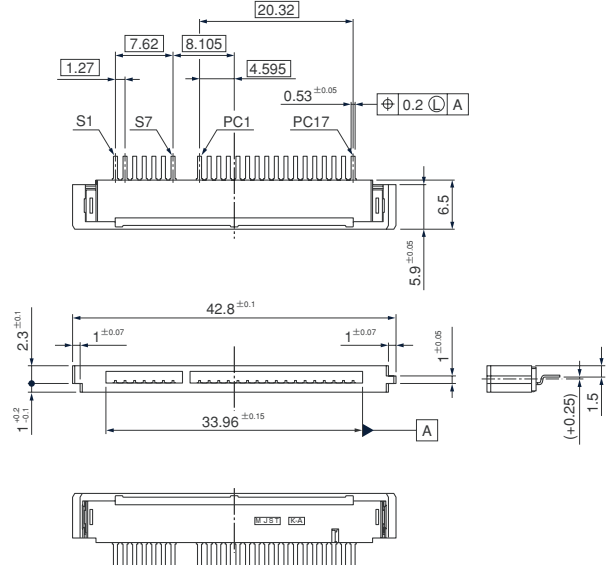
CFF CONNECTOR

Card connector

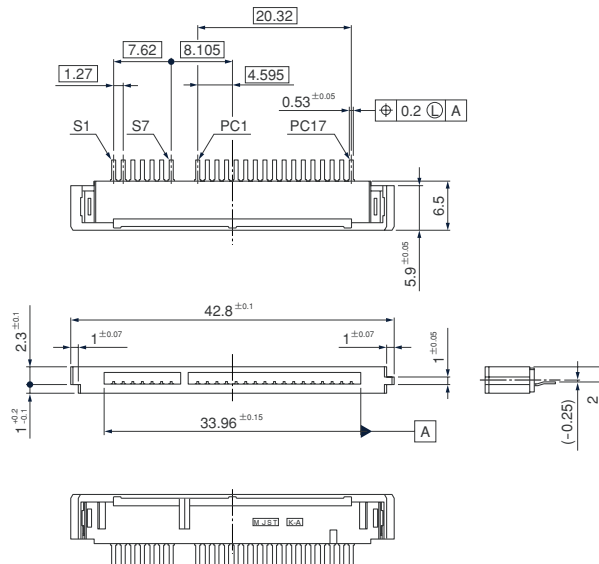
Offset -0.25mm (With GND spring)



Offset +0.25mm (With GND spring)



Offset -0.25mm (Without GND spring)

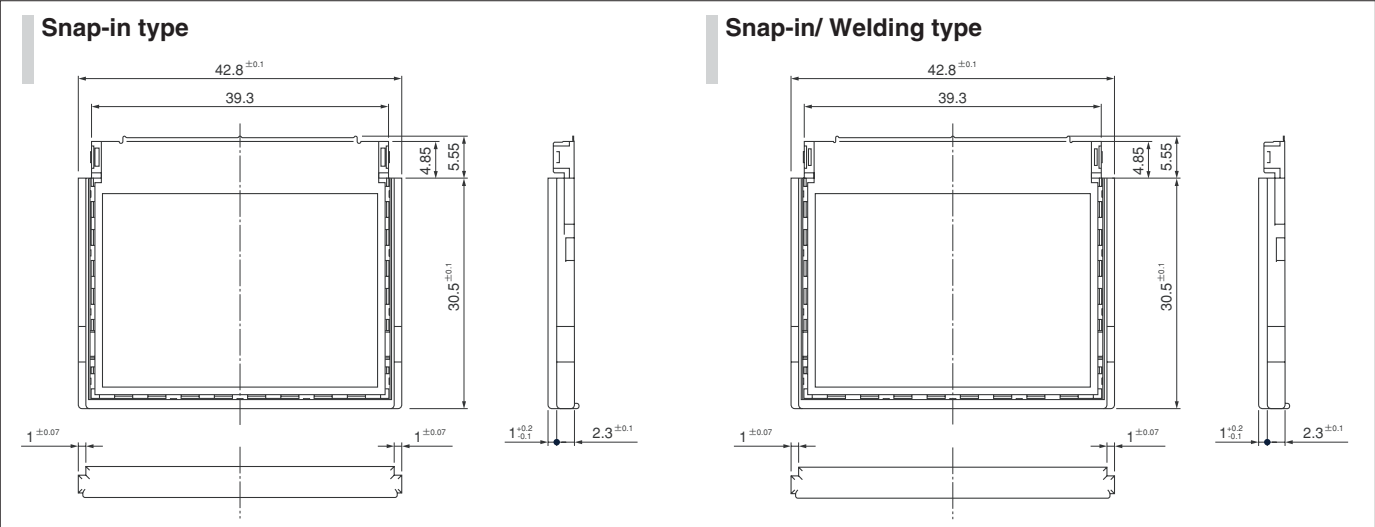


Circuits	Offset dimension	GND spring	Model No.	Q'ty / reel	Material and Finish
24	-0.25mm	With	CFF-CC24S-1521-GB25T	1,500	Contact: Copper alloy, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment)
		Without	CFF-CC24S-1521-NB25T	1,500	Grounding spring: Copper alloy, nickel-undercoated, Mating part; gold-plated
	+0.25mm	With	CFF-CC24S-1521-GT25T	1,500	Housing: Plastic, UL94V-0, black

RoHS compliance This product displays (LF)(SN) on a label.

CFF CONNECTOR

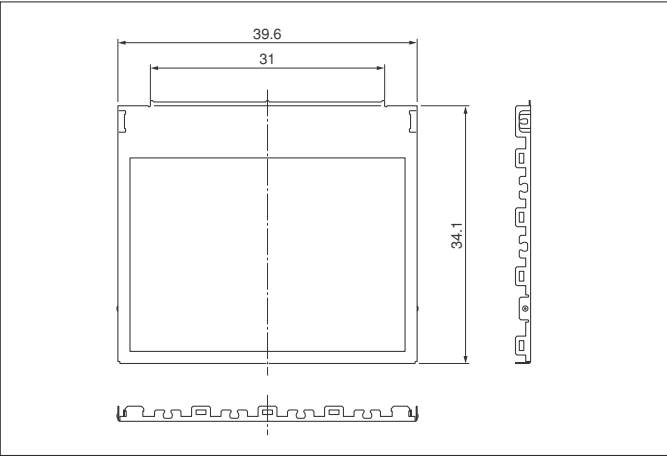
Top cover for Type I card



Type	Model No.	Q'ty / box	Material
Snap-in type	CFF-FT1S-11FM	1,344	Top cover : Stainless steel, Insulated film: PET Frame: Plastic, UL94V-0, black
Snap-in/ Welding type	CFF-FT1U-11FM		

RoHS compliance

Bottom cover

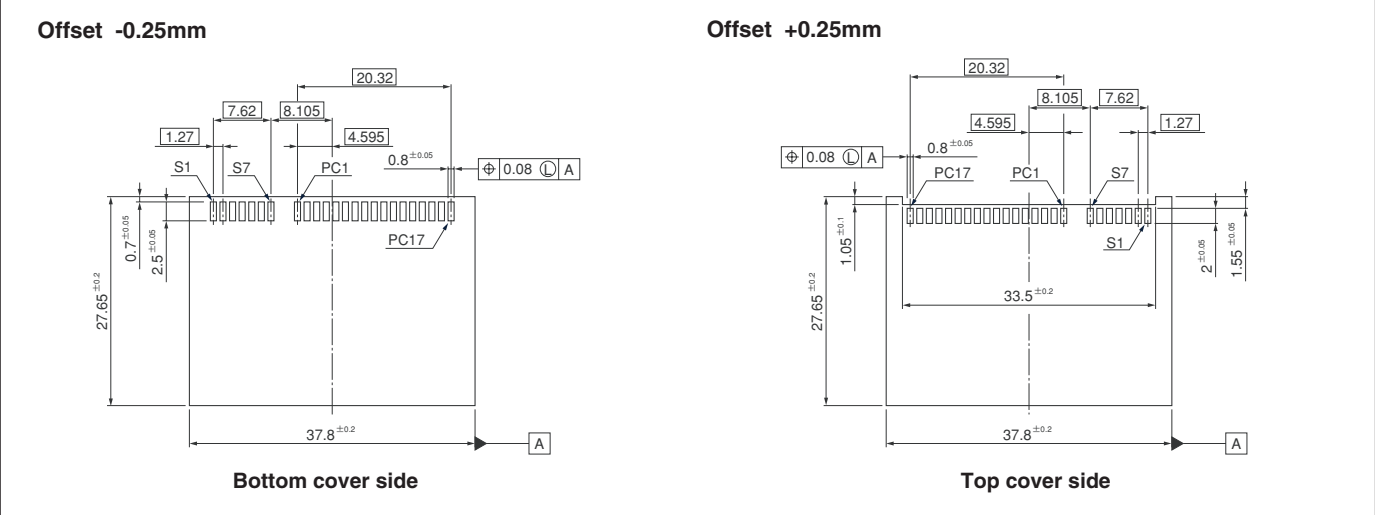


Circuits	Model No.	Q'ty / box
Snap-in type	CFF-FBU-12FM	1,344
Snap-in/ Welding type		

Material
Top cover : Stainless steel Insulated film: PET

RoHS compliance

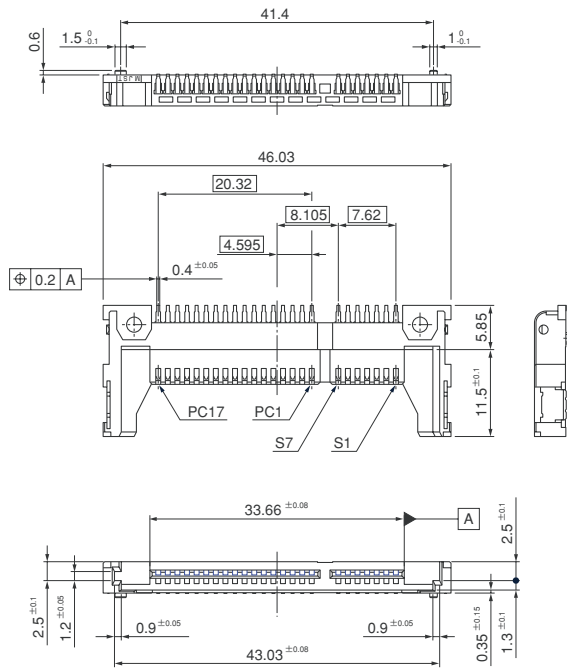
Card connector PC board layout



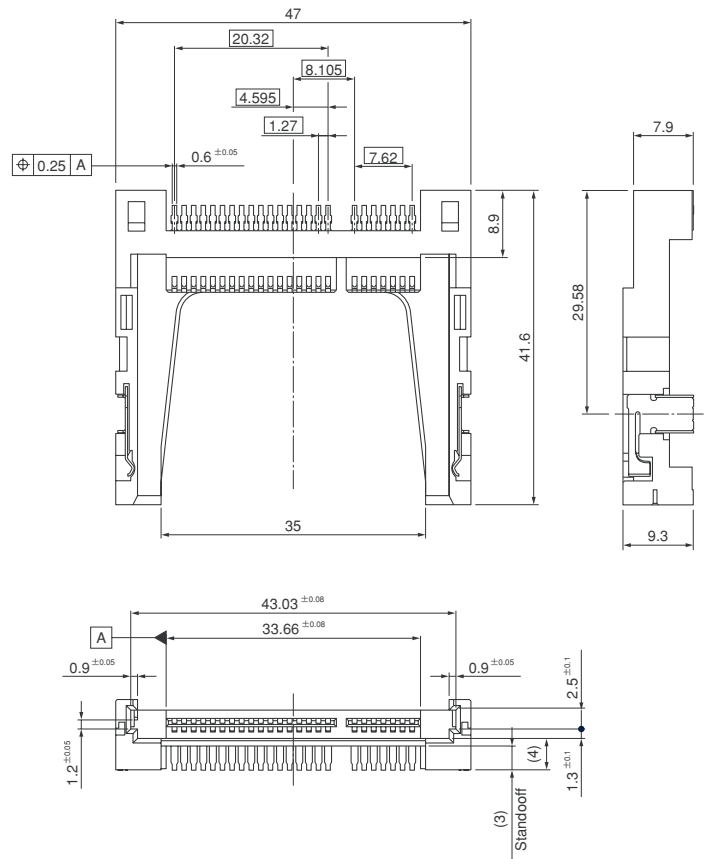
Host connector

Normal type

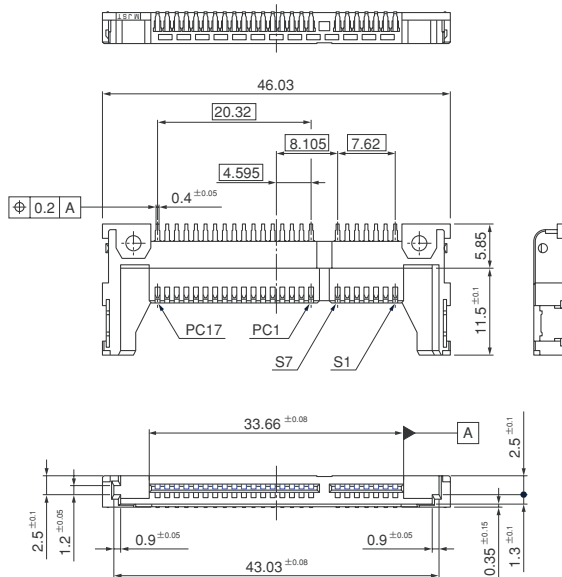
Standoff 0mm (With boss)



Standoff 3mm (Without boss)



Standoff 0mm (Without boss)

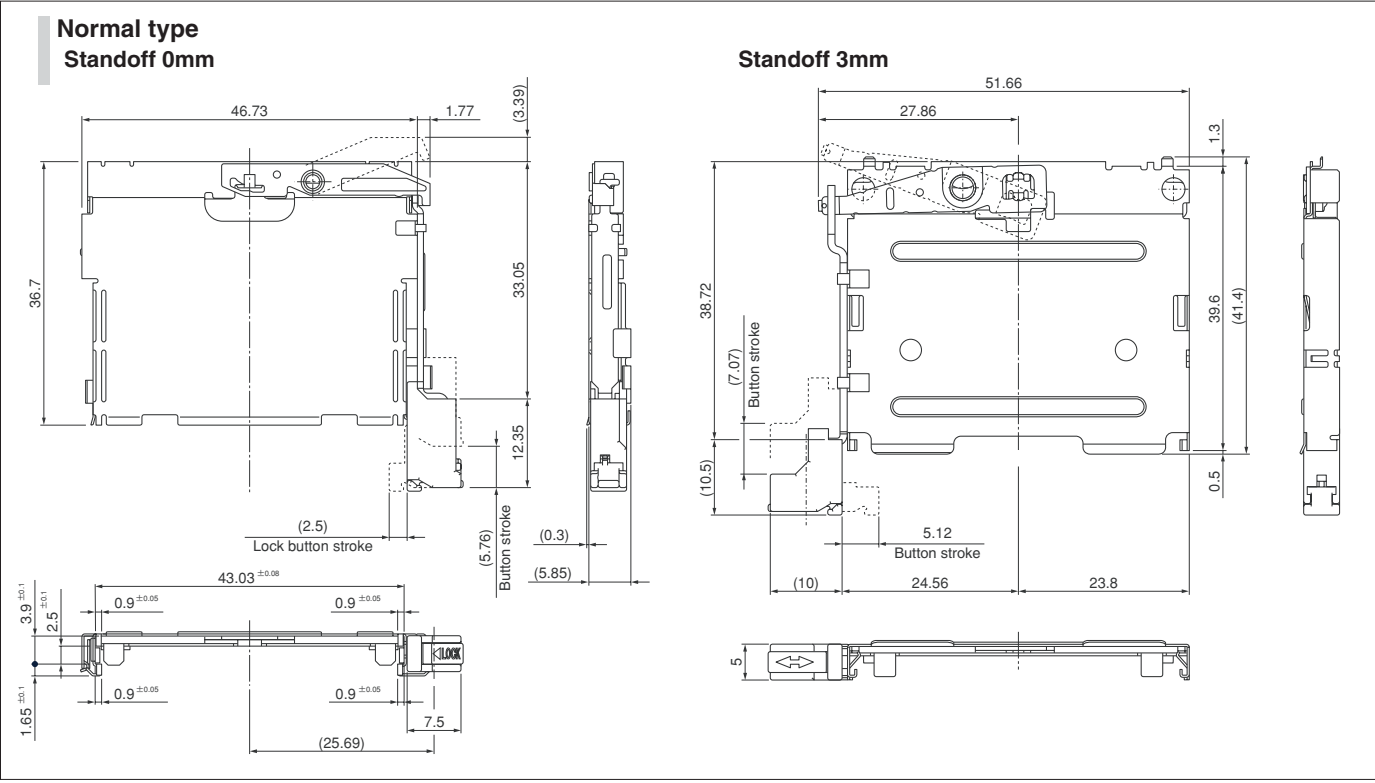


Circuits	Standoff	Boss	Model No.	Q'ty	Material and Finish
24	0mm	With	CFF-HC24S-S352-N120T	700 (reel)	Contact: Copper alloy, nickel-undercoated, Mating part: gold-plated Solder tail: tin-plated (reflow treatment) Reinforcing: Copper alloy, nickel-undercoated, tin-plated (reflow treatment) Housing: Plastic, UL94V-0, black
			CFF-HC24S-S352-N120T1	100 (reel)	
	3mm	Without	CFF-HC24S-S352-N130T	700 (reel)	
		Without	CFF-HC24SG-S352-N133A	480 (box)	
			CFF-HC24SG-S352-N133AR1	75 (box)	

RoHS compliance This product displays (LF)(SN) on a label.

CFF CONNECTOR

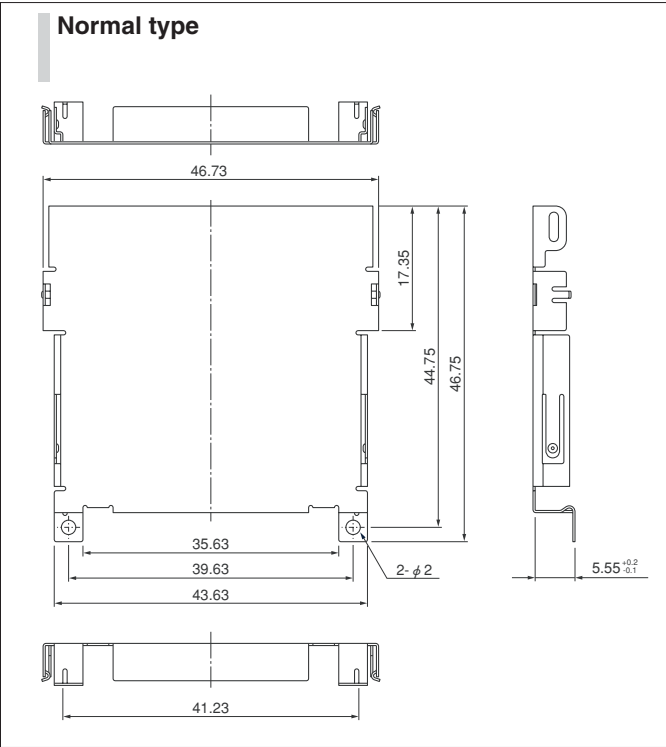
Ejector



Standoff	Button position	Model No.	Q'ty / box	Material and Finish
0mm	Right button	CFF-EP2R-NS11B	630	Frame: Stainless steel Standoff 0mm type; Solder tail; tin-plated (reflow treatment) Push button: Plastic, UL94HB, black Lock button: Plastic, UL94HB, gray
		CFF-EP2R-NS11BR1	105	
3mm	Left button	CFF-EP2L-NL10B	528	
		CFF-EP2R-NL10BR1	96	

RoHS compliance Standoff 0mm type product displays (LF)(SN) on a label.

Hold cover

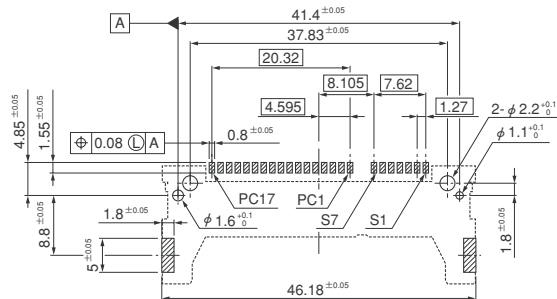


Standoff	GND spring	Model No.	Q'ty / box
0mm	With	CFF-NE2-NS1C	690
		CFF-NE2-NS1CR1	120
Material			
Frame: Stainless steel			

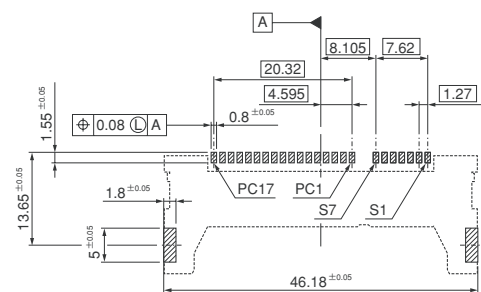
RoHS compliance

Host connector PC board layout

Standoff 0mm (With boss)

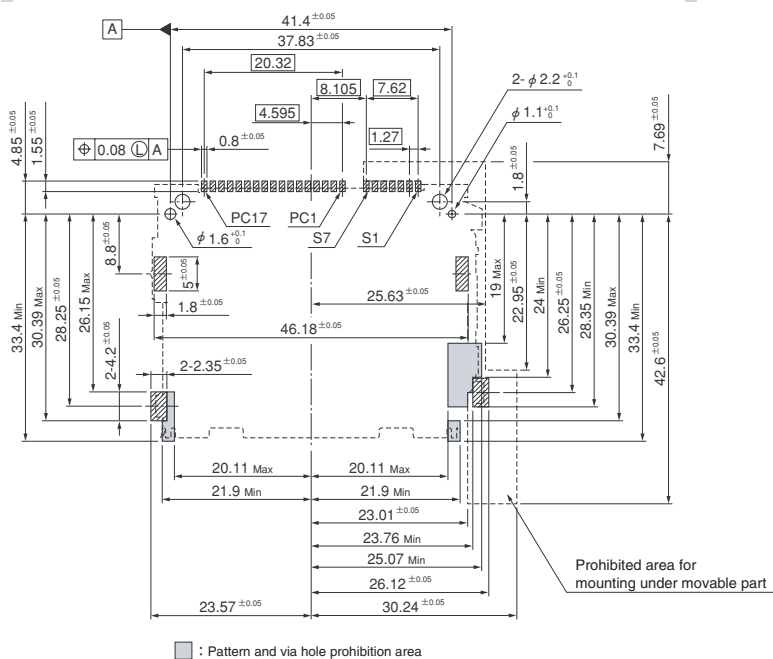


Standoff 3mm (Without boss)



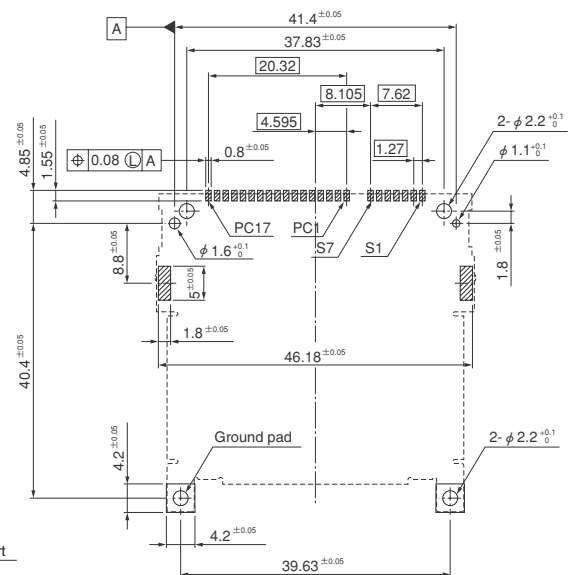
Ejector

Standoff 0mm (With boss)

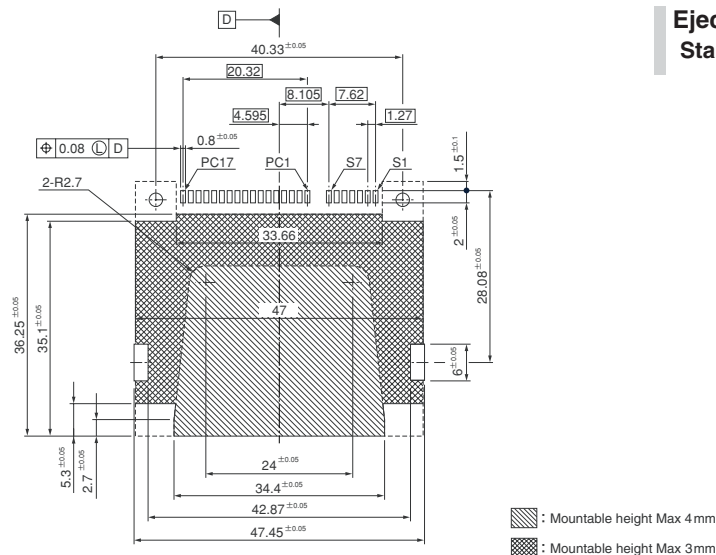


Hold cover

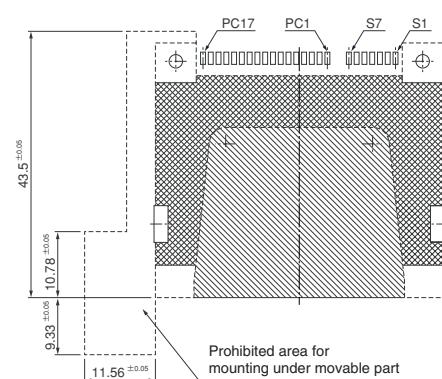
Standoff 0mm (Without boss)



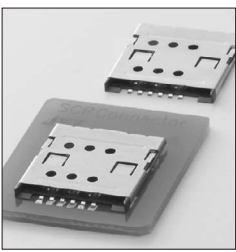
Standoff 3mm



Ejector
Standoff 3mm



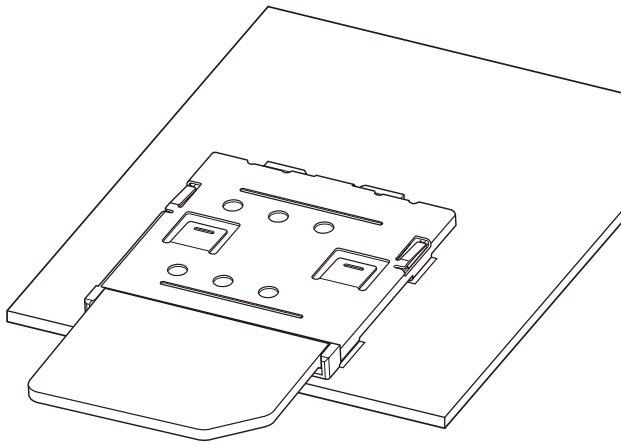
Recommended PC board layout



SCR CONNECTOR

1.52mm pitch

Emboss Tape



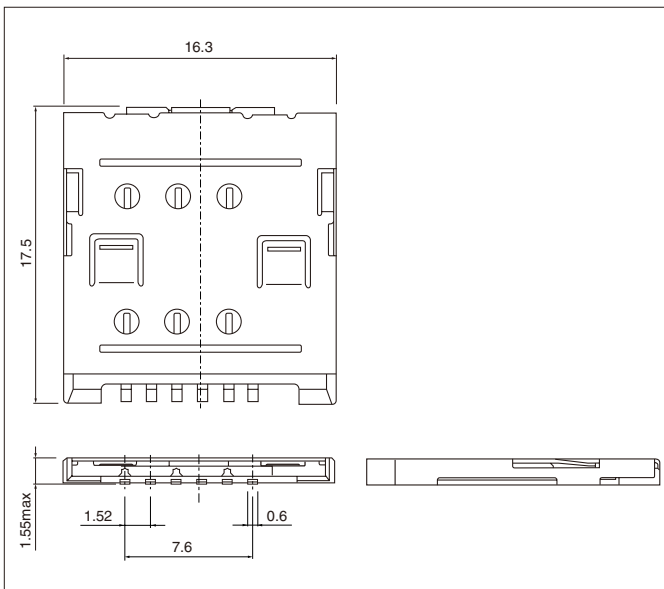
This connector is designed to achieve low profile and space saving as well as keeping basic performance of SIM (UIM) card connector as we have caught a trend that a mobile phone progresses to thinner type.

- **Connection system by manual inserting**
- **A strong shock such as a fall is endured.**

Specifications

- Current rating: 0.7A AC, DC
- Voltage rating: 30V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/50mΩ max.
After environmental testing/60mΩ max.
(variation from initial value)
- Insulation resistance: 500MΩ min.
- Withstanding voltage: 500V AC/minute
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

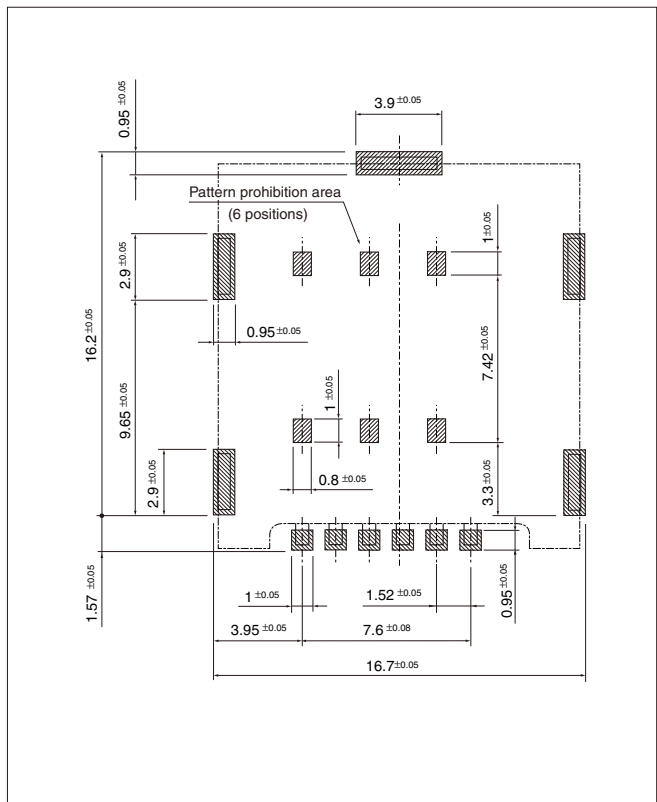
Connector



Model No.	Q'ty / reel
SCR-6S-2K-ST33-S-TB	1,500
Material and Finish	

Contact: Copper alloy, nickel-undercoated, gold-plated
Housing: Heat resisting resin, UL94V-0
Shell: Stainless, nickel-undercoated, gold-plated

PC board layout



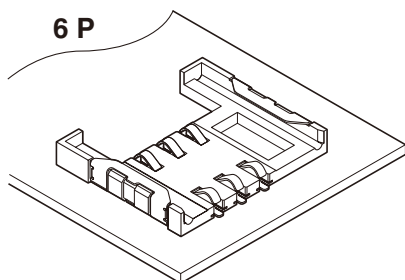
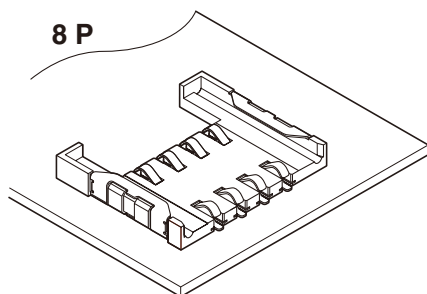
RoHS compliance

Note: This products listed above are supplied on embossed-tape.



SCK CONNECTOR

2.54mm pitch



The connector is designed for the SIM Card, complying with the GSM11.11 standard, which will be used in the European digital GSM mobile phones. This connector is also suitable for the USIM Card to be used in the Third Generation (3G) mobile network (W-CDMA).

- **Durability**
- **Abundant variations**
- **Embossed tape for automatic mounting**

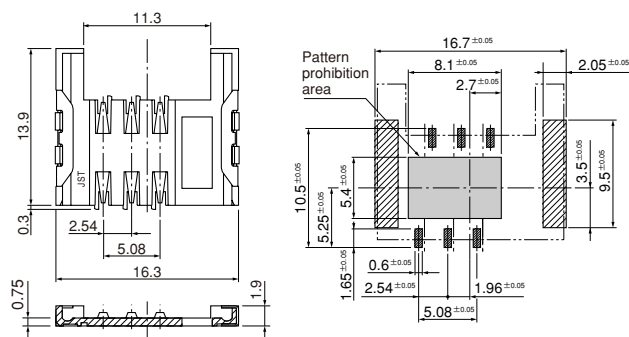
Specifications

- Current rating: 1.0A AC, DC
- Voltage rating: 30V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/40m Ω max.
After environmental testing/60m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 500V AC/minute
- * Evaluate connector in actual equipment before use.
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

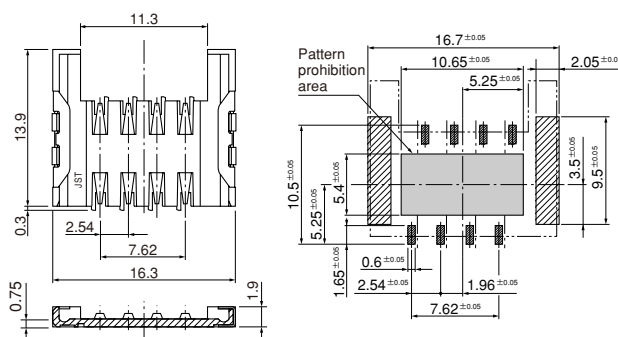
Connector and PC board layout (viewed from component side)

1.9mm height

<6 circuits>

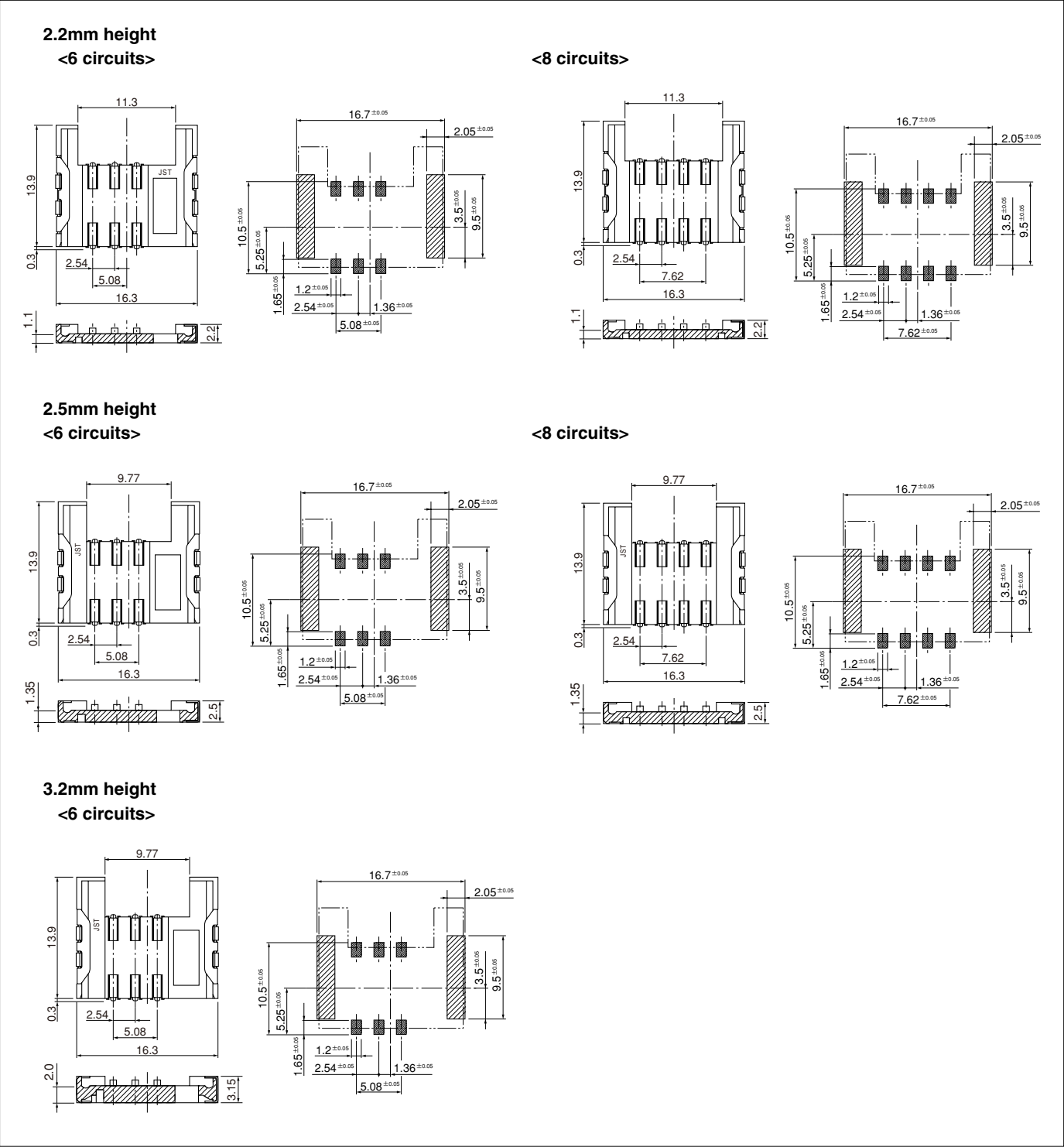


<8 circuits>



SCK CONNECTOR

Connector



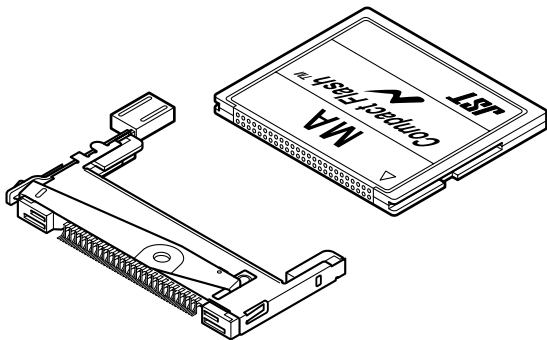
Circuits	Model No.			
	Height (mm)			
	1.9	2.2	2.5	3.2
6	SCK-6C-02PT-TF	SCK-6S-02PT-TF	SCK-6A-02PT-TF	SCK-6B-02PT-TF
8	SCK-8C-02PT-TF	SCK-8S-02PT-TF	SCK-8A-02PT-TF	—
Q'ty / reel	1,200	1,000	1,000	500
Material and Finish				
Contact: Copper alloy, nickel-undercoated, gold-plated				
Housing: LCP, UL94V-0, black				
Solder tab: Copper alloy, tin-plated (reflow treatment)				

RoHS compliance



CF CARD CONNECTOR MA Type

1.27mm pitch/50-circuit CF card connector



In addition to the connectors applicable to CF type I cards, those for CF type II cards are also available.

- **Socket / SMT type**
- **Card frame / for type I cards**
- **Adapter / for type I, II cards**
- **Header / for type I, II cards**
- **Ejector / for type I, II cards**

Specifications

- Type: Dual-row at mating section
- Current rating: 0.5 A AC, DC/line
- Temperature range: -20°C to +60°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 40 mΩ max.
After environmental tests/ 20 mΩ max.
(variation from initial value)
- Insulation resistance: 1,000 MΩ min. 500V DC (Except for Adapter cards)
- Withstanding voltage: 500 VAC/minute (Except for Adapter cards)
- Mating/unmating life: 10,000 cycles
- Conforms to CFA.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

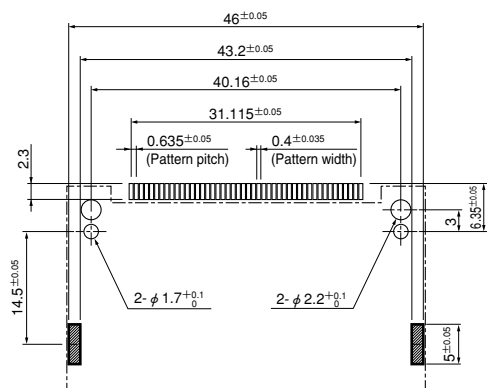
* Contact JST for details.

* Compliant with RoHS.

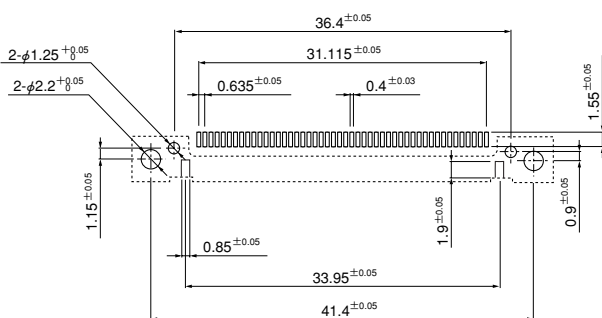
CF CARD CONNECTOR MA Type

PC board layout (viewed from component side)

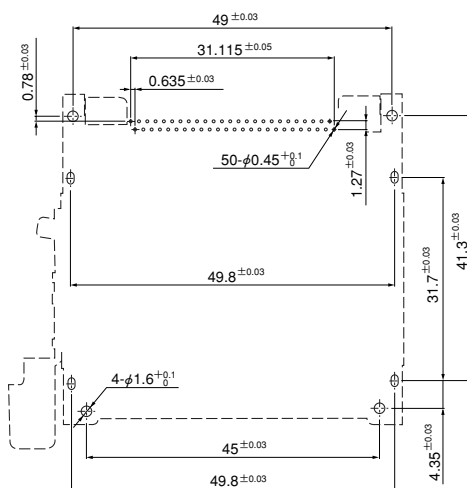
For Type I cards/Standoff 1.64mm
Normal type/Reverse type



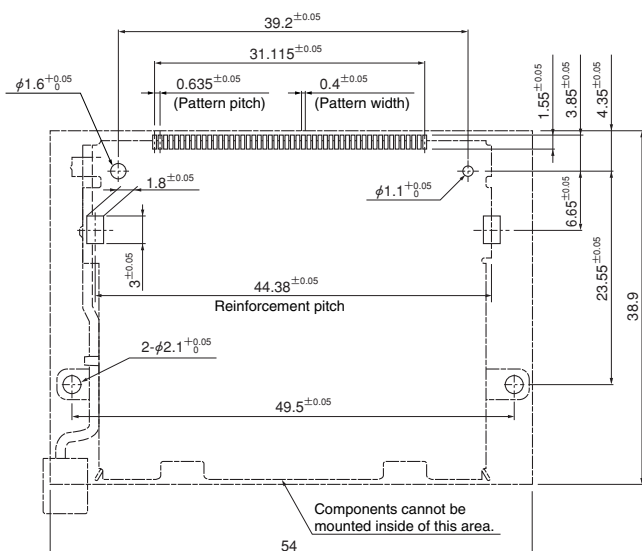
Space-saving type For Type I cards/Standoff 0mm
Normal type/Reverse type



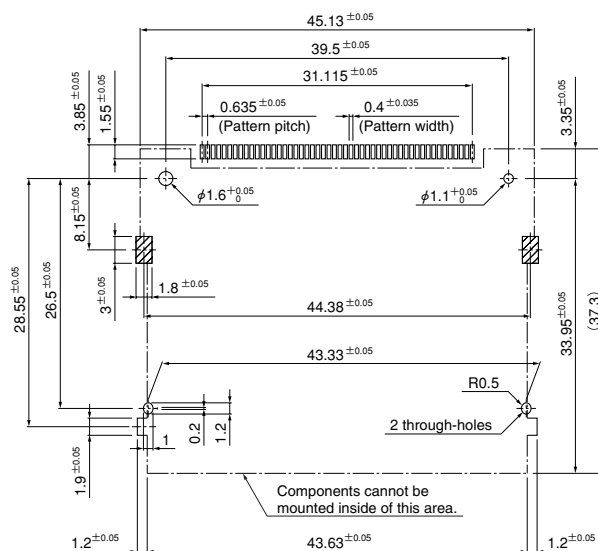
Ejector mounted header with shutter For Type II cards
Reverse type (Standoff 0mm)



Space-saving type For Type II cards/Standoff 0mm
Normal type



Reverse type

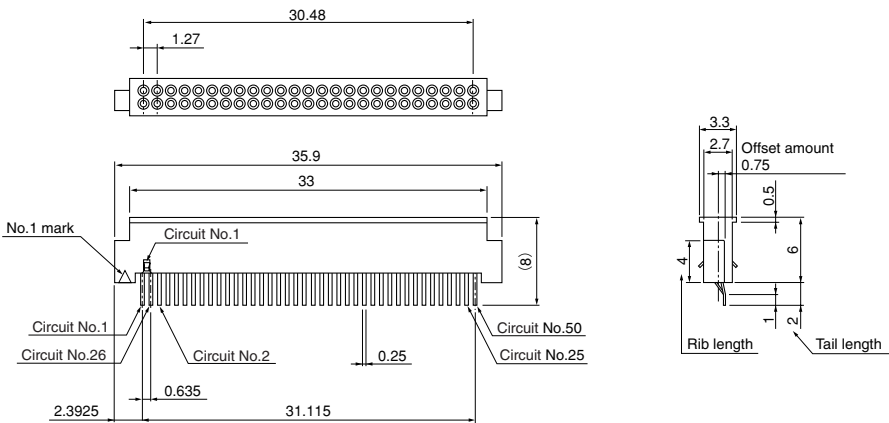


CF CARD CONNECTOR MA Type

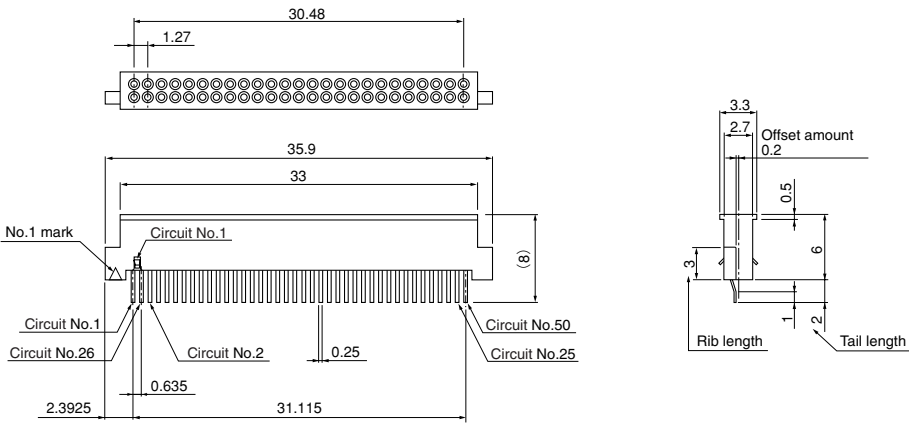
Socket

SMT type

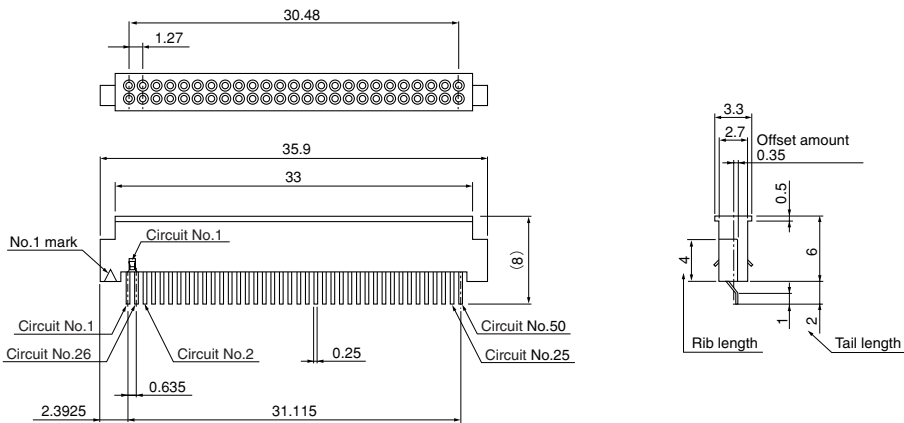
ICM-MA50S-TS12-3022



ICM-MA50S-TS12-3023



ICM-MA50S-TS12-3024

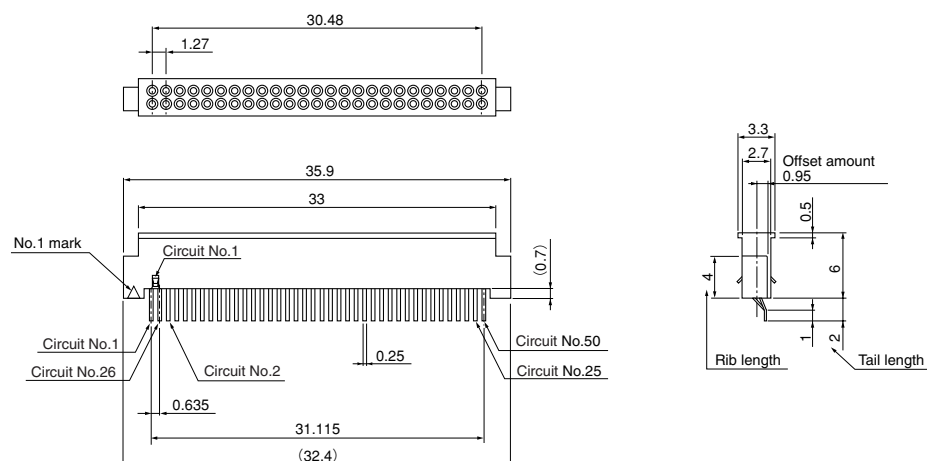


CF CARD CONNECTOR MA Type

Socket

SMT type

ICM-MA50S-TS12-3026

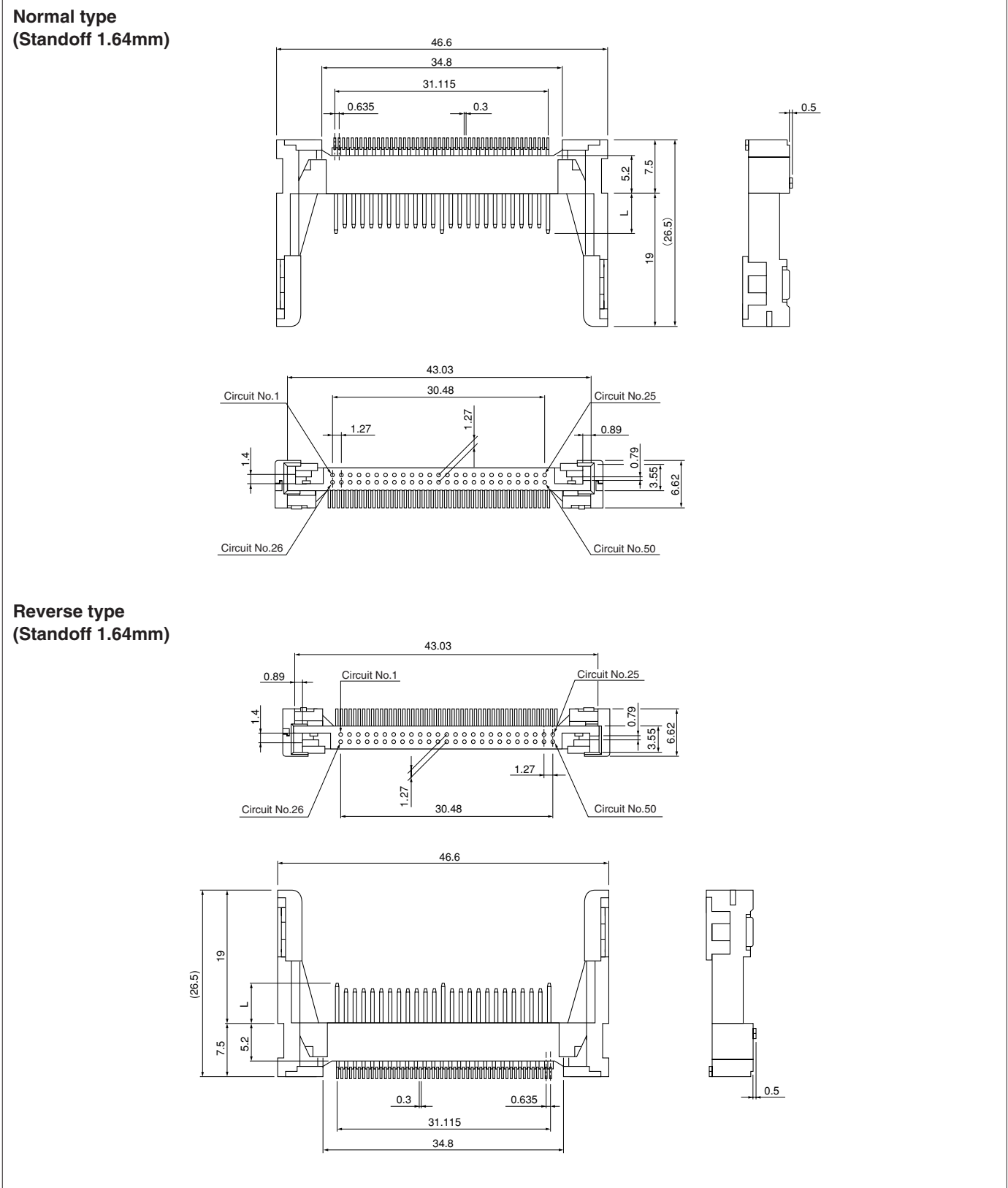


Circuits	Solder tail	GND spring	Offset dimensions(mm)	Rib length (mm)	Tail length (mm)	Model No.	Q'ty / reel	Material and Finish
50	SMT type	With (Circuit No.1, No.26)	0.75	4.0	2.0	ICM-MA50S-TS12-3022T	1,500	Contact: Copper alloy, nickel-undercoated, Mating part; gold-plated
			0.2	3.0		ICM-MA50S-TS12-3023T		Solder tail; tin-plated (reflow treatment)
			0.35	4.0		ICM-MA50S-TS12-3024T		Grounding spring: Copper alloy, nickel-undercoated, gold-plated
			0.95	4.0		ICM-MA50S-TS12-3026T		Housing: LCP, UL94V-0, black

RoHS compliance This product displays (LF)(SN) on a label.

CF CARD CONNECTOR MA Type

Header (for Type I cards)



Circuits	Type	Model No.	Q'ty / box	Material and Finish
50	Normal	ICM-MA50H-SS52-1141	140	Contact: Phosphor bronze, nickel-undercoated, Mating part: gold-plated Solder tail; tin-plated (reflow treatment)
	Reverse	ICM-MA50H-SS52-1161		Housing: PPS, UL94V-0 Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

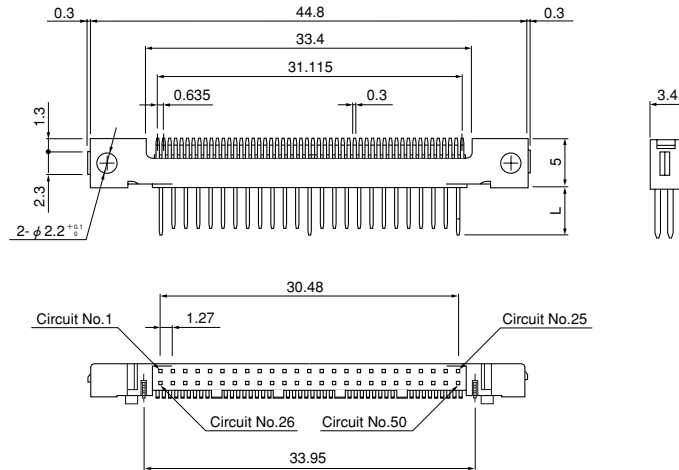
RoHS compliance This product displays (LF)(SN) on a label.

Dimension L	
Circuit No.	Dimensions (mm)
1, 13, 38, 50	5.0 ±0.1
2 to 12, 14 to 24, 27 to 37, 39 to 49	4.25 ±0.1
25, 26	3.5 ±0.1

CF CARD CONNECTOR MA Type

Header (for Type I cards) / Space-saving type

Normal , Reverse types (Standoff 0mm)



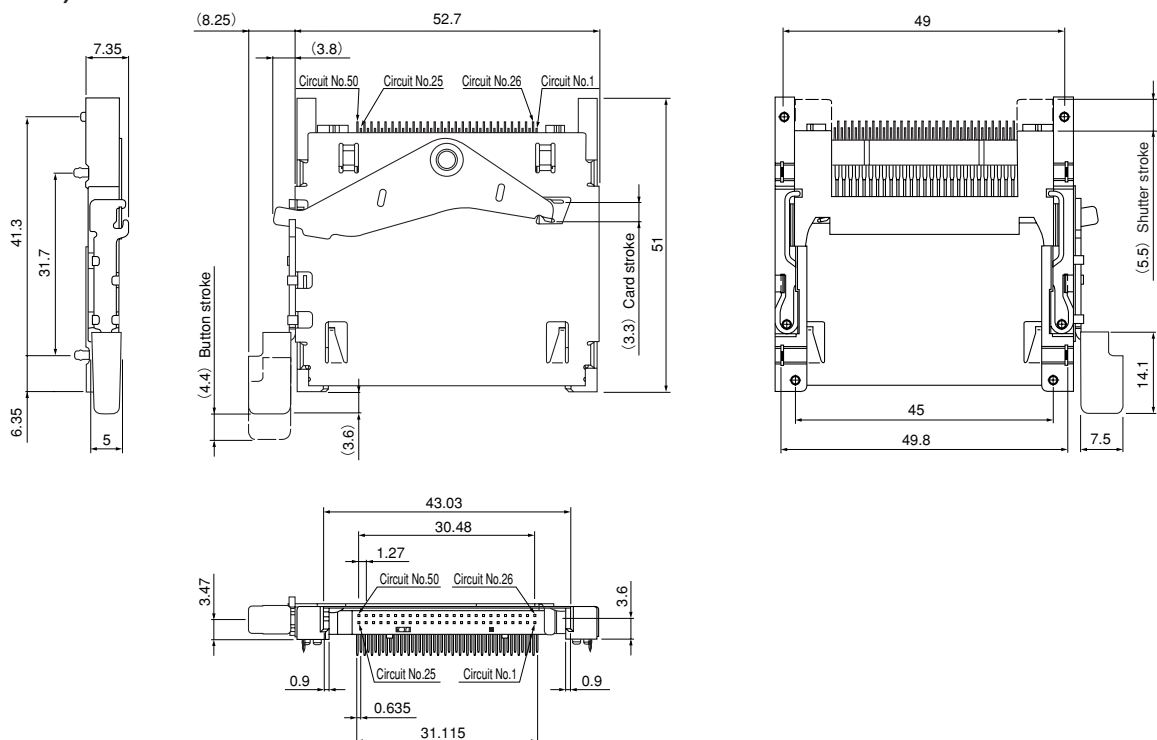
Circuits	Type	Model No.	Q'ty / box	Material and Finish
50	Normal	ICM-MA50H-SS52-1184	1,850	Contact: Copper alloy, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment)
	Reverse			Housing: PPS, UL94V-0, black Solder tab: Copper alloy, nickel-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Dimension L	
Circuit No.	Dimensions (mm)
1, 13, 38, 50	5.0 ±0.1
2 to 12, 14 to 24, 27 to 37, 39 to 49	4.25 ±0.1
25, 26	3.5 ±0.1

Ejector mounted header with shutter (for Type II cards)

Reverse type (Standoff 0mm)



Circuits	Type	Model No.	Q'ty / box	Material and Finish
50	Reverse	ICM-MA2SL-SD12-RL31	128	Contact: Copper alloy, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment)
				Housing/ Guide bar/ Push button: PPS, UL94V-0, black Lock/ Rotation arm/ Push bar: Stainless Frame: Stainless, selective nickel-undercoated, tin/copper alloy-plated

RoHS compliance This product displays (LF)(SN) on a label.

CF CARD CONNECTOR MA Type

Header (for Type II cards) / Space-saving type

Normal type
(Standoff 0mm)

Reverse type
(Standoff 0mm)

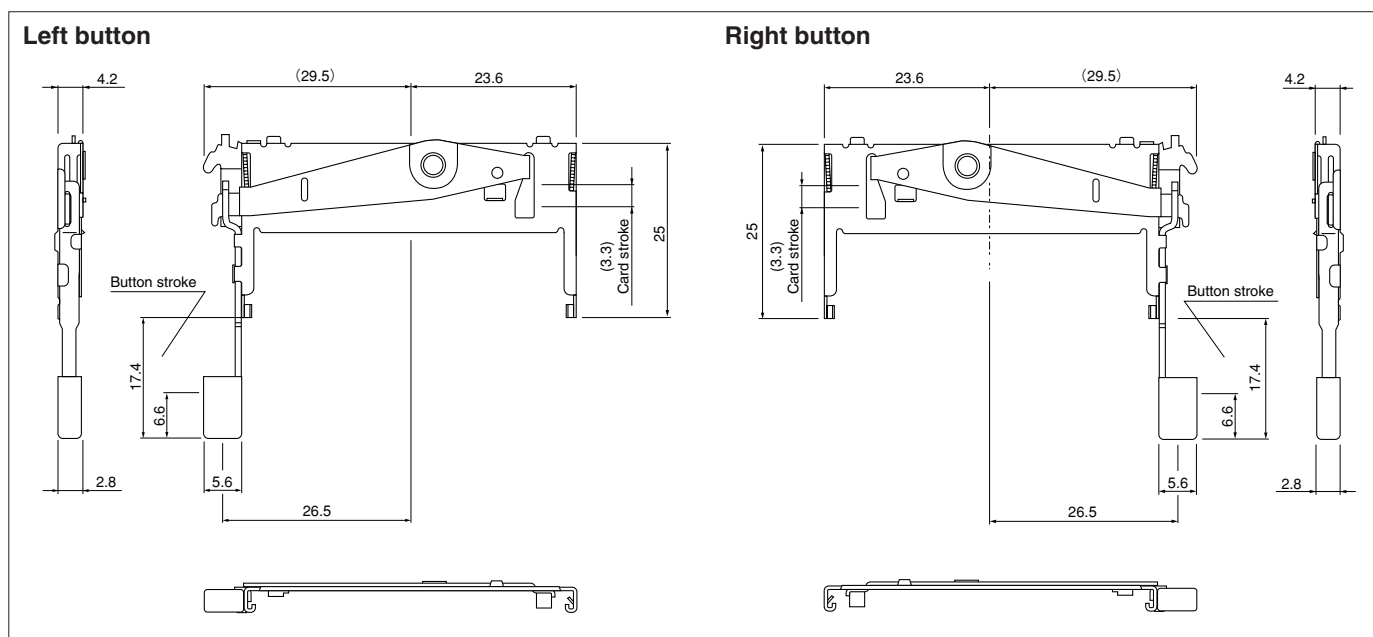
Circuits	Type	Model No.	Q'ty / rell	Material and Finish
50	Normal	ICM-MA2H-SS52-N13LT	750	Contact: Phosphor bronze, nickel-undercoated, Mating part: gold-plated Solder tail; tin-plated (reflow treatment)
	Reverse	ICM-MA2H-SS52-R13HT		Housing: PPS, UL94V-0 Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.
The products listed above are supplied on embossed-tape.

Dimension L	
Circuit No.	Dimensions (mm)
1, 13, 38, 50	5.0 ±0.1
2 to 12, 14 to 24, 27 to 37, 39 to 49	4.25 ±0.1
25, 26	3.5 ±0.1

CF CARD CONNECTOR MA Type

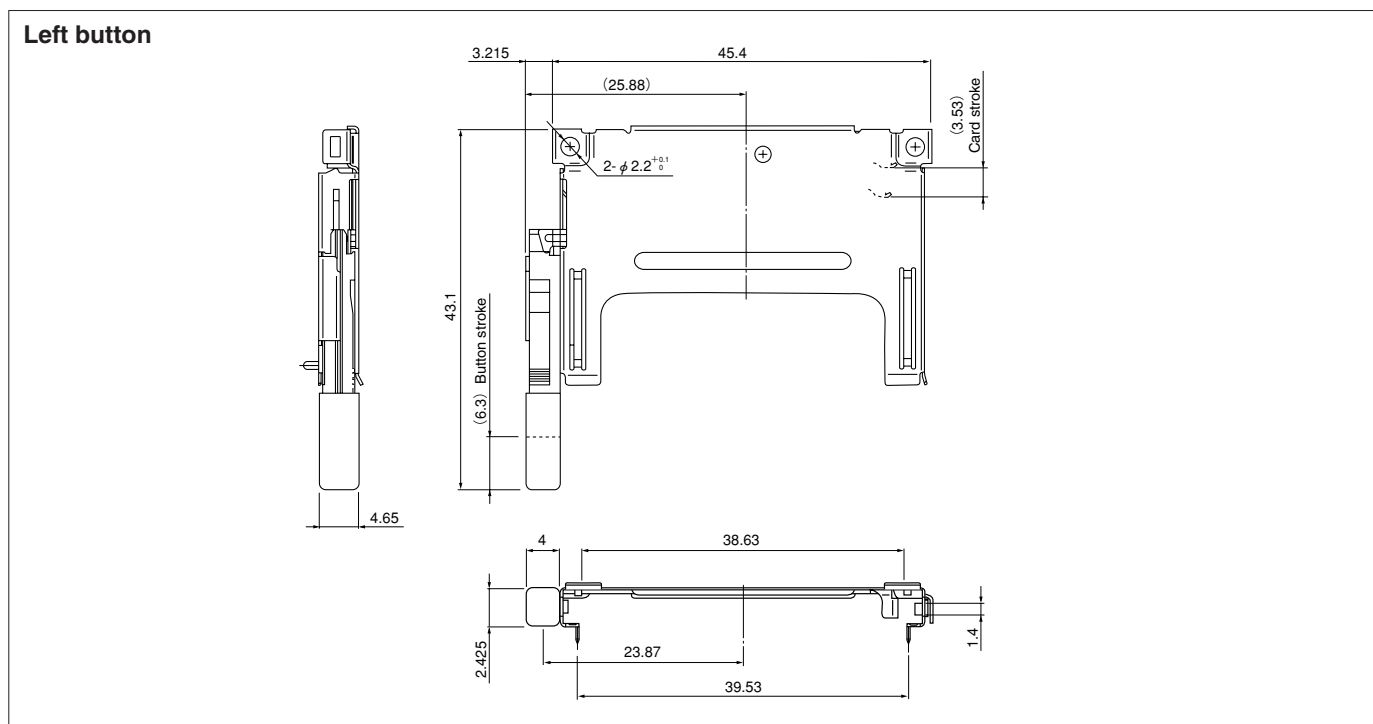
Ejector (for Type I Header)



Type	Model No.	Q'ty / box	Material	Applicable header
Right button	ICM-MAE-R01	100	Frame/ Rotation arm : Stainless Push button: PPS, UL94V-0, black	ICM-MA50H-SS52-1141
Left button	ICM-MAE-L01	100		ICM-MA50H-SS52-1161

RoHS compliance Applicable headers display (LF)(SN) on a label.

Ejector mounted header (for Type I Header) / Space-saving type



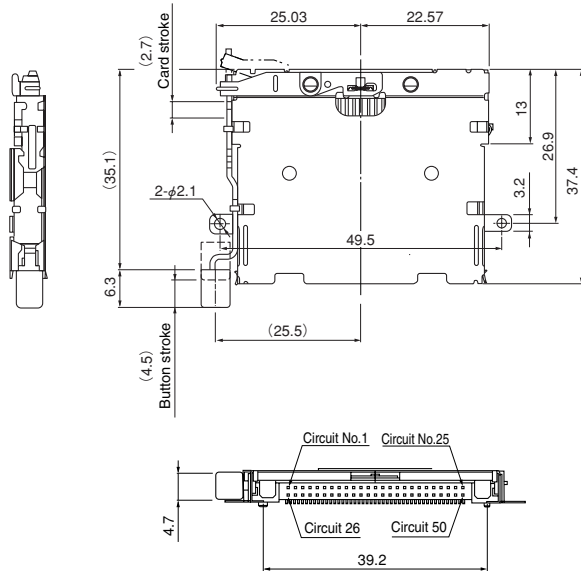
Type	Model No.	Q'ty / box	Material and Finish	Applicable header
Reverse (Left button)	ICM-MAE-L91ND	252	Frame: Stainless, nickel-undercoated, tin/copper alloy-plated Rotation arm: Stainless Push button: Synthetic resin, UL94V-0, gray	ICM-MA50H-SS52-1184

RoHS compliance This product displays (LF) on a label.
An applicable header displays (LF)(SN) on a label.

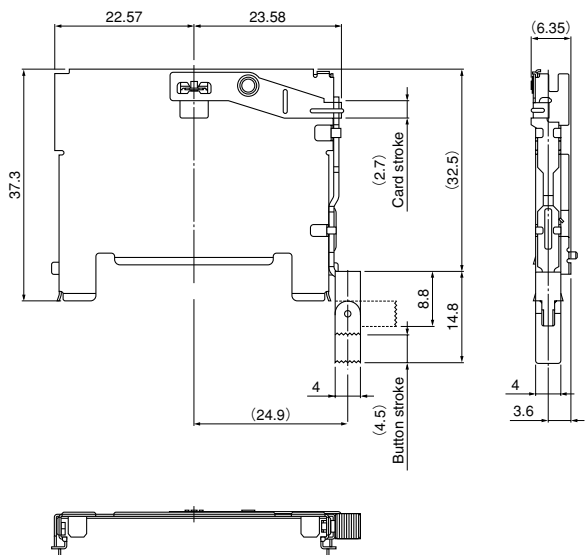
CF CARD CONNECTOR MA Type

Ejector (for Type II header) / Space-saving type

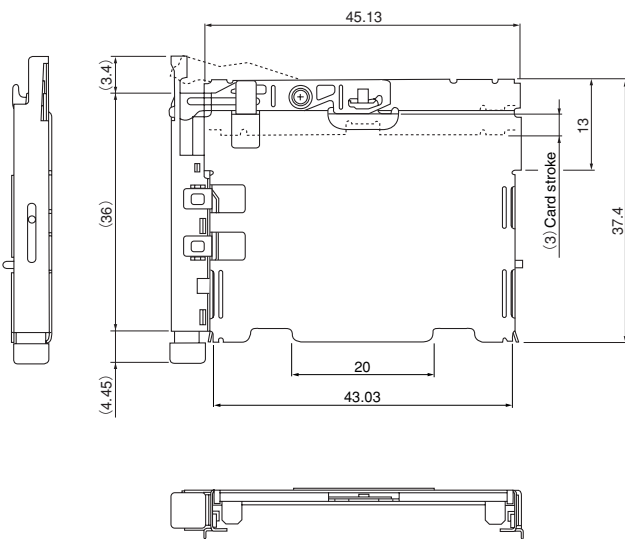
For Normal type header
(Standoff 0mm) Left button



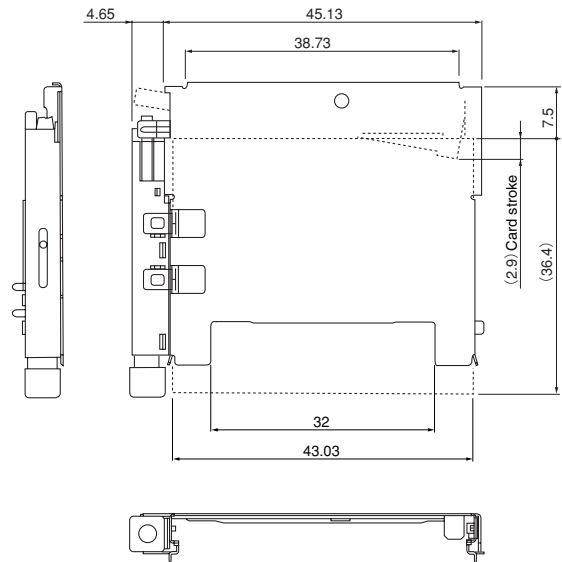
For Reverse type header
(Standoff 0mm) Right button



For Normal type header
(Standoff 0mm) Left button/Push-push type



For Reverse type header
(Standoff 0mm) Left button/Push-push type



Type	Model No.	Q'ty / box	Material and Finish	Applicable header
For Normal type header (Standoff 0mm) Left button	ICM-MAE-L73FA	36	Rotation arm/Push bar/Push plate/ Frame: Stainless Button: PBT, UL94V-0, gray	ICM-MA2H-SS52-N13L ICM-MA2H-SS52-N13LT
For Normal type header (Standoff 0mm) Left button, Push-push	ICM-MA2EP-L520A	36	Rotation arm/Push plate: Stainless Button: PBT, UL94V-0, black Frame: Stainless, selective nickel-undercoated, tin/copper alloy-plated	
For Reverse type header (Standoff 0mm) Right button	ICM-MAE-R66C3	36	Rotation arm/Push bar/Push plate/ Frame: Stainless Clinched button: Synthetic resin, black Frame: Stainless, selective nickel-undercoated, tin/copper alloy-plated	ICM-MA2H-SS52-R13HT
For Reverse type header (Standoff 0mm) Left button, Push-push	ICM-MA2EP-L810E	36	Arm: Stainless Push button: Synthetic resin, UL94V-0, black Frame: Stainless, selective nickel-undercoated, tin/copper alloy-plated	

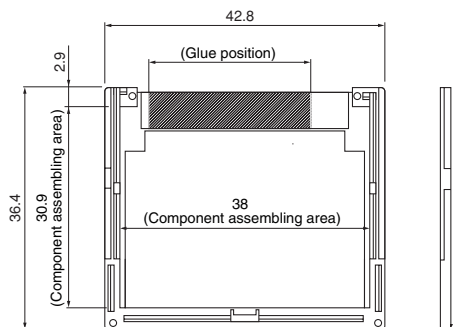
RoHS compliance ICM-MAE-R66C3 display (LF) on a label.
ICM-MA2EP-L520A/ICM-MA2EP-L810E display (LF) on a label.
Applicable headers display (LF)(SN) on a label.

CF CARD CONNECTOR MA Type

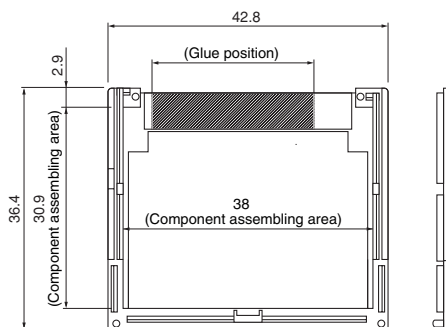
Card frame (for Type I cards)

ICM-MA50F-A/B-FB-C

Frame A



Frame B



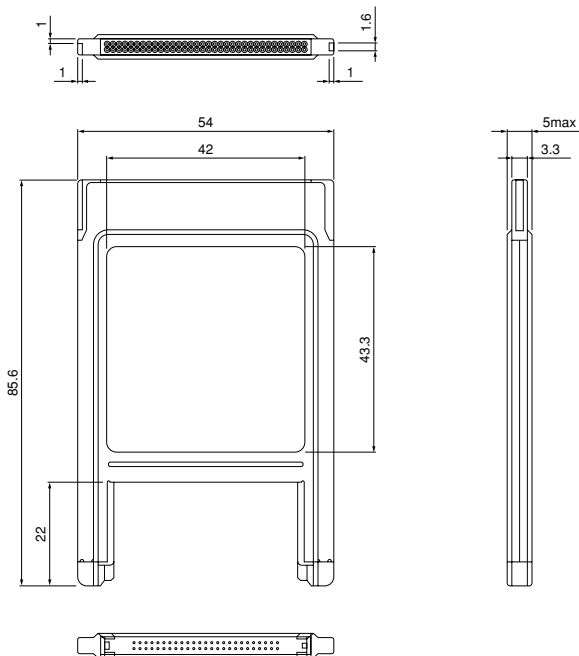
Circuits	Model No. as a set (Frame A + Frame B)	Applicable socket	Q'ty / box	Material
50	ICM-MA50F-A/B-FB-CA	ICM-MA50S-TS12-3023T	150	Frame: Glass-filled PBT, UL94V-0 Cover: Stainless

RoHS compliance

Adapter card

For CF Type I cards (PC card 5V key)

68-circuits side



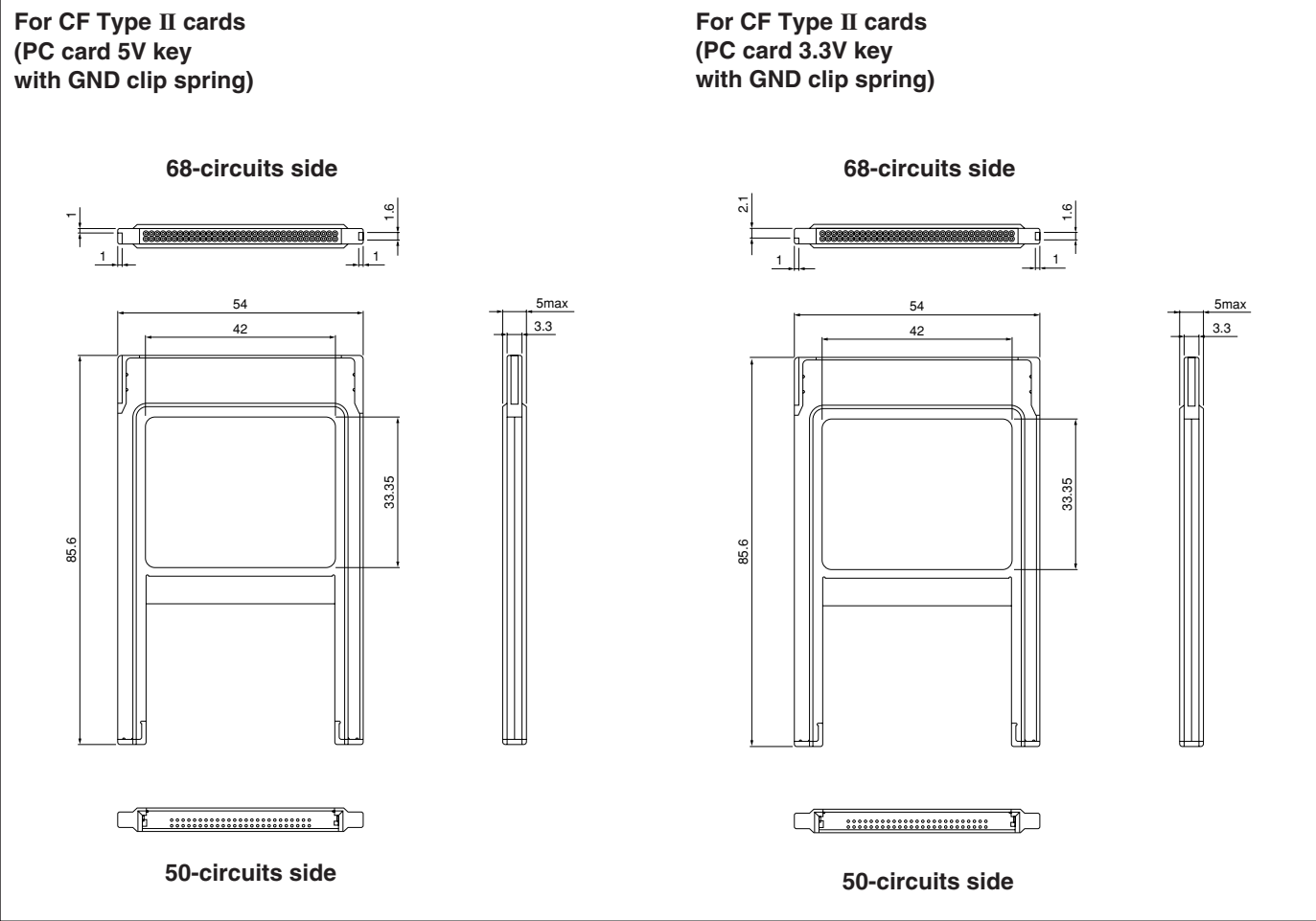
50-circuits side

Model No.	Q'ty / box	Material and Finish		
ICM-MA50A-C441N	48	50-circuits side Header	Contact: Copper alloy, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment) Housing: PPS, UL94V-0	Cover: Stainless Frame: PBT, UL94V-0 PC board: Glass-epoxy, UL94V-0
		68-circuits side Socket	Contact: Copper alloy, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment) Housing: LCP, UL94V-0 Grounding spring: Copper alloy, nickel-undercoated, gold-plated	

RoHS compliance This product displays (LF)(SN) on a label.

CF CARD CONNECTOR MA Type

Adapter card

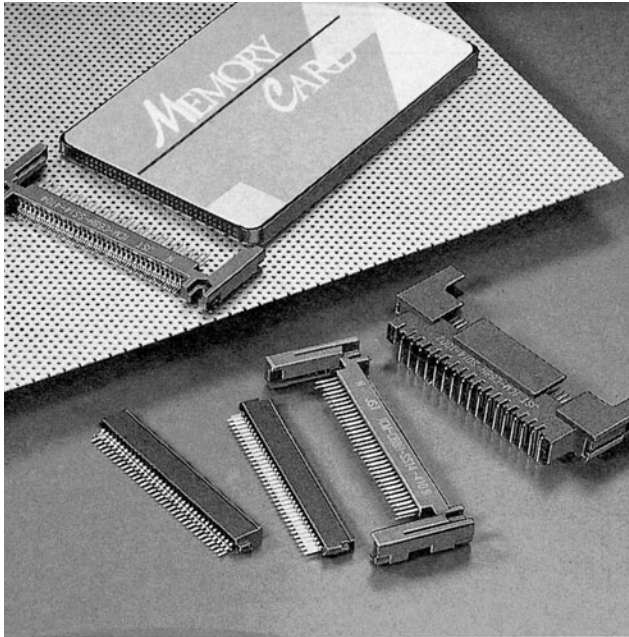


Model No.	Q'ty / box	Material and Finish		
ICM-MA2A-CL454N ICM-MA2A-C454N	48	50-circuits side Header	Contact: Copper alloy, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment) Housing: PPS, UL94V-0	Cover: Stainless Frame: PBT, UL94V-0 PC board: Glass-epoxy, UL94V-0 Contact spring: Copper alloy Shutter: PPS, UL94V-0 Spring: Stainless Lock: Stainless
		68-circuits side Socket	Contact: Copper alloy, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment) Housing: LCP, UL94V-0 Grounding spring: Copper alloy, nickel-undercoated, gold-plated	

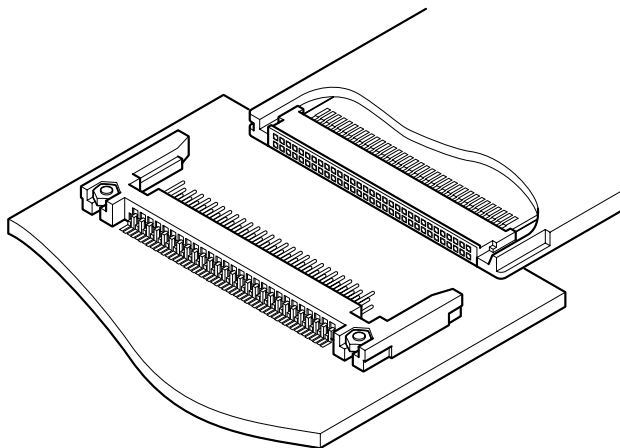
RoHS compliance This product displays (LF)(SN) on a label.

PC CARD CONNECTOR C TYPE

68-circuit PC card connectors



1.27mm pitch 68-circuit connector for PC cards.



Features

- Header pins are designed to be protected against static electricity
- **Easy inspection and touch-up after reflow soldering**
The SMT type header is 0.635mm pitch, with single row solder tails positioned so that inspection and touch-up after reflow soldering is easy.
- **Socket**
Two mounting methods, dual row straddle type and in line SMT type with variation of PC board offset distance. Newly lined up springy grounding pin type socket provides easy but stable grounding circuit connection between PC board to metal section of card frame by springy No.1 and No.35 grounding pins.
- **Applicable to low-voltage (3.3V) card**
Headers for type III cards have a groove to be applicable to the low-voltage (3.3V) cards.

Specifications

- Current rating: 0.5A AC, DC/line
 - Temperature range: -40°C to +85°C
(including temperature rise in applying electrical current)
 - Contact resistance: Initial value/ 40m Ω max.
After environmental testing/ 20m Ω max.
(variation from initial value)
 - Withstanding voltage: 500V AC/minute
 - Insulation resistance: 1,000M Ω min. (Initial)
 - Mating/unmating life: 10,000 cycles
- * Compliant with RoHS.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

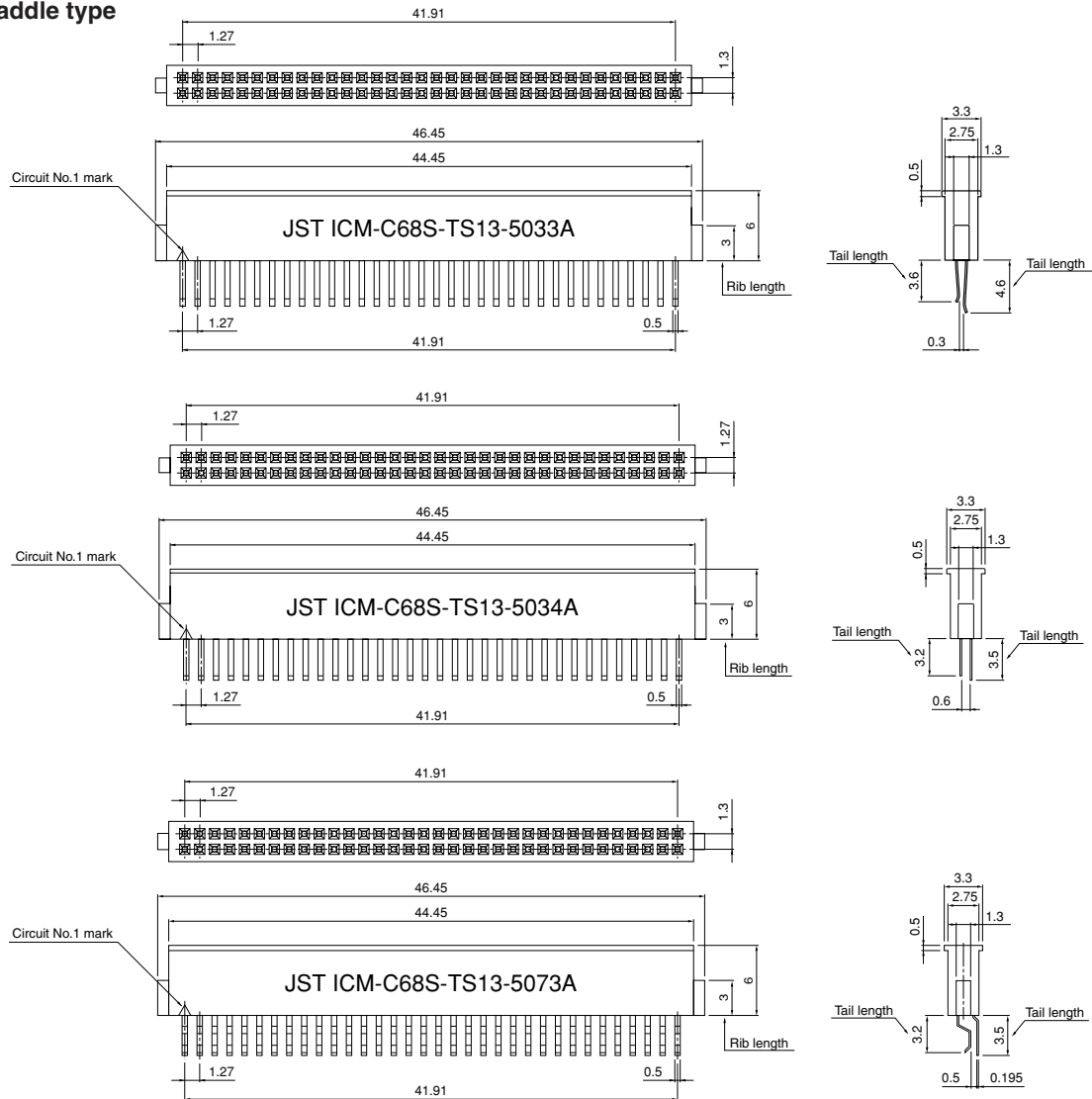
 Recognized E60389

 Certified LR20812

PC CARD CONNECTOR C TYPE

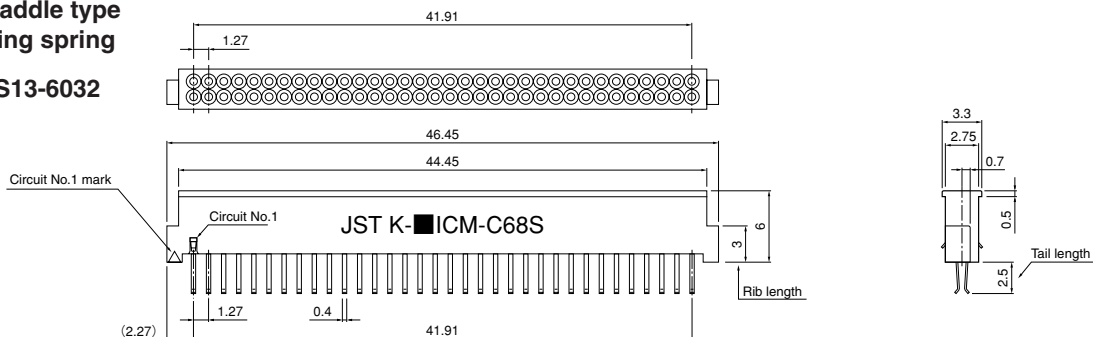
Socket

Dual-row straddle type



Dual-row straddle type with grounding spring

ICM-C68S-TS13-6032



Circuits	Solder tail	Grounding spring	Off-set dimension	Rib length (mm)	Tail length (mm)	Model No.	Q'ty / box	Material and Finish
68	Dual-row straddle type	Without	Center	3.0	3.6, 4.6	ICM-C68S-TS13-5033A	480	Contact: Copper alloy, nickel-undercoated, Mating part; gold-plated
			Center	3.0	3.2, 3.5	ICM-C68S-TS13-5034A	480	Solder tail; tin-plated (reflow treatment)
			—	3.0	3.2, 3.5	ICM-C68S-TS13-5073A	480	Housing: PA6T, UL94V-0, black
		With (Circuit No.1, No.35)	Center	3.0	2.5	ICM-C68S-TS13-6032	360	Contact: Copper alloy, nickel-undercoated, Mating part; gold-plated Housing: LPC, UL94V-0, black Solder tail; tin-plated (reflow treatment) Grounding spring: Copper alloy, nickel-undercoated, gold-plated

RoHS compliance This product displays (LF)(SN) on a label.

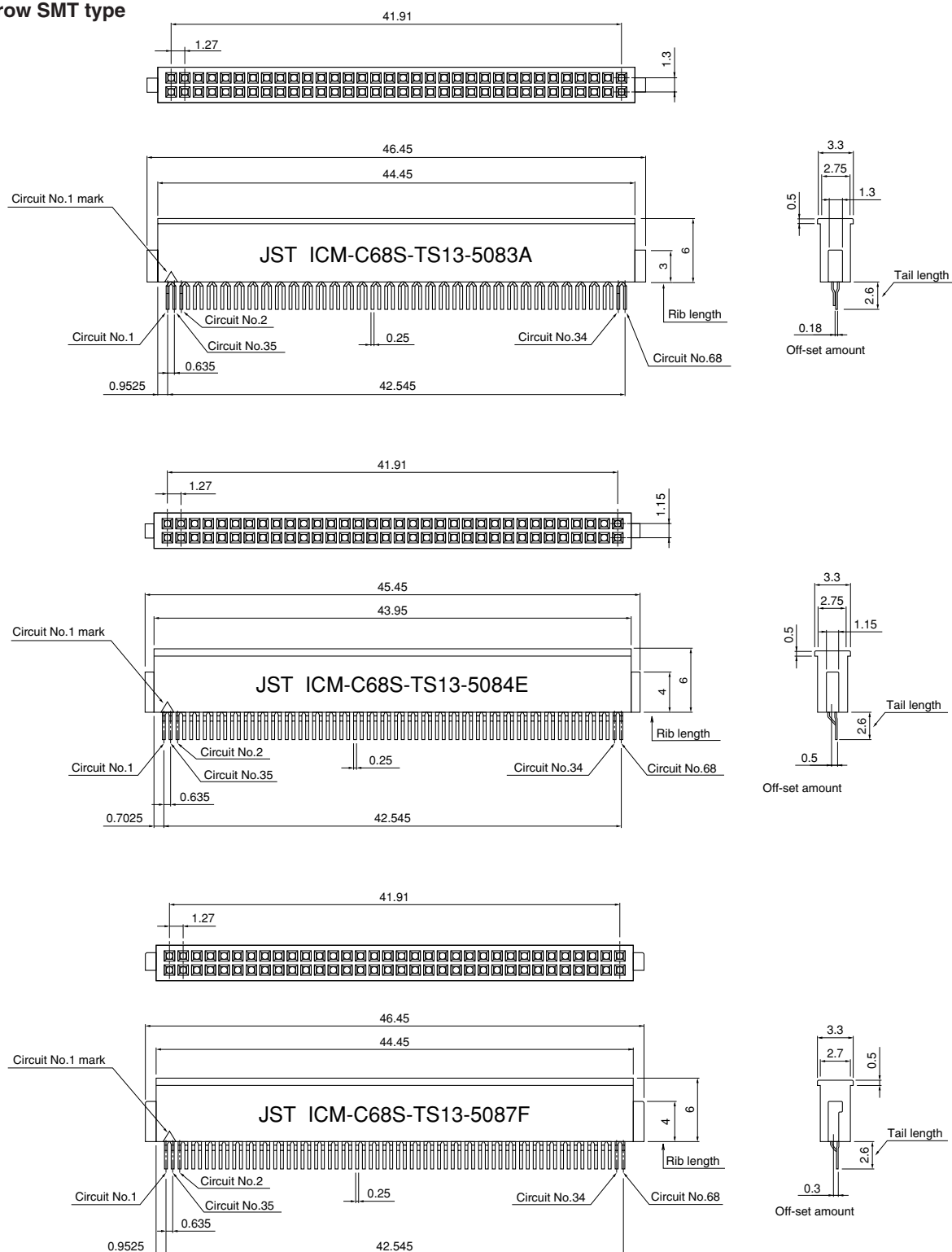
Note: 1. ICM-C68S-TS13-5033A, ICM-C68S-TS13-5034A and ICM-C68S-TS13-5073A are not UL/CSA approved.

2. ICM-C68S-TS13-6032 is not CSA approved

PC CARD CONNECTOR C TYPE

Socket

Single-row SMT type



Circuits	Solder tail	Grounding spring	Off-set dimension(mm)	Rib length (mm)	Tail length (mm)	Model No.	Q'ty	Material and Finish
68	Single-row SMT type	Without	0.18	3.0	2.6	ICM-C68S-TS13-5083A	360 / box	Contact: Copper alloy, nickel-undercoated, Mating part: gold-plated
			0.5	4.0	2.6	ICM-C68S-TS13-5084ET	1,500 / reel	Solder tail; tin-plated (reflow treatment)
			0.3	4.0	2.6	ICM-C68S-TS13-5087FT	1,500 / reel	Housing: PA6T, UL94V-0, black

RoHS compliance This product displays (LF)(SN) on a label.

Note: 1. ICM-C68S-TS13-5084ET & ICM-C68S-TS13-5087FT are supplied on embossed-tape.

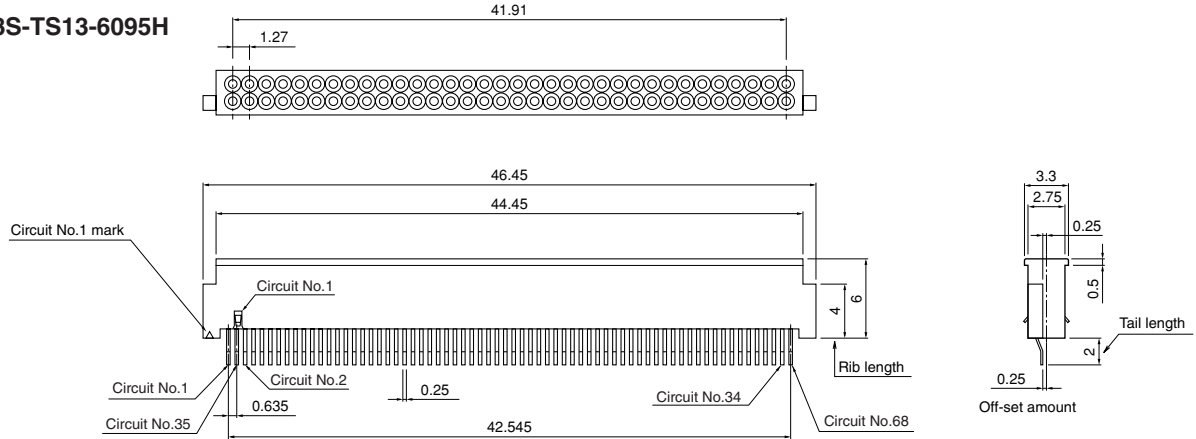
2. Not UL/CSA approved.

PC CARD CONNECTOR C TYPE

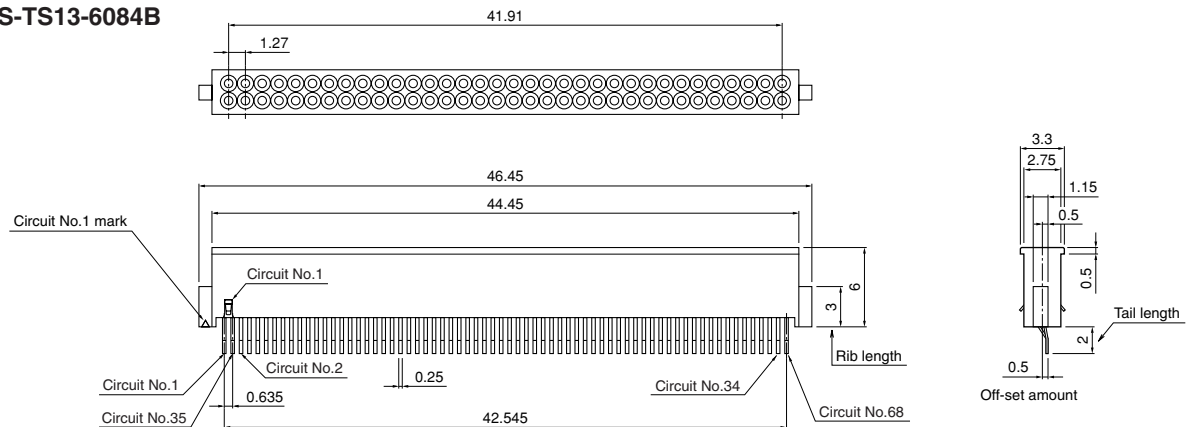
Socket

Single-row SMT type (with grounding spring)

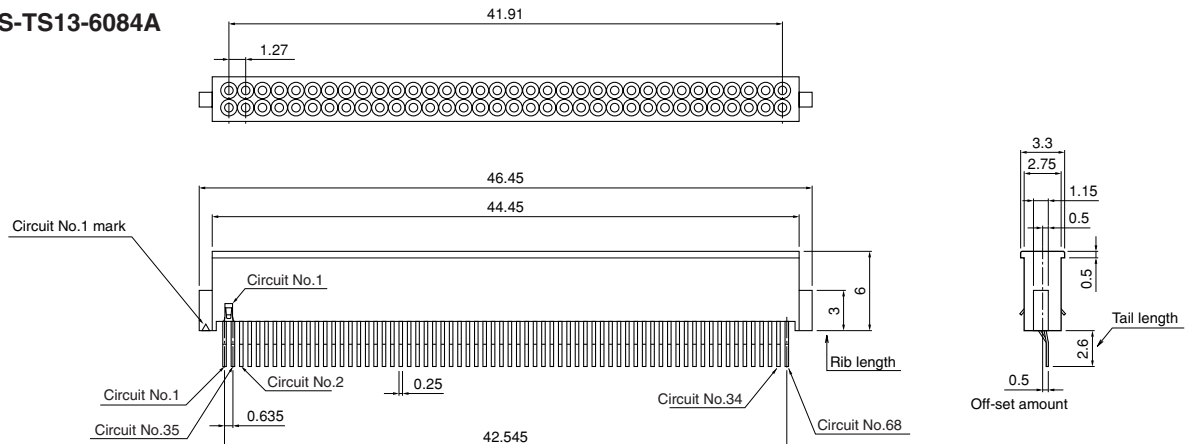
ICM-C68S-TS13-6095H



ICM-C68S-TS13-6084B



ICM-C68S-TS13-6084A



Circuits	Solder tail	Grounding spring	Off-set dimension(mm)	Rib length (mm)	Tail length (mm)	Model No.	Q'ty / box (Note 1)	Material and Finish
68	Single-row SMT type with grounding spring	With (Circuit No.1, No.35)	0.25	4.0	2.0	ICM-C68S-TS13-6095H	360	Contact: Copper alloy, nickel-undercoated, Mating part; gold-plated
			0.5	3.0	2.0	ICM-C68S-TS13-6084B	360	Solder tail; tin-plated (reflow treatment)
				3.0	2.6	ICM-C68S-TS13-6084A	360	Housing: LCP, UL94V-0, black Grounding spring: Copper alloy, nickel-undercoated, gold-plated

RoHS compliance This product displays (LF)(SN) on a label.

Note: 1. The products supplied on embossed-tape are also available.

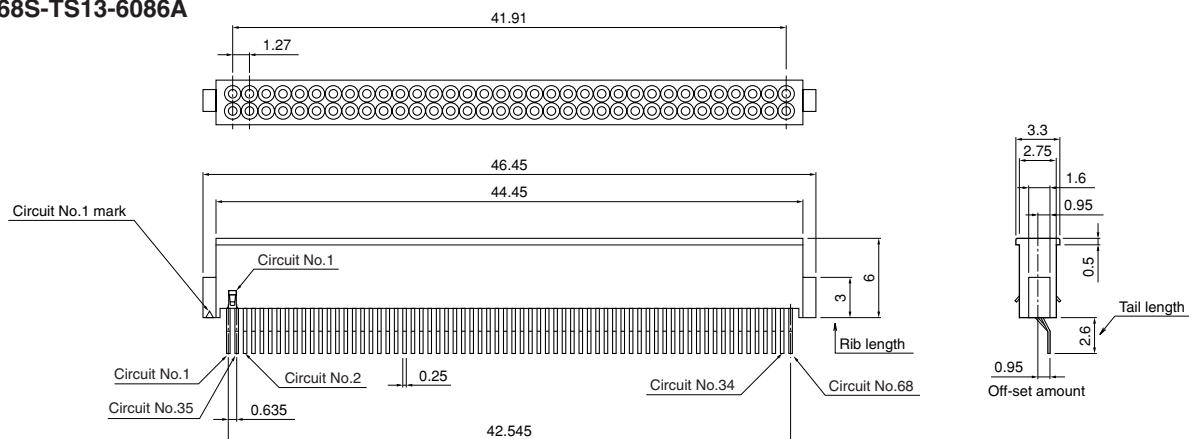
2. Not UL/CSA approved.

PC CARD CONNECTOR C TYPE

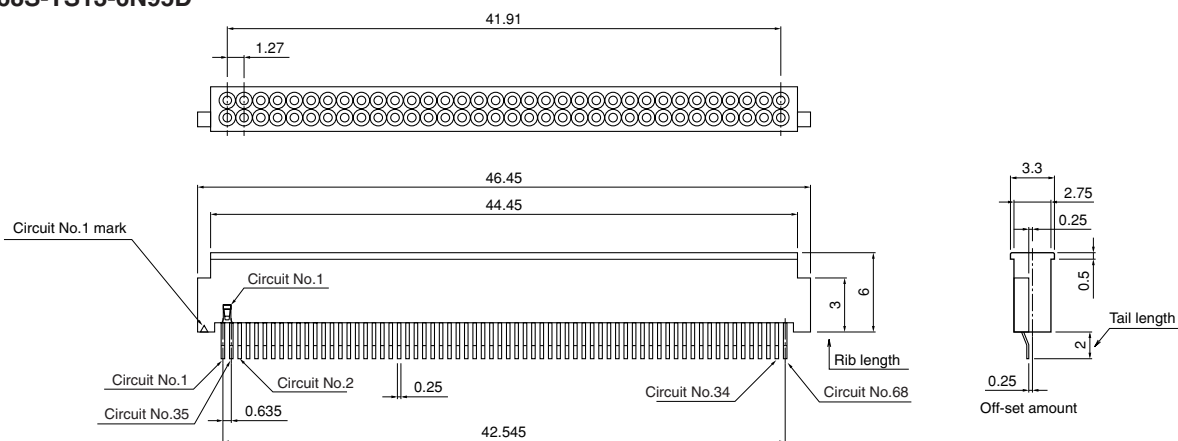
Socket

Single-row SMT type (with / without grounding spring)

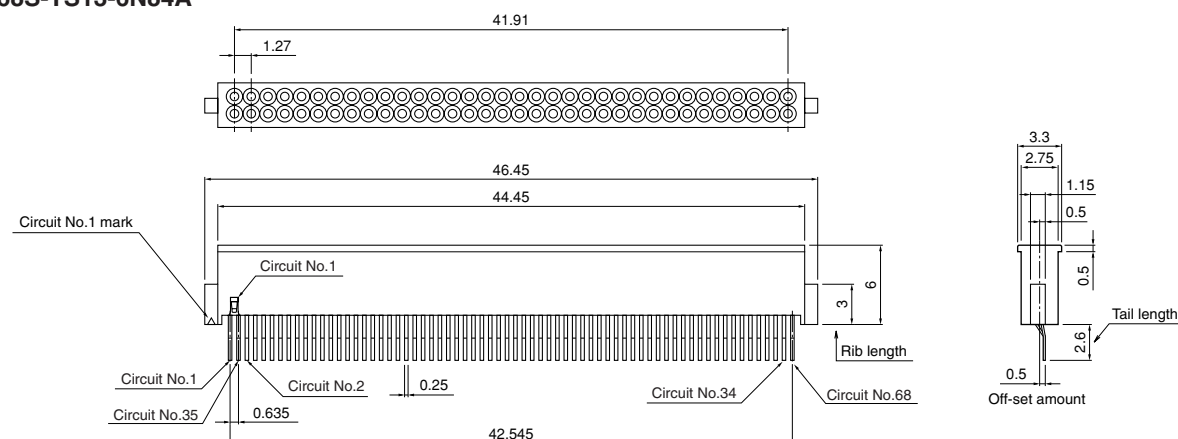
ICM-C68S-TS13-6086A



ICM-C68S-TS13-6N95D



ICM-C68S-TS13-6N84A



Circuits	Solder tail	Grounding spring	Off-set dimension(mm)	Rib length (mm)	Tail length (mm)	Model No.	Q'ty / box (Note 2)	Material and Finish
68	Single-row SMT type with / without grounding spring	With (Circuit No.1, No.35)	0.95	3.0	2.6	ICM-C68S-TS13-6086A	360	Contact: Copper alloy, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment)
		Without (Note 1)	0.25	3.0	2.0	ICM-C68S-TS13-6N95D	360	Housing: LCP, UL94V-0, black Grounding spring: Copper alloy, nickel-undercoated, gold-plated
			0.50	3.0	2.6	ICM-C68S-TS13-6N84A	360	Contact: Copper alloy, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment)
								Housing: LCP, UL94V-0

RoHS compliance This product displays (LF)(SN) on a label.

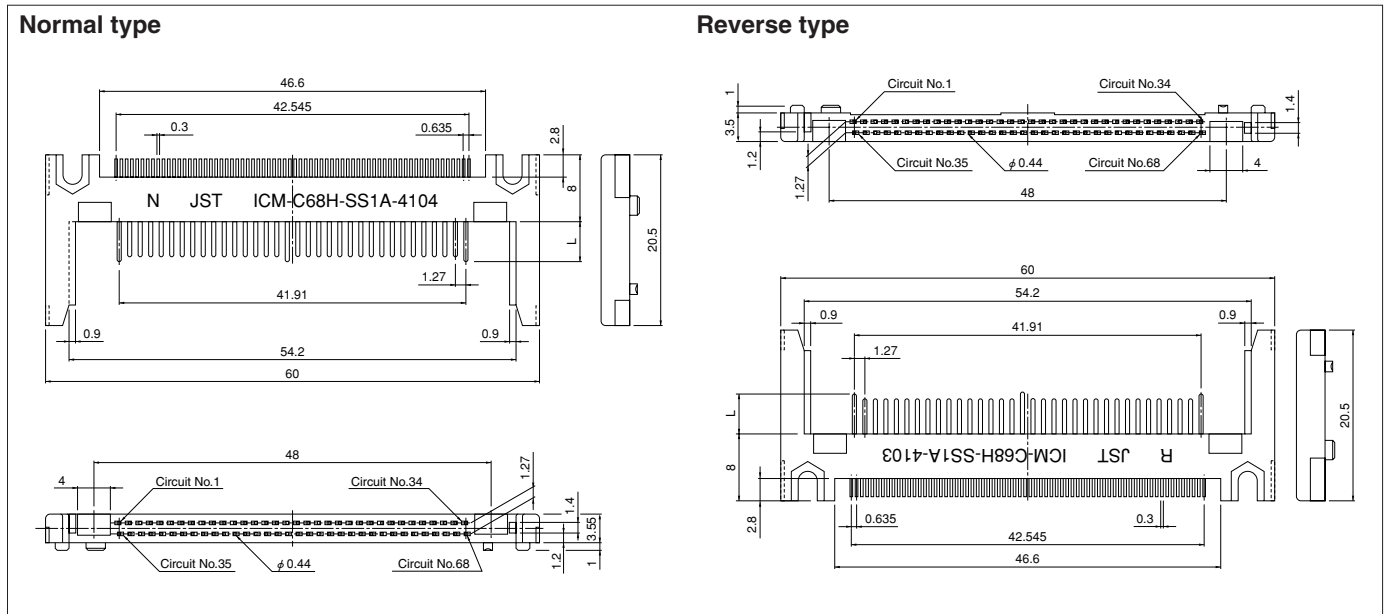
Note: 1. Grounding springs are not installed.

2. The products supplied on embossed-tape are also available.

3. Not UL/CSA approved.

PC CARD CONNECTOR C TYPE

Header / SMT type (for Type I cards)

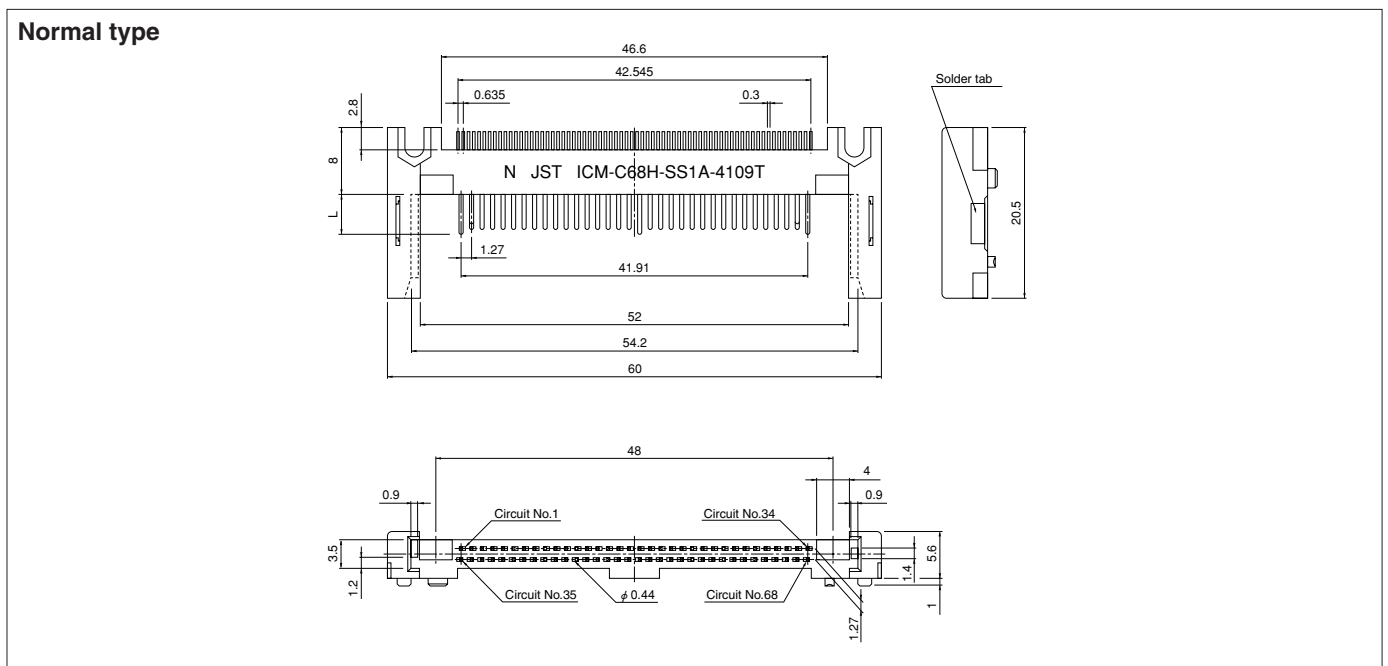


Circuits	Type	Model No.	Q'ty / box	Material and Finish
68	Normal	ICM-C68H-SS1A-4104	110	Contact: Phosphor bronze, nickel-undercoated, Mating part; gold-plated
	Reverse	ICM-C68H-SS1A-4103		Solder tail; tin-plated (reflow treatment) Housing: PPS, UL94V-0, natural

RoHS compliance This product displays (LF)(SN) on a label.

Dimension L	
Circuit No.	Dimensions (mm)
1, 17, 34, 35, 51, 68	5.0 ±0.1
2 to 16, 18 to 33, 37 to 50, 52 to 66	4.25 ±0.1
36, 37	3.5 ±0.1

Header / SMT type (for Type II cards)



Circuits	Type	Model No.	Q'ty / box	Material and Finish
68	Normal	ICM-C68H-SS1A-4109T	80	Contact: Phosphor bronze, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment) Housing: PPS, UL94V-0, natural Solder tab: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)

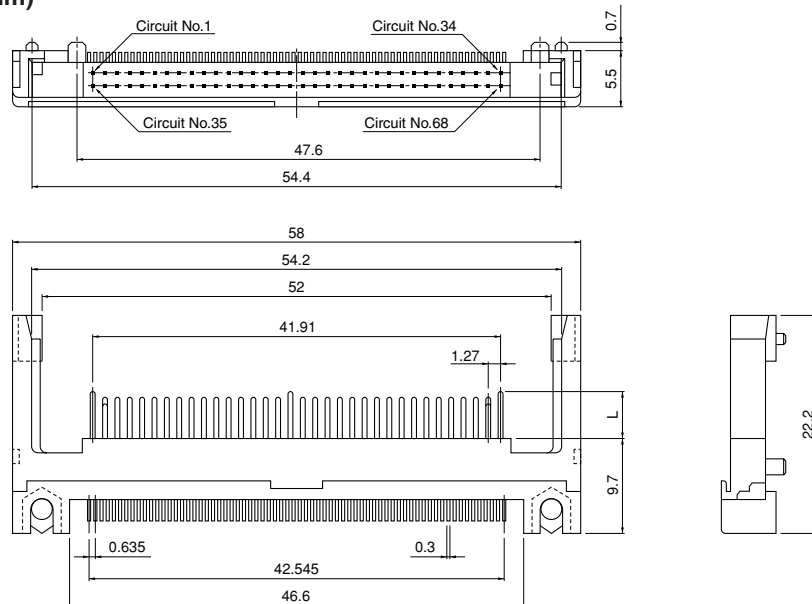
RoHS compliance This product displays (LF)(SN) on a label.

Dimension L	
Circuit No.	Dimensions (mm)
1, 17, 34, 35, 51, 68	5.0 ±0.1
2 to 16, 18 to 33, 37 to 50, 52 to 66	4.25 ±0.1
36, 37	3.5 ±0.1

PC CARD CONNECTOR C TYPE

Header / SMT type for 3.3V (for Type III cards)

Reverse type (Stand off 0mm)



Circuits	Type	Model No.	Q'ty / box	Material and Finish
68	Reverse	ICM-C68H-S112-400R1	90	Contact: Phosphor bronze, nickel-undercoated, Mating part: gold-plated Solder tail: tin-plated (reflow treatment) Housing: PA6T, UL94V-0, black

Dimension L

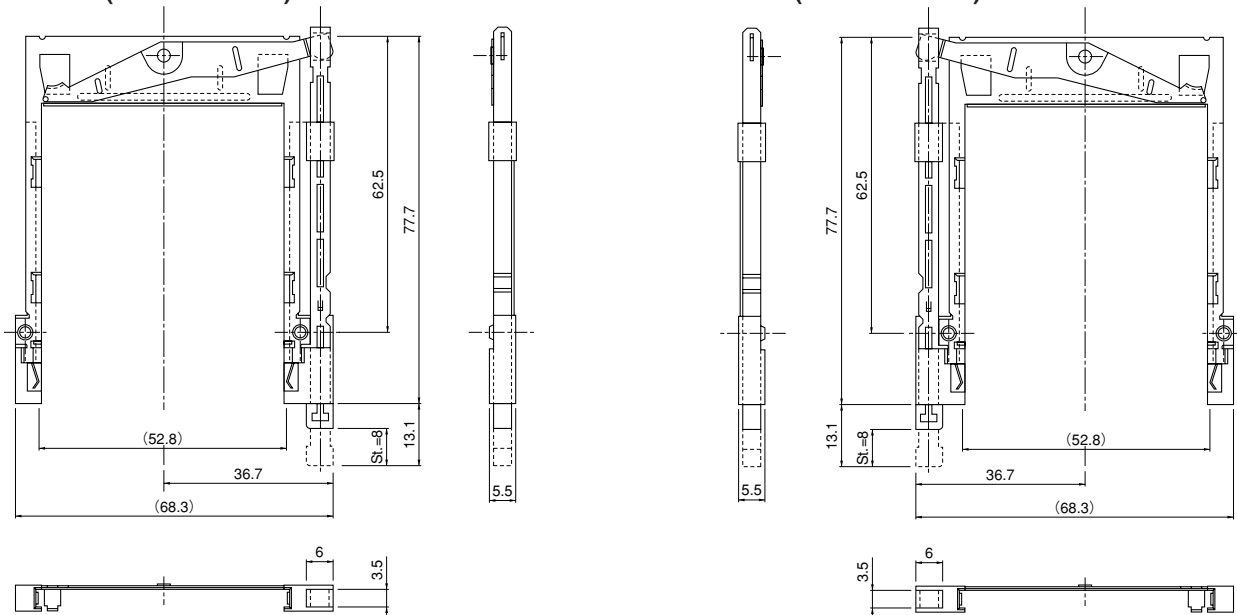
Circuit No.	Dimensions (mm)
1, 17, 34, 35, 51, 68	5.0 ±0.1
2 to 16, 18 to 33, 37 to 50, 52 to 66	4.25 ±0.1
36, 37	3.5 ±0.1

RoHS compliance This product displays (LF)(SN) on a label.
Not UL/CSA approved.

Ejector / SMT type (for Type III cards)

Right button (Stand off 0mm)

Left button (Stand off 0mm)



Stand off	Type	Model No.	Applicable header	Q'ty / box	Material and Finish
0 mm	Right button	ICME-C68R-300HA	ICM-C68H-S112-400R1	20	Guide bar, Push bar: PBT, UL94V-0 Frame, Rotating arm: Stainless Eyelet: Copper alloy
	Left button	ICME-C68L-300HA			

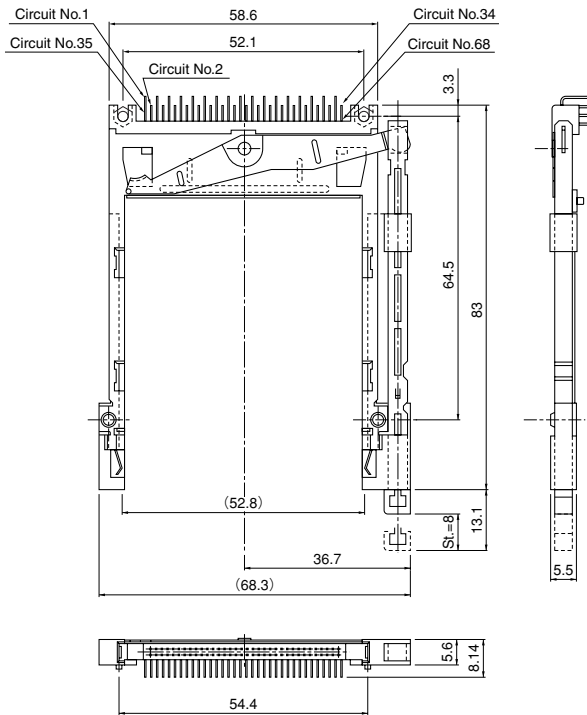
RoHS compliance Ejector displays —A on a label. (— shows space.)
Application header displays (LF)(SN) on a label.

Not UL/CSA approved.

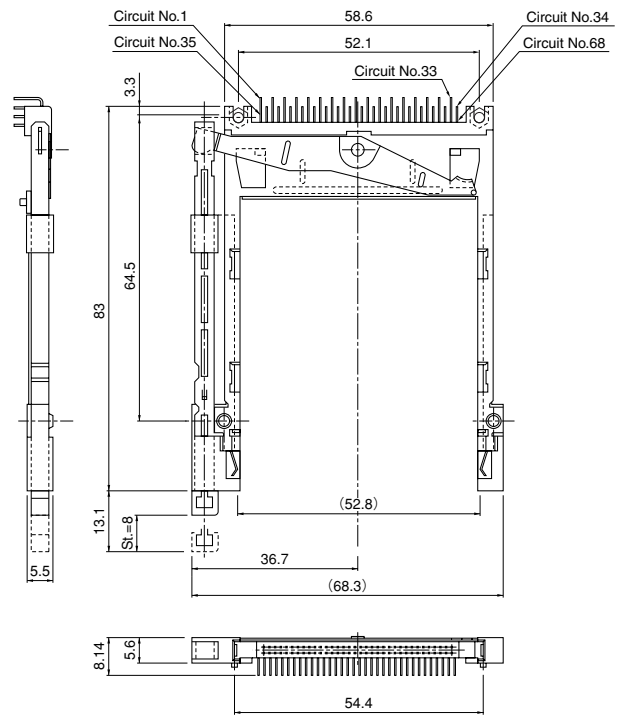
PC CARD CONNECTOR C TYPE

Ejector mounted header / Through-hole type for 3.3V (for Type III cards)

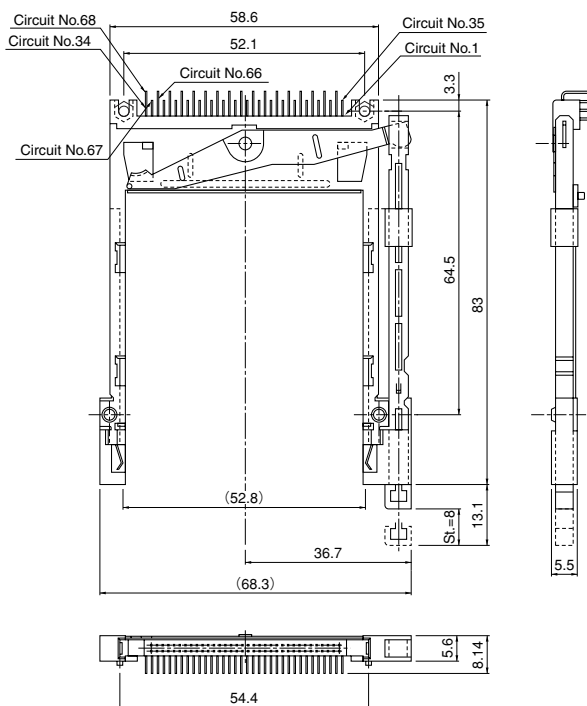
Right button (Stand off 0mm) Normal



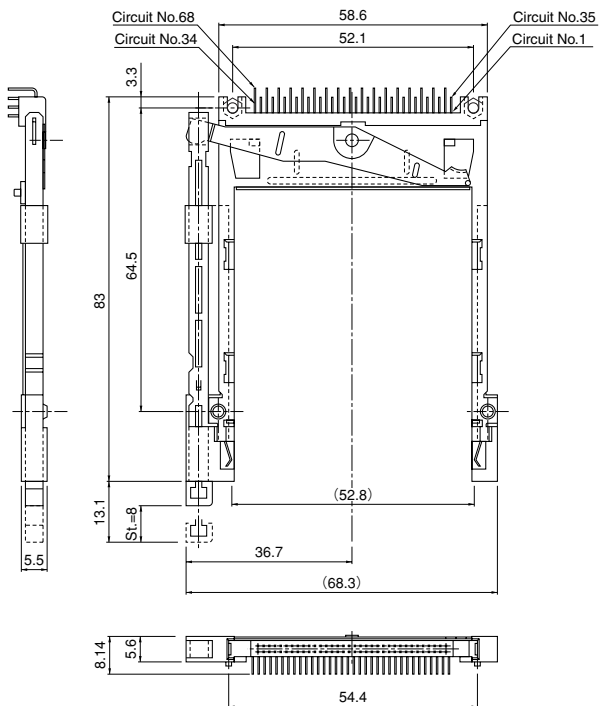
Left button (Stand off 0mm) Normal



Right button (Stand off 0mm) Reverse



Left button (Stand off 0mm) Reverse



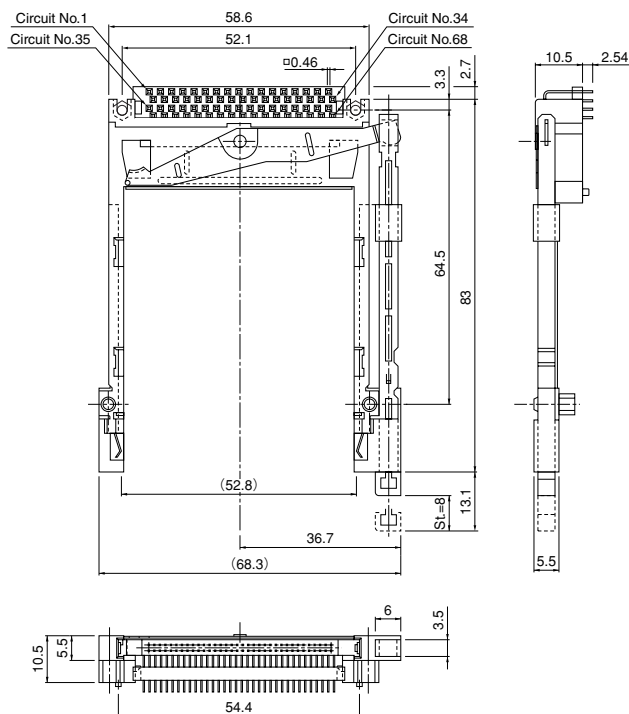
Type		Model No.	Q'ty / box	Material and Finish	
Normal	Right button	ICME68H-R0-D1120NHA	—	Contact: Phosphor bronze, nickel-undercoated, Mating part: gold-plated Solder tail: tin-plated (reflow treatment) Housing: PBT, UL94V-0	Guide bar: PBT, UL94V-0 Frame: Stainless Rotating arm: Stainless Push bar: PBT, UL94V-0 Eyelet: Copper alloy
	Left button	ICME68H-L0-D1120NHA			
Reverse	Right button	ICME68H-R0-D1120RHA	—		
	Left button	ICME68H-L0-D1120RHA			

RoHS compliance This product displays (LF)(SN) A on a label.
Not UL/CSA approved.

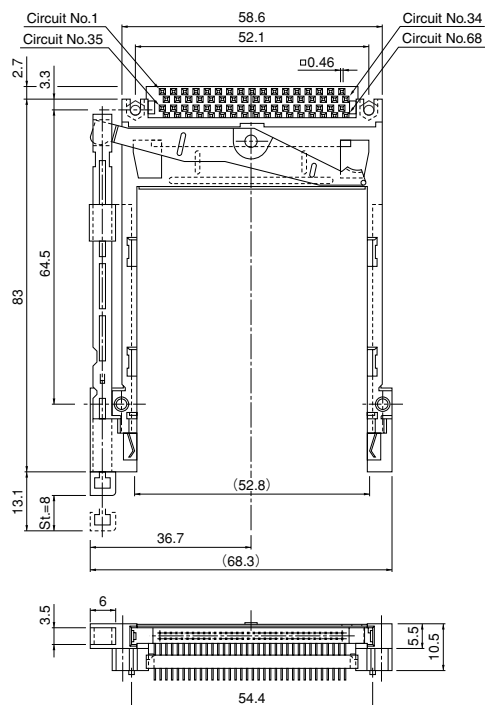
PC CARD CONNECTOR C TYPE

Ejector mounted header / Through-hole type for 3.3V (for Type III cards)

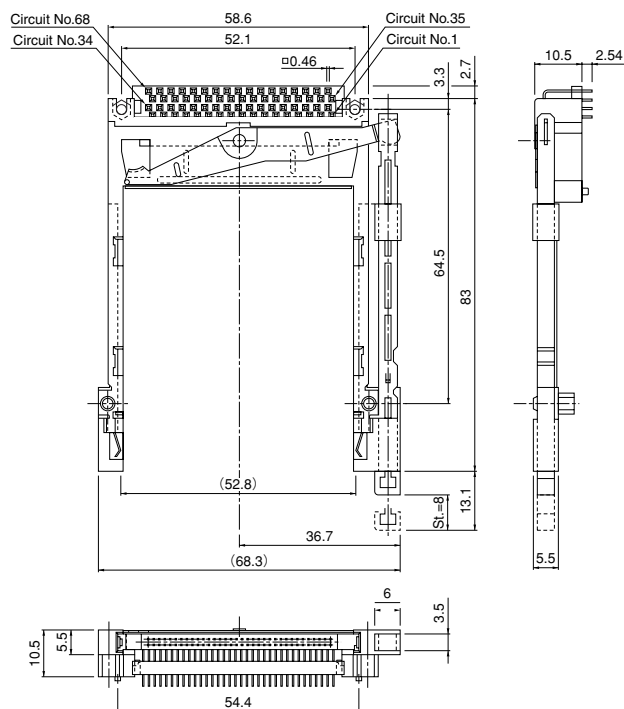
Right button (Stand off 5mm) Normal



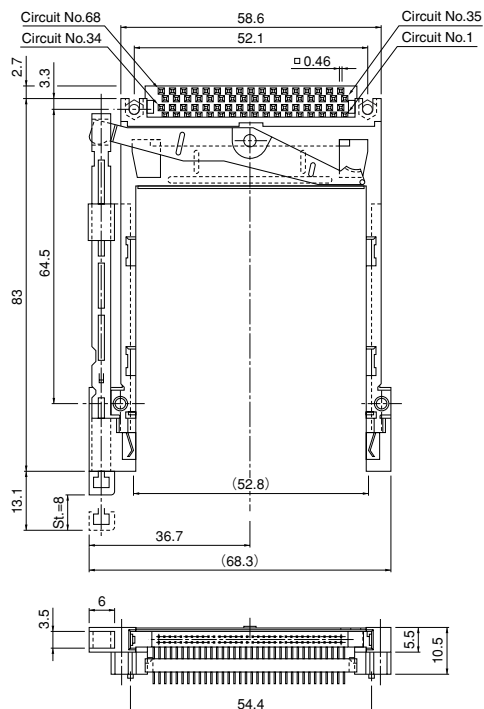
Left button (Stand off 5mm) Normal



Right button (Stand off 5mm) Reverse



Left button (Stand off 5mm) Reverse



Type	Model No.	Q'ty / box	Material and Finish	
Normal	Right button ICME68H-R0-D1121NHA	—	Contact: Phosphor bronze, nickel-undercoated, Mating part: gold-plated Solder tail: tin-plated (reflow treatment) Housing: PBT, UL94V-0 Locator: PBT, UL94V-0	Guide bar: PBT, UL94V-0 Frame: Stainless Rotating arm: Stainless Push bar: PBT, UL94V-0 Eyelet: Copper alloy
	Left button ICME68H-L0-D1121NHA			
Reverse	Right button ICME68H-R0-D1121RHA	—		
	Left button ICME68H-L0-D1121RHA			

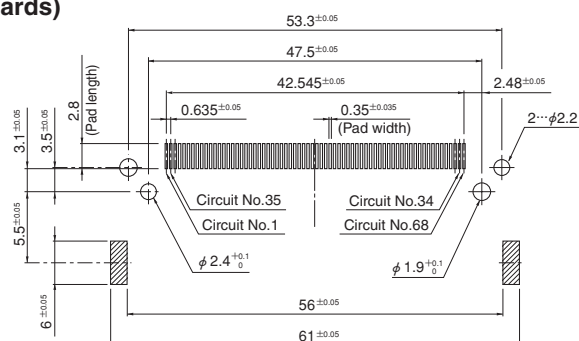
RoHS compliance This product displays (LF)(SN) A on a label.
Not UL/CSA approved.

PC CARD CONNECTOR C TYPE

PC board layout (viewed from component side)

Header/SMT type (for Type I ,II cards)

(Refer to Note 2 below)



Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.

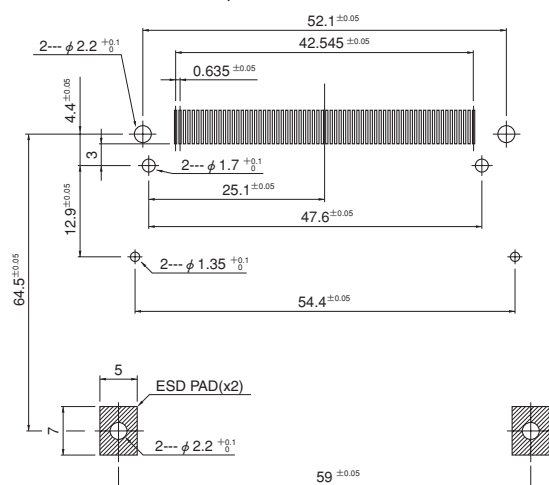
2. This layout is applied to the headers Model Nos. ICM-C68H-SS1A-4103/-4104/-4108T/-4109T.

3. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

PC board layout (viewed from component side)

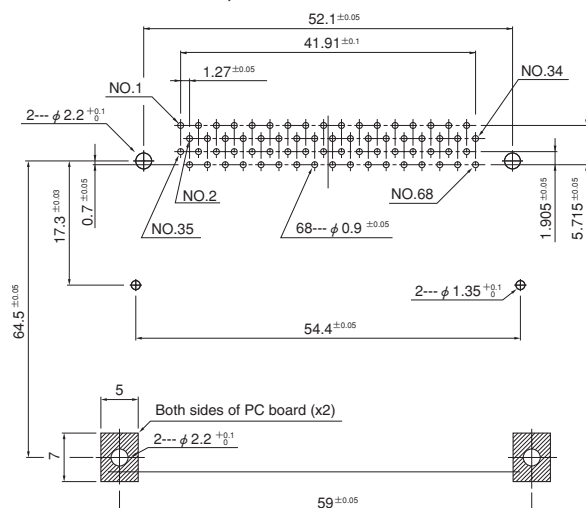
SMT type/Stand off 0mm Type III cards

(Refer to Note 3 below)



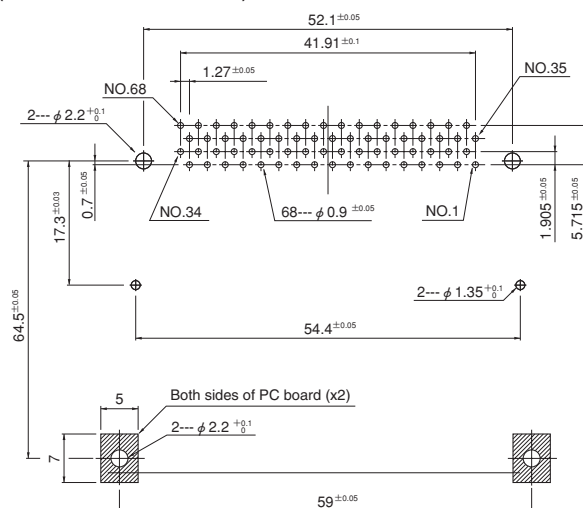
Through-hole type/Type III cards Normal type

(Refer to Note 4 below)



Through-hole type/Type III cards Reverse type

(Refer to Note 5 below)



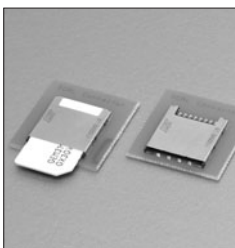
Note: 1. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

1. Hole dimensions differ according to the kind of PCB board.
2. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.

3. This layout is applied to the header Model No. ICM-C68H-S112-400R1 and to ejectors Model No. ICME-C68L-300HA/C68R-300HA.

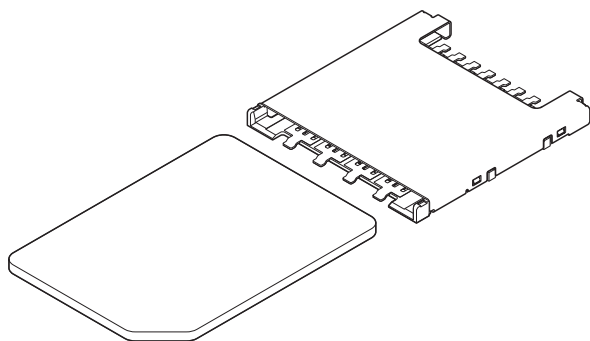
4. This layout is applied to the ejector mounted headers Model No. ICME68H-R0-D1120NHA/L0-D1120NHA/R0-D1121NHA/L0-D1121NHA.

5. This layout is applied to the ejector mounted headers Model No. ICME68H-R0-D1120RHA/L0-D1120RHA/R0-D1121RHA/L0-D1121RHA.



SCRL CONNECTOR

For SIM card Push-Pull type



A manual insertion type connector for SIM card and Mini B-CAS card used in mobile phone

Low profile type connector with mounting height of 1.3mm

- 8-circuit is also available in addition to 6-circuit of a standard.
- Adoption of two points contact structure

Specifications

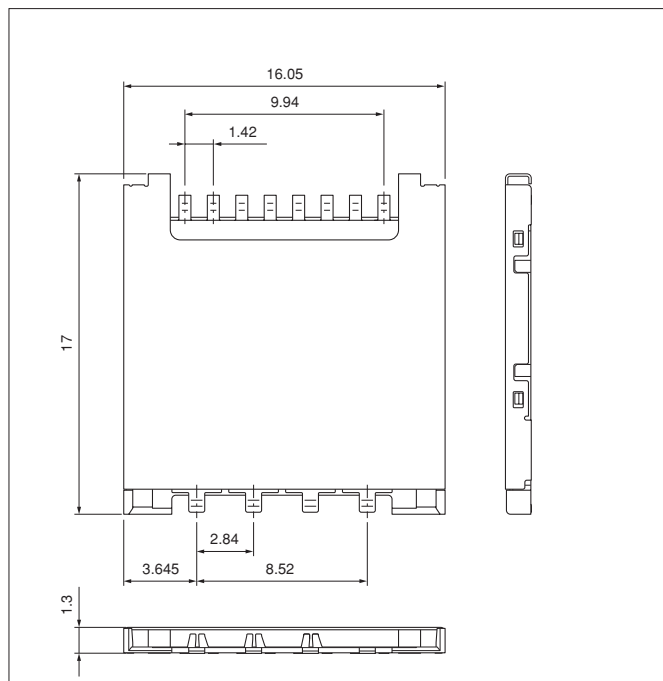
- Current rating: 0.7 A AC, DC
- Voltage rating: 30 V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 80 mΩ max.
After environmental tests/ 80 mΩ max.
(variation from initial value)
- Insulation resistance: 500 MΩ min.
- Withstanding voltage: Initial; 500 VAC/minute
After humidity test; 300 VAC/minute
- Applicable card: Plug-in UICC card

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

* Compliant with RoHS.

Connector



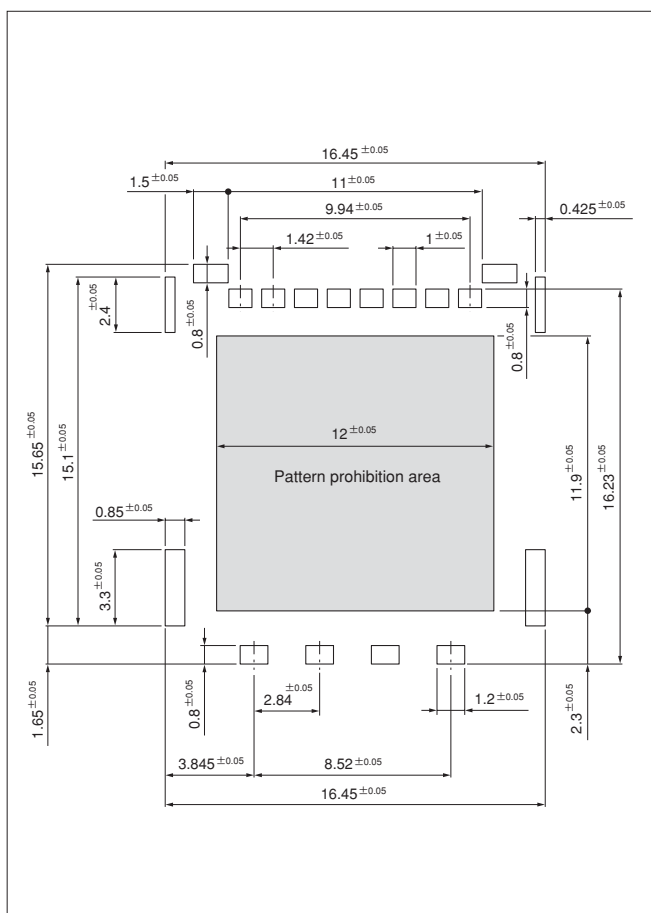
Model No.	Q'ty / reel
SCRL-6S-1K-03-ETB(HF)(N1)	1,500

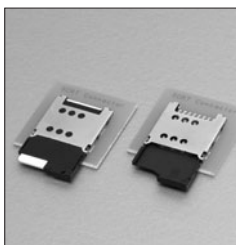
Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated
Housing: Heat resisting resin, black
Shell: Stainless, nickel-undercoated, gold-plated

RoHS compliance This product displays (HF)(N1) on a label.
The product listed above are supplied on embossed-tape.

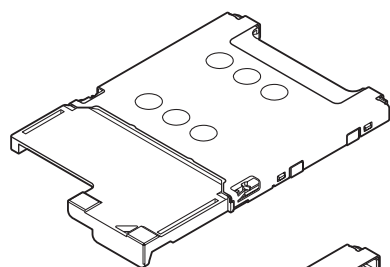
PC board layout



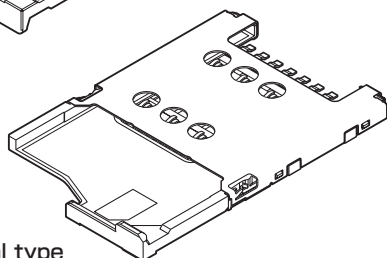


SCRT CONNECTOR

For Micro SIM card Tray type



Reverse type



Normal type

A tray type connector for SIM card Mini B-CAS card used in mobile phone
Low profile type connector with mounting height of 1.45mm

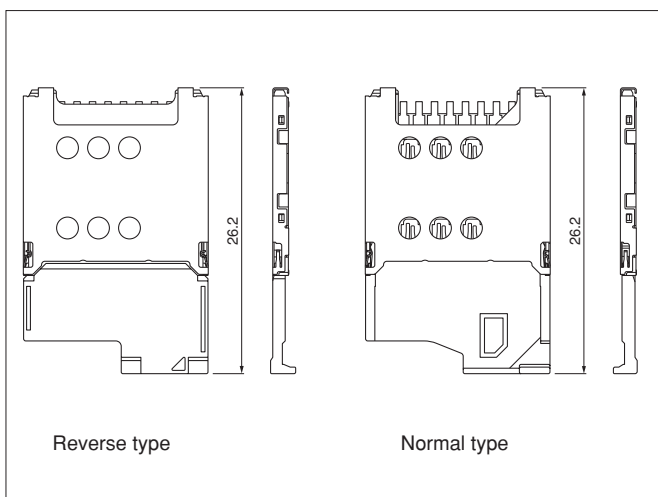
- 8-circuit is also available in addition to 6-circuit of a standard.
- Common use for normal and reverse types
- Adoption of two points contact structure

Specifications

- Current rating: 0.7 A AC, DC
- Voltage rating: 30 V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 80 mΩ max.
After environmental tests/ 80 mΩ max.
(variation from initial value)
- Insulation resistance: 500 MΩ min.
- Withstanding voltage: Initial; 500 VAC/minute
After humidity test; 300 VAC/minute
- Applicable card: Plug-in UICC card

- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Compliant with RoHS.

Connector



Reverse type

Normal type

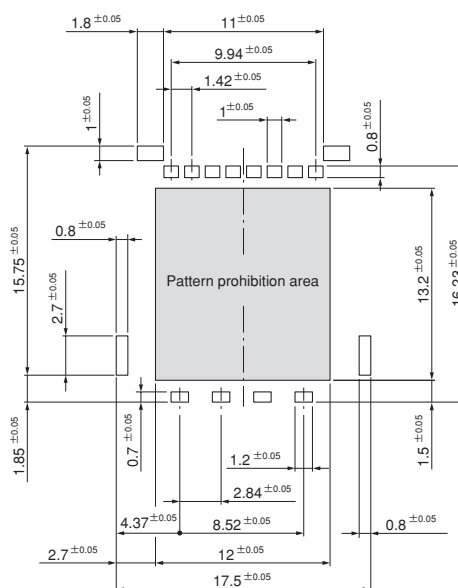
	Type	Model No.	Q'ty
Normal	Embossed product	SCRT-6NS-1K-03-ETB(HF)	1,500
	Tray-packed product	SCRT-NTH-1K-SH-R(HF)	300
Reverse	Embossed product	SCRT-6RS-1K-03-ETB(HF)	1,500
	Tray-packed product	SCRT-RTH-1K-SH-R(HF)	300

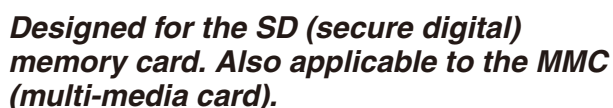
Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated
Housing: Heat resisting resin, black
Shell: Stainless, nickel-undercoated, gold-plated
Tray: Resin, black

RoHS compliance This product displays (HF) on a label.
The products listed above are supplied on embossed-tape.

PC board layout



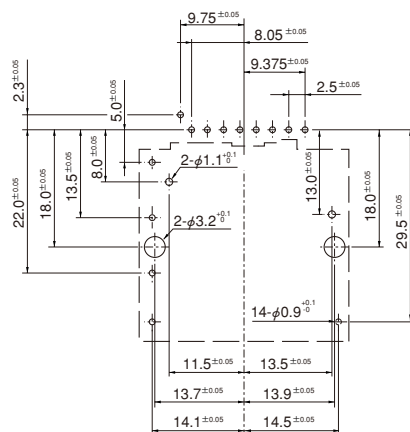


- ***Push-push mechanism***
- ***Card-detection switch***
- ***Static electricity shielding***

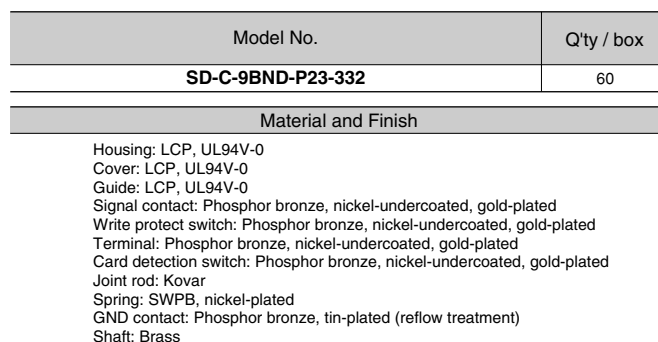
Specifications

- Current rating: 0.5A AC, DC
- Voltage rating: 5V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/50m Ω max. (signal part)
After environmental testing/80m Ω max. (signal part)
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 500V AC/minute
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

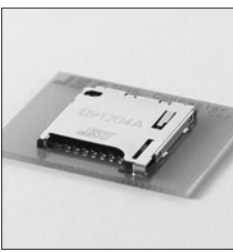
PC board layout



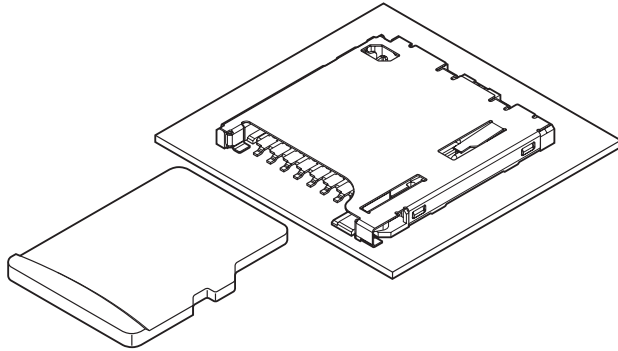
Connector



RoHS compliance



SDHL CONNECTOR

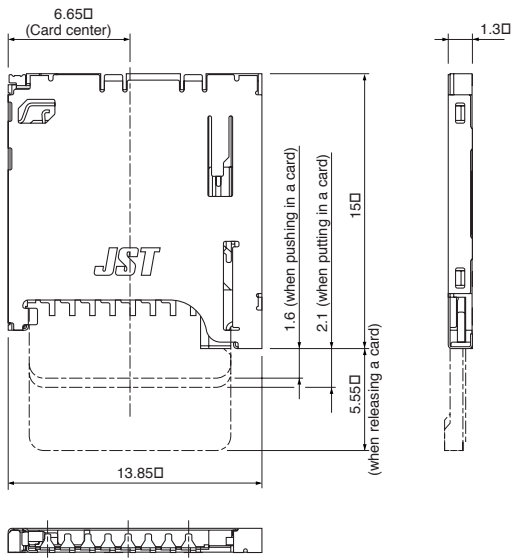


This is the connector for micro-SD card connector in which mounting height of 1.4mm maximum is kept and push-push mechanism is adopted.

Specifications

- Current rating: 0.5A AC, DC
- Voltage rating: 100V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/100m Ω max.
After environmental testing/40m Ω max.
(variation from initial value)
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 500V AC/minute
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Connector



Model No.	Q'ty / reel
SDHL-8BNS-K-363-A0-TB (HF) N	1,500
SDHL-8BNS-K-363-A0-ETB (HF)	1,500

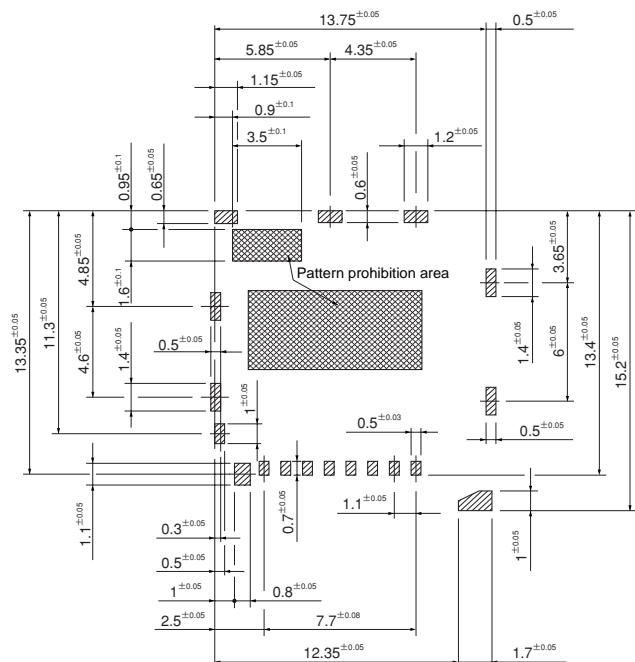
Material and Finish

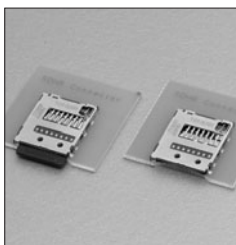
Contact, Switch: Copper alloy, nickel-undercoated, nickel-palladium alloy-plated
Switch for signal: Mating part; gold-plated
Solder tail; gold-plated
Shell: Stainless, nickel-undercoated, selective gold-plated

RoHS compliance

Note: This products listed above are supplied on embossed-tape.

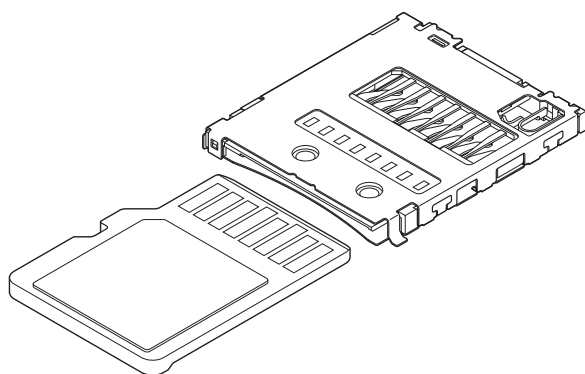
PC board layout





SDHR CONNECTOR

For Micro SD card Push-Push type



This is the connector for micro SD card in which mounting height of 1.45mm maximum is kept and push-push mechanism is adopted.

Specifications

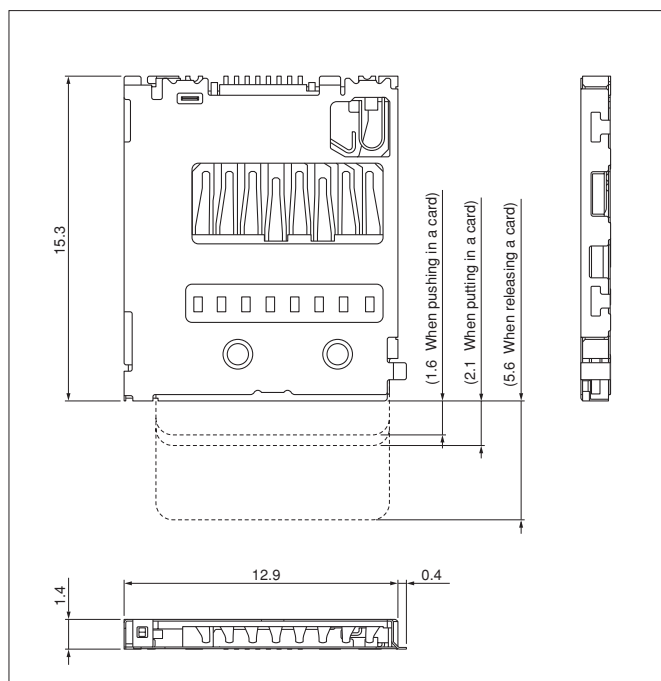
- Current rating: 0.5 A AC, DC
- Voltage rating: 100 V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 100 mΩ max.
After environmental tests/ 80 mΩ max.
(variation from initial value)
- Insulation resistance: 1,000 MΩ min.
- Withstanding voltage: Initial; 500 VAC/minute
After humidity test; 300 VAC/minute
- Applicable card: Micro SD card

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

* Compliant with RoHS.

Connector

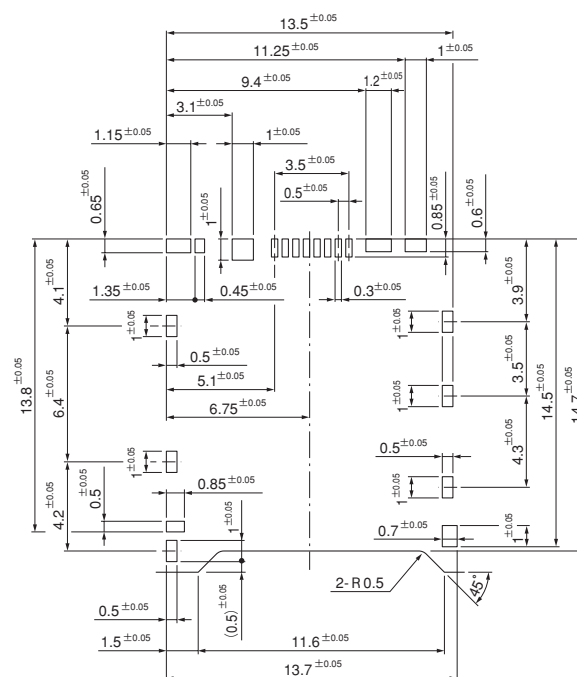


Model No.	Q'ty / reel
SDHR-8BRS-K-363-A0-P-ETB(HF)	2,000

Material and Finish

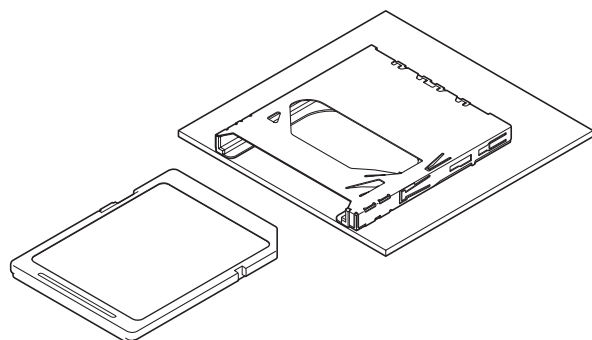
Contact: Copper alloy, nickel-undercoated, gold-plated
Housing: Heat resisting resin, black
Shell: Stainless, nickel-undercoated, gold-plated
Card stopper, Crank pin, Spring: Stainless

PC board layout

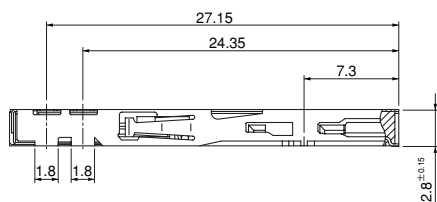


*Connector mounted area is pattern prohibition.

RoHS compliance This product displays (HF) on a label.
The product listed above are supplied on embossed-tape.



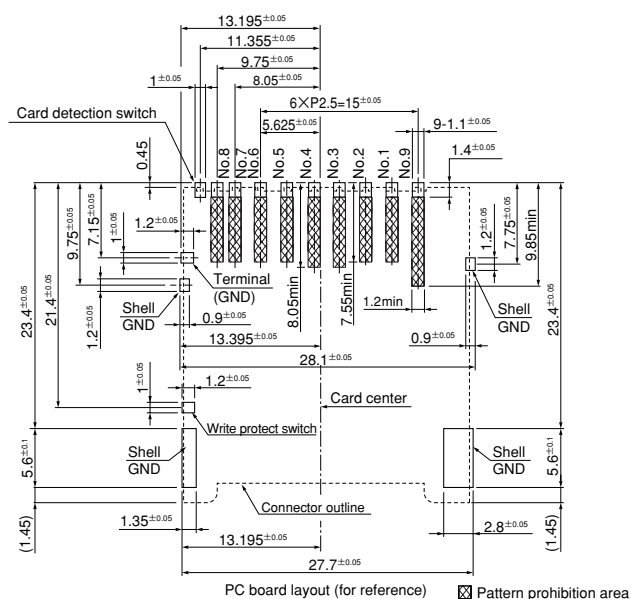
- ***Space saving design***
- ***The amount of card ejection***
- ***Outstanding durability***
- ***Prevention of reverse card insertion***



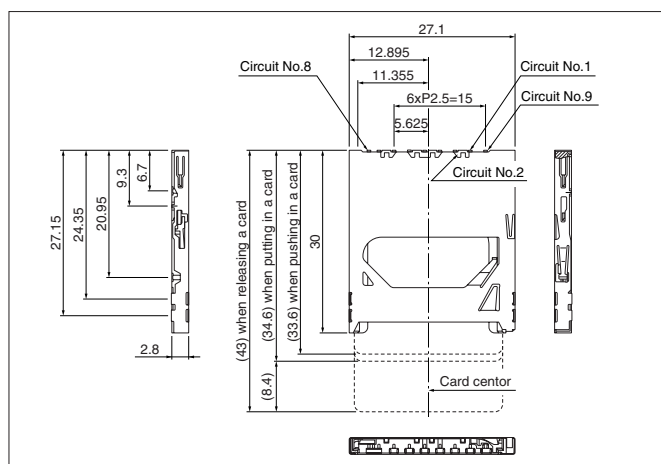
Specifications

- Current rating: 0.5A AC, DC
- Voltage rating: 5V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Recommendatory PC board thickness: 0.6mm to 1.0mm
[When it is mounted on the FPC, recommendable reinforcing layer thickness is 0.6mm min.]
- Contact resistance:
(Signal part) Initial value/ 30m Ω max.
After environmental testing/ 60m Ω max.
(Switch part) Initial value/ 100m Ω max.
After environmental testing/ 100m Ω max.
- Insulation resistance: 1,000M Ω min. at 500V DC
- Withstanding voltage: 500V AC/minute

* Contact JST for details.



Connector

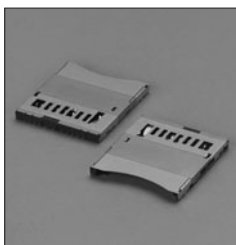


Model No.	Q'ty / reel
SDK-9BNS-K13-GS-TB	450
Material and Finish	

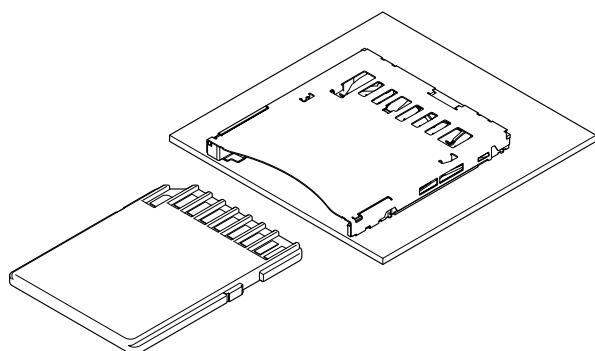
Material and Finish

Housing, Guide: Heat resisting resin, UL94V-0
Contact: Copper alloy, nickel-undercoated,
selective gold-plated, selective tin-plated (reflow treatment)
Terminal: Copper alloy, nickel-undercoated, gold-plated
Card detection switch: Copper alloy, nickel-undercoated, gold-plated
Write protect switch: Copper alloy, nickel-undercoated,
selective gold-plated, selective tin-plated (reflow treatment)
Card lock: Copper alloy, tin-plated
Joint rod, Spring: SUS
Shell: SUS, Solder tail/ selective nickel-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.
Note: This products listed above are supplied on embossed-tape.



SDK CONNECTOR Reverse Type



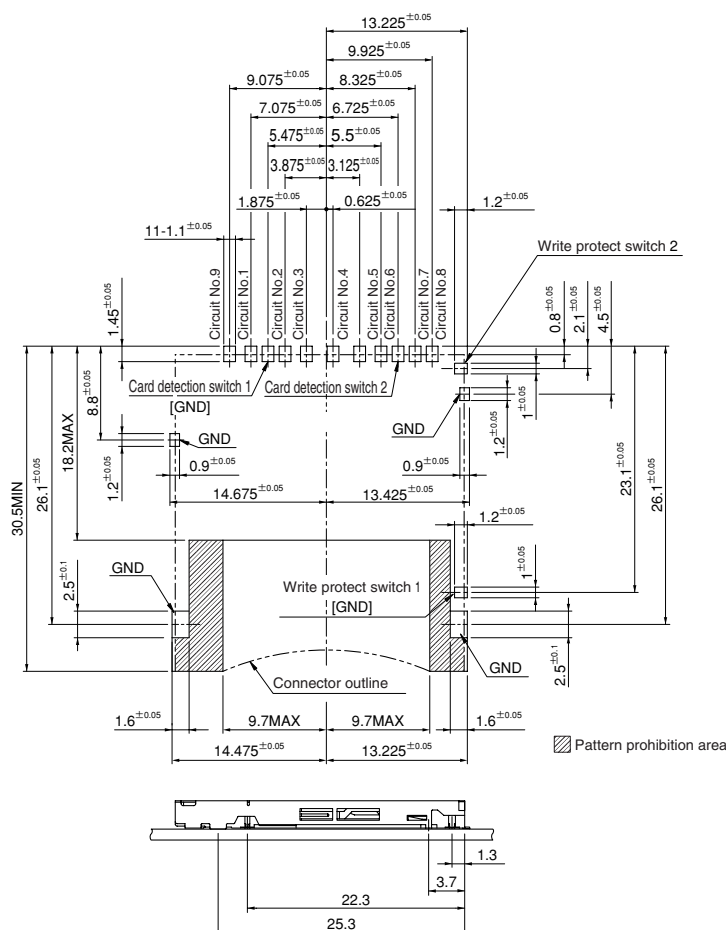
This connector is designed for SD Card & MMC (Multi media card), complying with the SD Card Association standard, and is with the switch for Write-protection & Card-detection. And due to Push-push mechanism design, its card can be easily ejected by push-push operation.

- Space saving design,
27.1mm(W) × 30.1mm(D) × 2.8mm(H)
- The enough amount of card ejection (8.4mm)
- 10,000 mating cycles is guaranteed.
- Prevention of reverse card insertion

Specifications

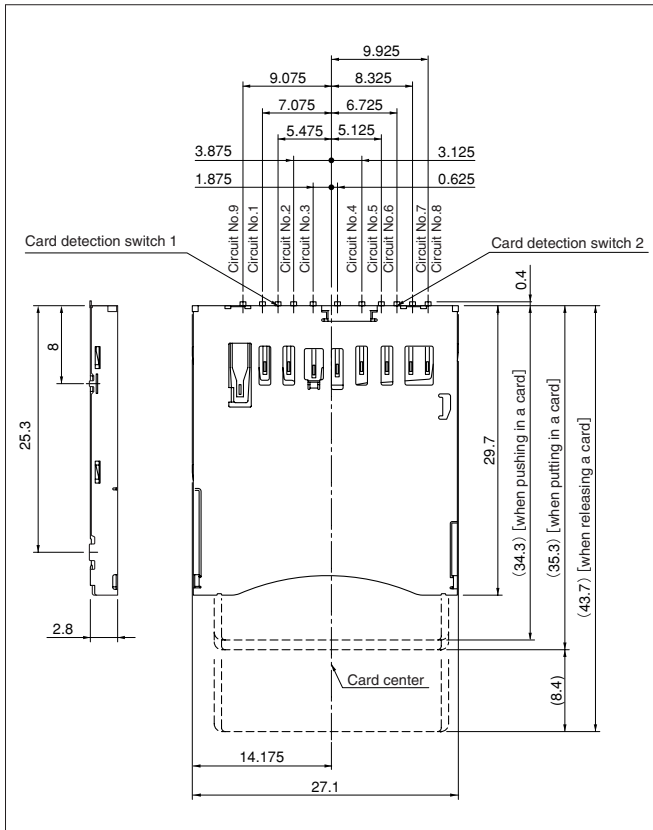
- Current rating: 0.5A AC, DC
- Voltage rating: 5V AC, DC
- Temperature range: 25°C to +85°C
(including temperature rise in applying electrical current)
- Recommended PC board thickness: 0.6 to 1.0mm
[When it is mounted on the FPC, recommendable reinforcing layer thickness is 0.6mm min.]
- Contact resistance:
(Signal part) Initial value/30m Ω max.
After environmental testing/60m Ω max.
(Switch part) Initial value/100m Ω max.
After environmental testing/100m Ω max.
- Insulation resistance: 1,000M Ω min. at 500V DC
- Withstanding voltage: 500V AC/minute
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

PC board layout (viewed from component side) and Assembly layout



SDK CONNECTOR Reverse Type

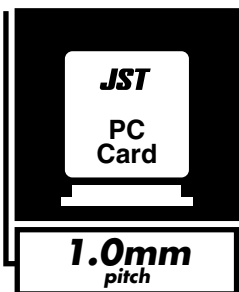
Connector



Model No.	Q'ty / reel
SDKR-9BRS-K13-G-TB	450

Material and Finish
Housing, Guide: Heat resisting resin, UL94V-0
Contact: Copper alloy, nickel-undercoated, selective gold-plated
Card detection switch: Copper alloy, nickel-undercoated, gold-plated
Write protect switch: Copper alloy, nickel-undercoated, selective gold-plated, selective tin-plated (reflow treatment)
Card lock, Joint rod, Spring: Stainless
Shell: Stainless, nickel-undercoated, selective tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.



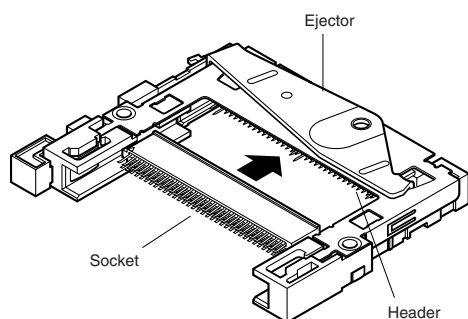
SMALL PC CARD CONNECTOR MB TYPE



68-circuit Small PC card connector



1.0mm pitch 68-circuit dual-row connector for small PC card, conforming to PCMCIA/JEIDA standard.



Features

• Socket

Socket is of straddle-type, designed to accommodate PC board between the two solder tail rows.

• Header

Header is with stand-off 0mm, available in both normal and reverse types.

• Ejector

Ejector is, with the left button, to be assembled (with screws) after header is mounted. The frame has the contact point for the grounding clip on the small PC card.

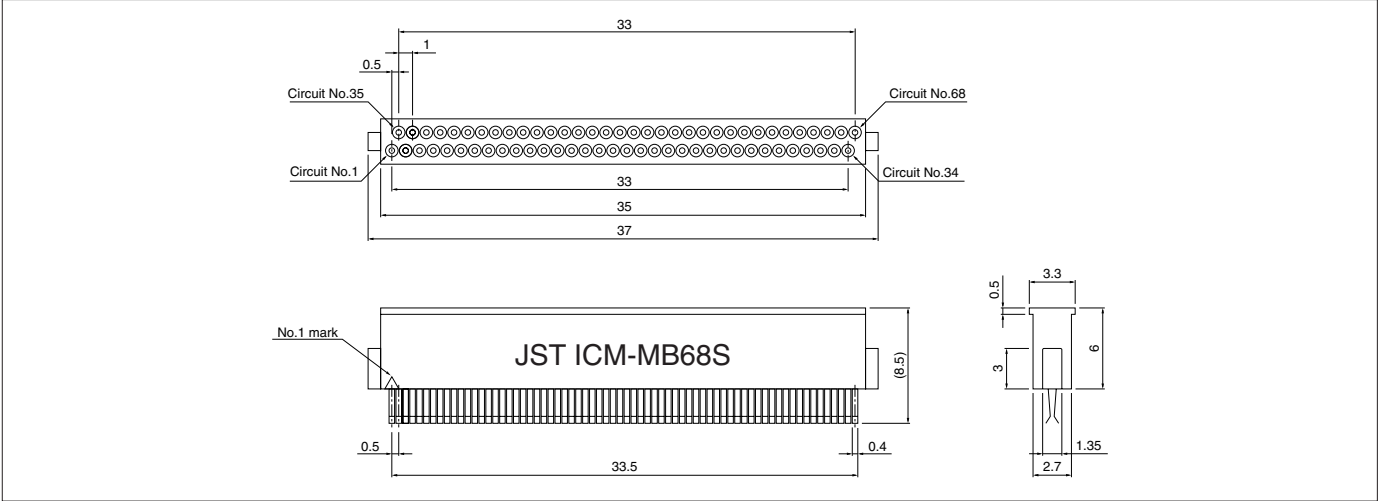
<Card frame (for types I & II cards)>

Specifications

- Current rating: 0.5A AC, DC/line
- Temperature range: -40°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/40m Ω max.
After environmental testing/max.
20m Ω variation from initial value.
- Withstanding voltage: 500V AC/minute
- Insulation resistance: 1,000M Ω min.(initial)
- Mating/unmating life: 10,000 cycles
- Circuits: 68-circuits
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

SMALL PC CARD CONNECTOR MB TYPE

Socket

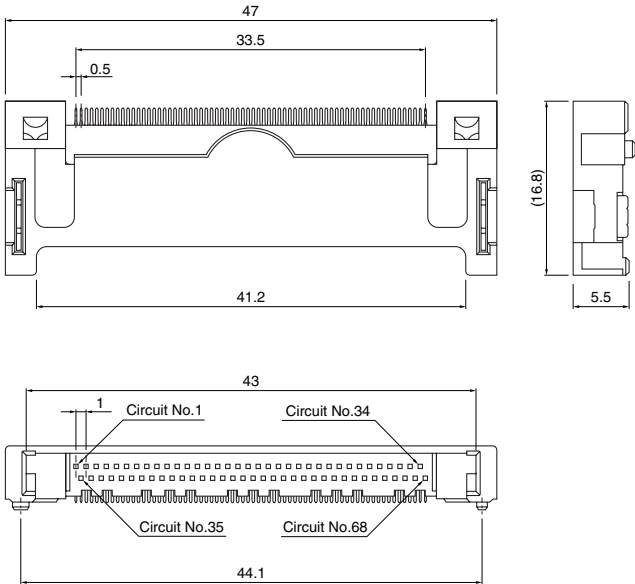


Circuits	Model No.	Q'ty / box	Material and Finish
68	ICM-MB68S-TS13-5000A	600	Contact: Beryllium copper, Mating part: gold-plated Solder tail: tin-plated (reflow treatment) Housing: PA6T, UL94V-0

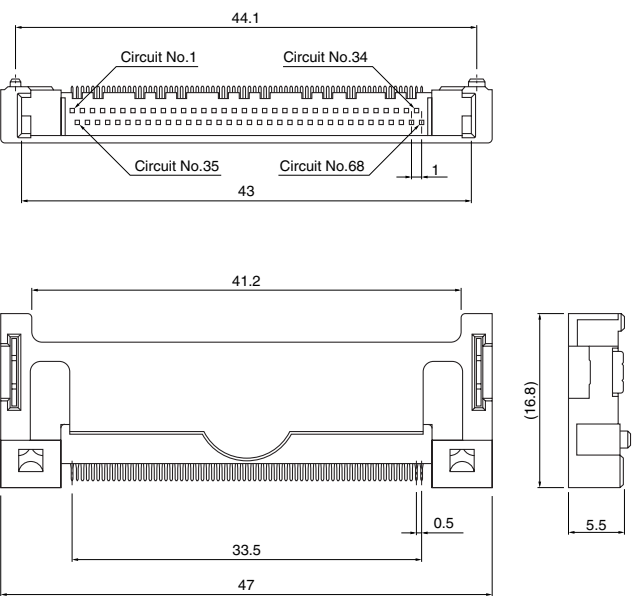
RoHS compliance This product displays (LF)(SN) on a label.

Header

Normal type (Stand off 0mm)



Reverse type (Stand off 0mm)



Circuits	Type	Model No.	Q'ty / box	Material and Finish
68	Normal	ICM-MB68H-S153-400N	168	Contact: Phosphor bronze, nickel-undercoated, Mating part: gold-plated Solder tail: tin-plated (reflow treatment) Housing: Glass-filled PPS, UL94V-0, Normal...black Reverse...brown Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)
	Reverse	ICM-MB68H-S153-400R		

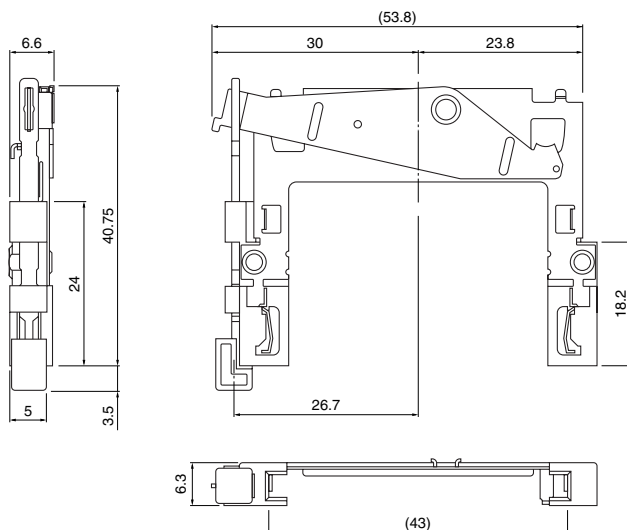
RoHS compliance This product displays (LF)(SN) on a label.

Dimension L	
Circuit No.	Dimensions (mm)
1, 17, 34, 35, 51, 68	5.0 ±0.1
2 to 16, 18 to 33, 37 to 50, 52 to 66	4.25 ±0.1
36, 37	3.5 ±0.1

SMALL PC CARD CONNECTOR MB TYPE

Ejector

Left Button

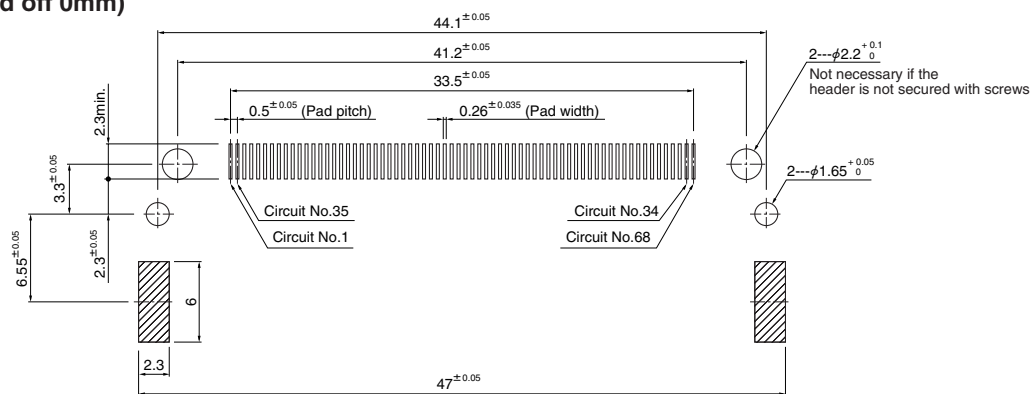


Circuits	Model No.	Q'ty / box	Material
Left button	ICM-MBE-L-300HA	70	Frame, Rotaiting arm, Push bar: Stainless Guide bar, Push button: Glass filled PBT, UL94V-0 Eyelet with nut: Brass, nickel-plated.

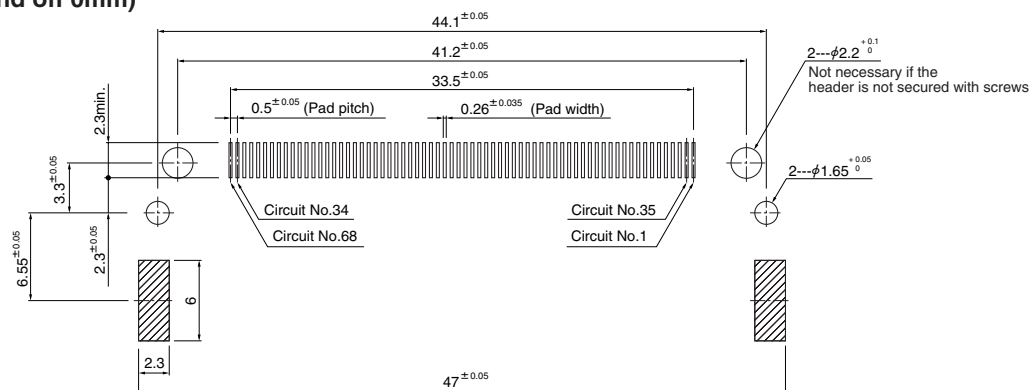
RoHS compliance

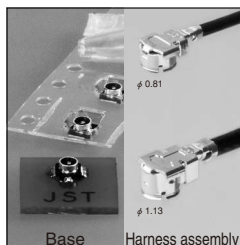
PC board layout (viewed from component side)

Normal type (Stand off 0mm)



Reverse type (Stand off 0mm)



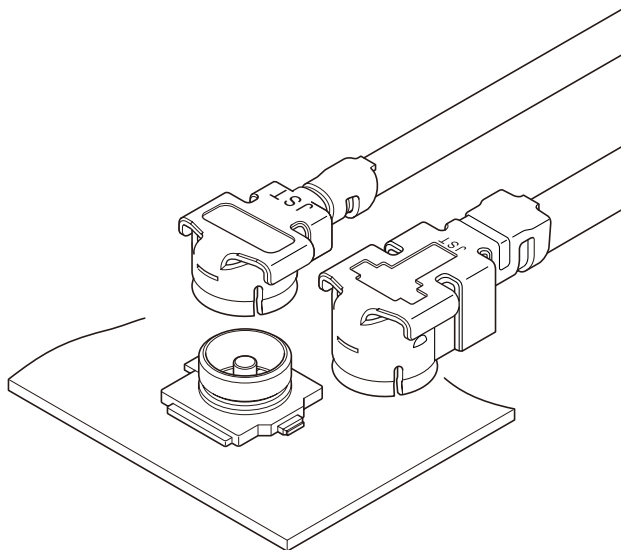


AYU1 CONNECTOR

Co-axial connector



Frequency from DC to 12GHz



This is SMT type, space saving and co-axial connector, corresponding to notebook PC, thinner and lighter telecommunications apparatus, etc.

[Application]

UWB, WiMAX, Wireless LAN, Bluetooth, DSRC, Mobile phones, PDA, GPS, Express, etc.

- **This connector can also be applicable the frequency of 12GHz or more.**
- **Space saving and low profile design**
- **Easy mating and unmating connector**
- **Adopting extra fine diameter high frequency cable**

Specifications

- Impedance: 50 Ω
- Frequency range: DC to 12GHz
- Voltage standing wave ratio (V.S.W.R.)

	Cable type	DC to 3GHz	3 to 6GHz	6 to 12GHz
Harness	φ 0.81 (Single shield SA)	1.3max.	1.3max.	1.4max.
	φ 1.13 (Double shields TA)	1.3max.	1.4max.	1.4max.
Base		1.3max.	1.4max.	1.5max.

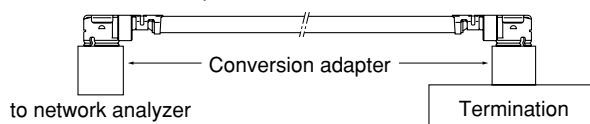
• Insertion loss (dB/m)

	Cable type	3GHz	6GHz	12GHz
Harness	φ 0.81 (Single shield SA)	5.8	9.4	14.9
	φ 1.13 (Double shields TA)	2.9	4.1	6.1
Base		—	—	—

Note: The specified values in above tables were measured by network analyzer as shown in the figure below.

[Harness]

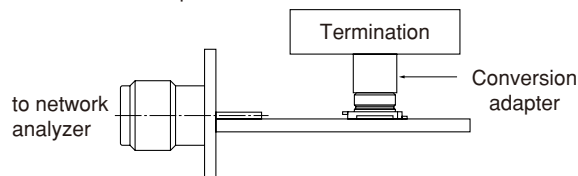
Harness: Both end harness assembly with harness of 5,000mm
SMA conversion adapter: AYU1-AP-PP



[Base]

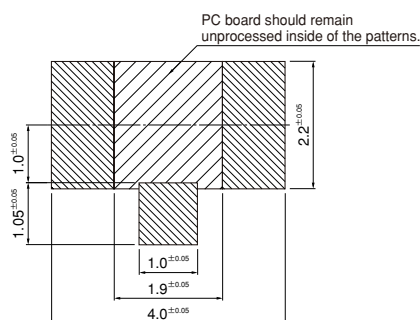
Base: AYU1-1P-02676-120

SMA conversion adapter: AYU1-AP-JJ



- Temperature range: - 25°C to + 85°C
(including temperature rise in applying electrical current)
- Withstanding voltage: 200V AC/minute
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

PC board layout (viewed from component side)



Note: Tolerances are non-cumulative: ±0.05mm for all centers. The dimensions above are our recommendation value.

AYU1 CONNECTOR

Socket (Harness assembly)

AYU1 (φ 0.81) Harness	AYU1 (φ 1.13) Harness
Material and Finish	
Contact: Copper alloy, nickel-undercoated, gold-plated Housing: Thermoplastic resin, UL94V-0 Shell: Copper alloy, copper-undercoated, silver-plated	

Harness specifications

Cable type (Specifications for outer diameter and outer conductor)	 Overall length L Harness model No. (Single end harness)	 Overall length L Harness model No. (Both end harness)
φ 0.81 (Single shielded, SA)	AYU1-1S21-SYYYY-ZZZV (LF)	AYU1-1S21-XXXXY-000V (LF)
φ 1.13 (Double shielded, TA)	AYU1-1S13-SYYYY-ZZZV (LF)	AYU1-1S13-XXXXY-000V (LF)

Note 1) Type of outer conductor SA: Silver-plated annealed copper wire, TA: Tin-plated annealed copper wire

Note 2) The following alphabet and number shall be put in the model No.

X...alphabet denotes cable end treatment (D: Both end harness/same direction, R: Both end harness/reverse direction)

Y...number denotes harness length

Z...number denotes strip length

V...alphabet denotes color identification (Blank: Black, G: Gray, W: White, B: Blue)

Example 1... φ 1.13mm (double shielded, TA) cable, connector end processing: both end harness (same direction), harness length: 251mm, wire color: black
Model No.: AYU1-1S13-D0251-000(LF)

Example 2... φ 0.81mm (single shielded, SA) cable, connector end processing: single end harness, harness length: 800mm, strip length: [inner conductor 2.0mm, insulator 1.0mm, outer conductor 3.0mm], cable color: white
Model No.: AYU1-1S21-S0800-213W(LF)

Note 3) Contact JST for details about overall length and connector end processing.

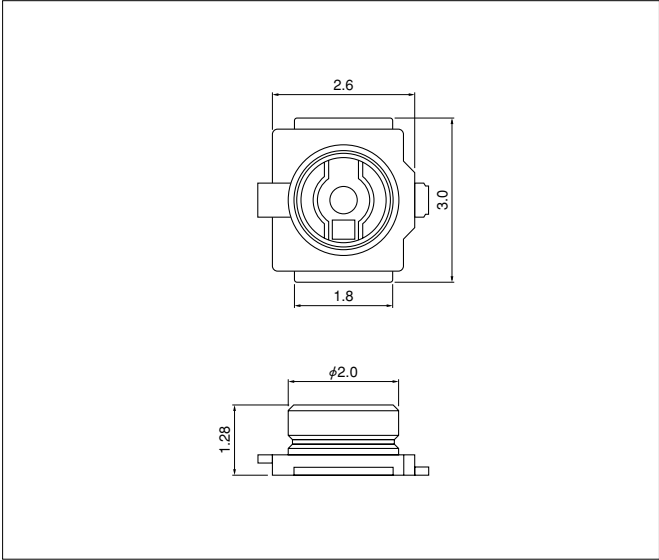
Harness overall length standard tolerance

Overall length L (mm)	Standard tolerance (mm)
$35 \leq L \leq 200$	± 4
$200 < L \leq 500$	± 8
$500 < L \leq 1000$	± 12
$1000 < L$	$\pm 1.5\%$

Note: The shortest length L=35mm

AYU1 CONNECTOR

Base



Model No.	Material and Finish	Q'ty / reel
AYU1-1P-02676-120	Contact: Copper alloy, nickel-undercoated, selective gold-plated Housing: Heat resisting resin, UL94V-0 Shell: Copper alloy, copper-undercoated, silver-plated	5,000

RoHS compliance

Assembly layout

AYU1 ($\phi 0.81$) Harness	AYU1 ($\phi 1.13$) Harness
<p>Technical drawing of the AYU1 connector assembly layout for the $\phi 0.81$ harness. It includes top, side, and cross-sectional views. Dimensions: 2.0 (width), 2.5 (height), and $\phi 0.81$ (diameter).</p>	<p>Technical drawing of the AYU1 connector assembly layout for the $\phi 1.13$ harness. It includes top, side, and cross-sectional views. Dimensions: 2.5 (width), 2.5 (height), and $\phi 1.13$ (diameter).</p>

Insertion and extraction jig

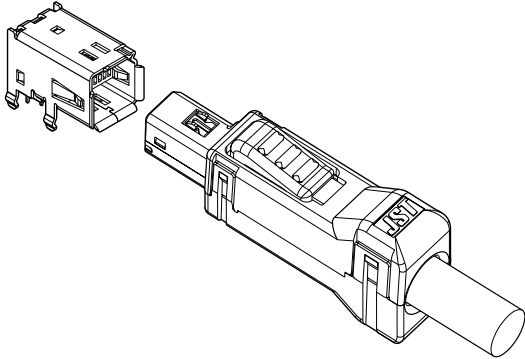
Model No.: EJ-AYU1





MUF CONNECTOR

0.8mm pitch/For Interface



This connector is the shielded interface connector with locking mechanism.

- ***Plug side: Easy assembling method***
- ***Receptacle side: The miniaturization is realized***
- ***Keying: Corresponding to the mis-insertion prevention***

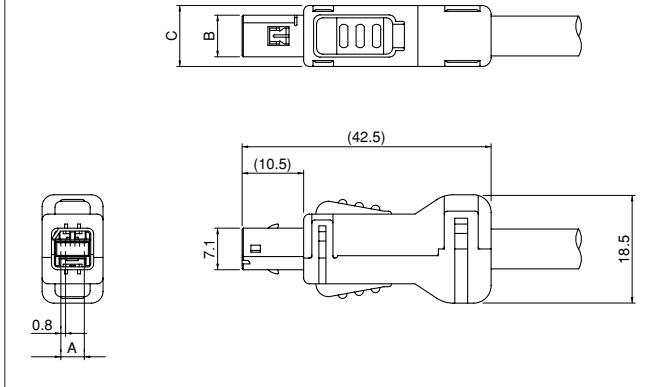
Specifications

- Current rating: 1.0A AC, DC
 - Voltage rating: 30V AC, DC
 - Temperature range: -55°C to +85°C
(including temperature rise in applying electrical current)
 - Contact resistance: Initial value/50m Ω max.
After environmental testing/100m Ω max.
 - Insulation resistance: Initial value/100M Ω min.
 - Withstanding voltage: Initial value/100V AC/minute
 - Applicable wire: AWG#28 to #24
Conductor insulation O.D./1.2mm max.
Cable O.D./6.8mm max.
 - Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

MUF CONNECTOR

Plug

Assembly layout (Reference)



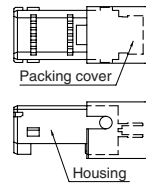
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
6	X	MUF-PK6K-X	4.0	7.2	10.4	54
	Y	MUF-PK6W-Y	4.0	7.2	10.4	54
8	X	MUF-PK8K-X	5.6	8.8	12.0	54
	Y	MUF-PK8W-Y	5.6	8.8	12.0	54

Material and Finish

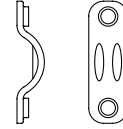
Contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Thermoplastic resin, UL94V-0, black
Metal shell A, B: Metal shell/ Copper alloy, nickel-undercoated, tin-plated
(Lock Ass'y): Plug lock/ Stainless
Cover housing A, B: Thermoplastic resin, UL94V-0, black (X-Keying), white (Y-Keying)
Cable lump: Steel, nickel-undercoated, tin-plated
Screw: Steel, copper-undercoated, nickel-plated

RoHS compliance

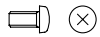
Housing
(with packing cover)



Cable clamp

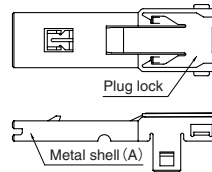


Screw (2 pcs.)

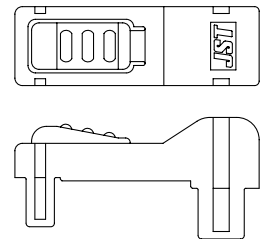


KIT PARTS

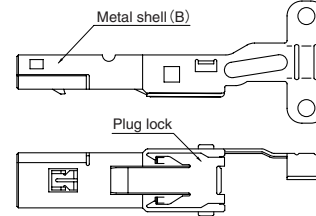
Metal shell (A)
[Lock Ass'y]



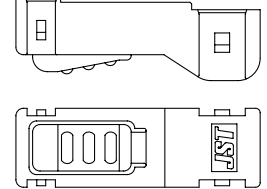
Cover housing (B)



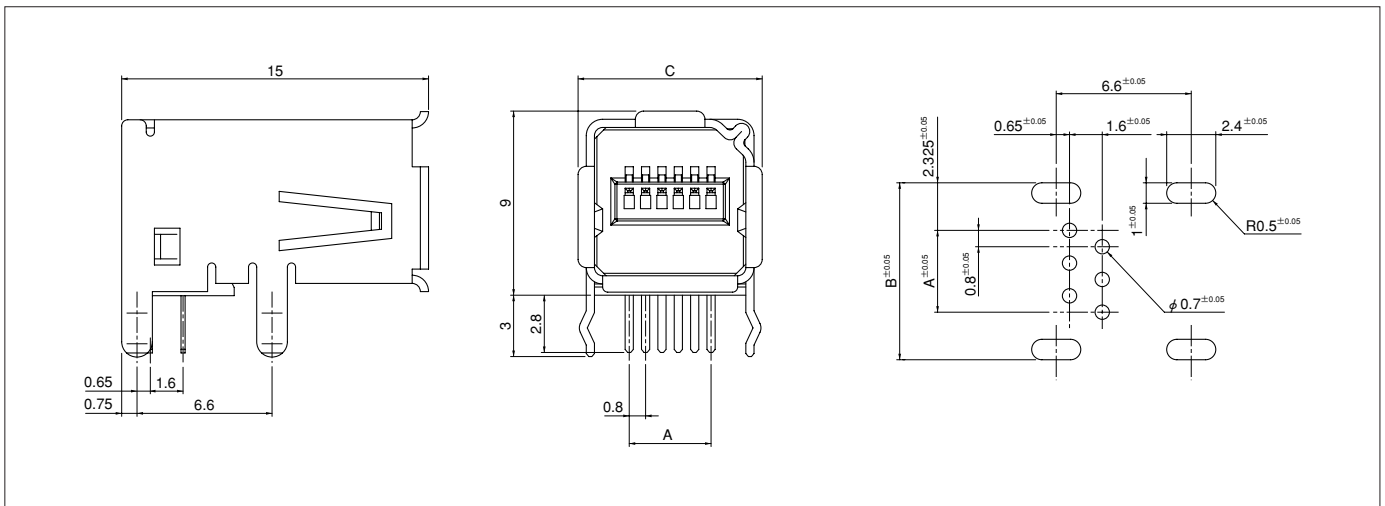
Metal shell (B)
[Lock Ass'y]



Cover housing (A)



Receptacle



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
6	X	MUF-RS6DK-GKXR	4.0	8.65	9.0	105
	Y	MUF-RS6DS-GKYR	4.0	8.65	9.0	105
8	X	MUF-RS8DK-GKXR	5.6	10.25	10.6	105
	Y	MUF-RS8DS-GKYR	5.6	10.25	10.6	105

RoHS compliance

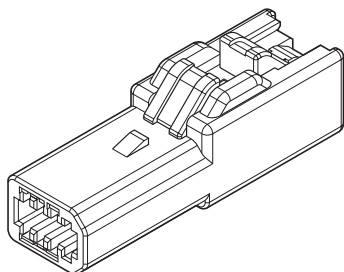
Material and Finish

Contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Thermoplastic resin, UL94V-0, black (X-Keying), natural/white (Y-Keying)
Metal shell: Copper alloy, nickel-undercoated, tin-plated



CIF CONNECTOR

1.27mm pitch/For Interface



This connector is a simplified plug with bypass circuit where equipped the function to unlocking.

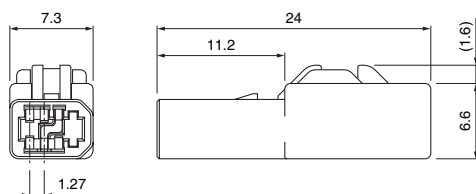
- Bypass connecting
- Slim shape
- Keying

Specifications

- Current rating: 0.5 A AC, DC
- Voltage rating: 30 V AC, DC
- Temperature range: -40°C to +70°C
(including temperature rise in applying electrical current)

- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Compliant with RoHS.

Plug



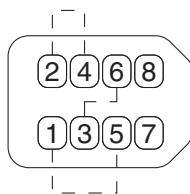
Circuits	Model No.	Q'ty / box
8	CIF-PB08AK-GF1R	630

Material and Finish

Contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Thermoplastic resin, UL94V-0, black
Unlocking lever: Thermoplastic resin, UL94V-0, black

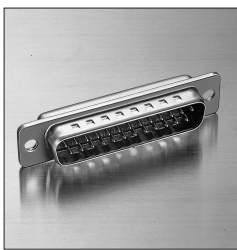
RoHS compliance

Bypass circuit



● Short-circuit

Circuit No.1-5
Circuit No.2-4
Circuit No.3-6



DSUBMINIATURE CONNECTOR J SERIES

Solder pot plug and socket

SOLDER POT PLUG AND SOCKET



Solder pot plug



Solder pot socket

Features

- The socket contacts are formed by high-speed stamping presses to obtain the advantages of cold working. They are therefore highly elastic, which in turn ensures reliable connection even after many mating cycles.
- The dimples in the plug shell ensure continuity between it and the socket shell, thus providing complete shielding.
- Costs are kept low by selective gold plating the contacts.
- The solder cup portions of the contacts are tin-plated for easy soldering.
- Insulator housings are made of a heat-resistant glass-filled PBT resin.

Standards

Recognized E60389 Certified LR20812

- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Specifications

Materials

Connector	Part name	Material and Finish
Plug	Contact	Brass, gold-plated product: Nickel-undercoated, Mating part: gold-plated Solder tail: tin-plated (reflow treatment) tin-plated product: Copper-undercoated, tin-plated (reflow treatment)
	Insulator	Glass-filled PBT, UL94V-0, black
	Shell	Steel, copper-undercoated, nickel-plated
Socket	Contact	Phosphor bronze, gold-plated product: Nickel-undercoated, Mating part: gold-plated Solder tail: tin-plated (reflow treatment) tin-plated product: Copper-undercoated, tin-plated (reflow treatment)
	Insulator	Glass-filled PBT, UL94V-0, black
	Shell	Steel, copper-undercoated, nickel-plated

Characteristics

Current rating	3A, AC, DC (2A for 37-circuits)
Voltage rating	250V AC, DC
Temperature range	-40°C to +85°C (including temperature rise in applying electrical current)
Contact resistance	Initial value/15mΩ max. After environmental testing/30mΩ max.
Insulation resistance	5,000MΩ min.
Withstanding voltage	1,000V AC/minute

Note: Contact JST for details.

Model number identification

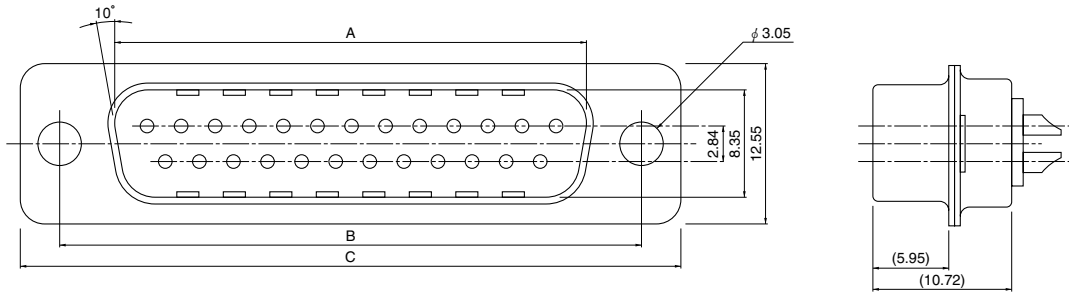
J E Z - 9 P - 12 - 3

• Series name	J
• Shell size: E, A, B, C	E
• Wire connection style: Z ... Solder pot type	Z
• Number of circuits: 9, 15, 25, 37	9
• Connector style: P ... Plug, S ... Socket	P
• Finish Blank ... Gold-plated (flash) 12 ... 0.2micron gold-plated 13 ... 0.4micron gold-plated 14 ... 0.76micron gold-plated 90 ... Tin-plated (reflow treatment)	12
• Plating specification of shell: 3 ... Copper-undercoated, nickel-plated	3

Note: 1. The relationship between number of circuits and shell size is shown below.
9: E, 15: A, 25: B, 37: C
2. Contact JST for special plating requirements.

D SUBMINIATURE CONNECTOR J SERIES

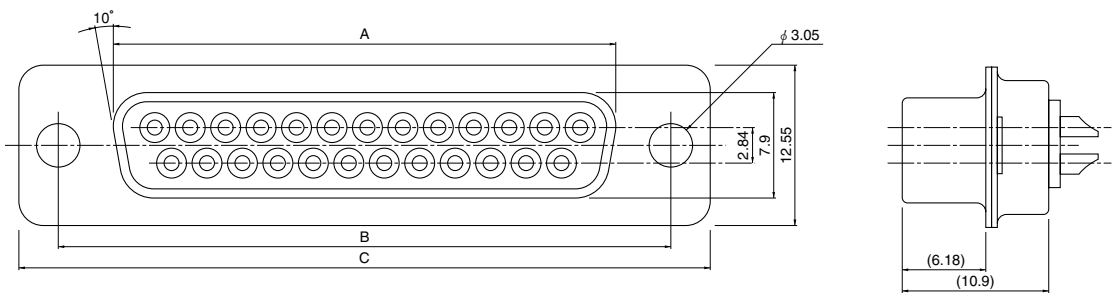
Plug



Circuits	Model No.		Dimensions (mm)			Q'ty / box
	Gold-plated	Tin-plated	A	B	C	
9	JEZ-9P-3	JEZ-9P-90-3	16.92	24.99	30.80	100
15	JAZ-15P-3	JAZ-15P-90-3	25.25	33.32	39.14	100
25	JBZ-25P-3	JBZ-25P-90-3	38.97	47.04	53.04	50
37	JCZ-37P-3	JCZ-37P-90-3	55.43	63.50	69.32	50

RoHS compliance Gold-plated products display (LF)(SN) on a label.

Socket



Circuits	Model No.		Dimensions (mm)			Q'ty / box
	Gold-plated	Tin-plated	A	B	C	
9	JEZ-9S-3	JEZ-9S-90-3	16.34	24.99	30.80	100
15	JAZ-15S-3	JAZ-15S-90-3	24.67	33.33	39.14	100
25	JBZ-25S-3	JBZ-25S-90-3	38.38	47.04	53.04	50
37	JCZ-37S-3	JCZ-37S-90-3	54.84	63.50	69.32	50

RoHS compliance Gold-plated products display (LF)(SN) on a label.



D SUBMINIATURE CONNECTOR J SERIES

Right angle through-hole plug and socket

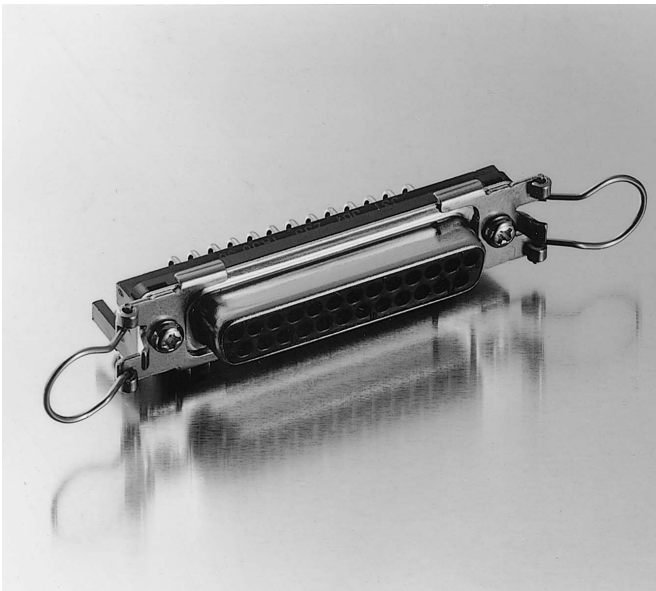
RIGHT ANGLE THROUGH-HOLE PLUG AND SOCKET



Right angle through-hole plug
(with hexagonal lock screw blocks)



Right angle through-hole socket
(with rectangular lock screw blocks)



Right angle through-hole socket
(with bail lock)

Features

- The socket contacts are made by high-speed stamping presses. This promotes the uniform elasticity of the twin-contact mating sections and therefore ensures reliable contact even after repeated mating cycles. The solder tails are U-shaped for extra strength.
- Costs are minimized by selective gold plating, high speed stamping presses, and completely automated assembly.
- To ensure complete shielding, a wide variety of grounding adapters are available so that the sockets can be grounded to different kinds of supporting structures.
- Metric, inch or other lock screw blocks are available for fastening mating plugs.

D SUBMINIATURE CONNECTOR J SERIES

Specifications

Materials

Part name		Material and Finish
Contact	Plug	Brass, gold-plated product: Nickel-undercoated, Mating part: gold-plated Solder tail; tin-plated (reflow treatment) tin-plated product: Copper-undercoated, tin-plated (reflow treatment)
	Socket	Phosphor bronze, gold-plated product: Nickel-undercoated, Mating part: gold-plated Solder tail; tin-plated (reflow treatment) tin-plated product: Copper-undercoated, tin-plated (reflow treatment)
Insulator		Glass-filled PBT, UL94V-0, black
Shell		Steel, copper-undercoated, nickel-plated
Hexagonal lock screw block		Steel, copper-undercoated, nickel-plated
Rectangular lock screw block		Zinc, copper-undercoated, nickel-plated
Grounding adapter having a 3.2mm dia. hole		Steel, copper-undercoated, nickel-plated
Grounding adapter having an M3 tapped hole		
Grounding adapter having a spring lock lever		Brass, nickel-undercoated, tin/copper alloy-plated
Spring locks	Bail lock	Stainless steel
	Accepts bail locks	

Characteristics

Current rating	3A, AC, DC (2.0A AC, DC for 37-circuits)
Voltage rating	250V AC, DC
Temperature range	-40°C to +85°C (including temperature rise in applying electrical current)
Contact resistance	Initial value/15mΩ max. After environmental testing/30mΩ max.
Insulation resistance	5,000MΩ min.
Withstanding voltage	1,000V AC/minute
Applicable PC board thickness	1.6mm

Note: Contact JST for details.

Standards

Recognized E60389 Certified LR20812

* Compliant with RoHS.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

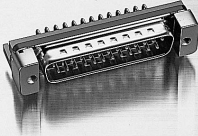

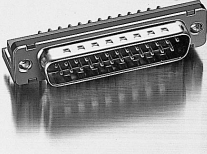
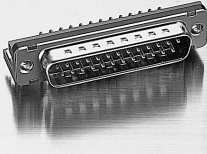
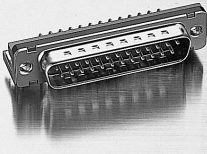
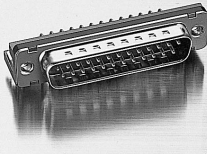
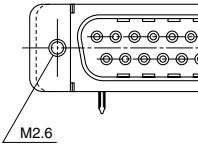
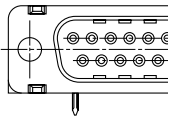
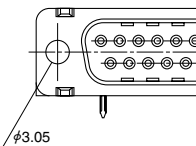
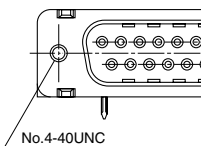
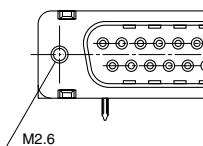
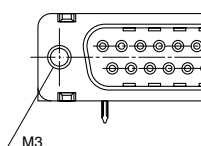
Model number identification

	J	E	Y	-	9	S	-	1A	3	A	12	S1
• Series name												
• Shell size: E, A, B, C												
• Wire connection style: Y... Right angle through-hole style												
• Number of circuits: 9, 15, 25, 37												
• Connector style: P ... Plug, S ... Socket												
• Connector construction/Dimensions: Standard J series												
• Types of grounding adapters 0 ... Without grounding adapters 1 ... With grounding adapters having a 3.2mm dia. hole 2 ... With grounding adapters having an M3 thread 3 ... With grounding adapters having a spring lock device (1) 4 ... With grounding adapters having a spring lock device (2)												
• Types of lock screw blocks A ... With hexagonal lock screw blocks having a No. 4-40 UNC inch thread B ... With hexagonal lock screw blocks having an M2.6 thread C ... With rectangular lock screw blocks having an M2.6 thread D ... Without lock screw blocks E ... Without lock screw blocks, but with grounding adapters having a 3.05mm dia. hole F ... Without lock screw blocks, but with grounding adapters having a No. 4-40UNC inch thread G ... Without lock screw blocks, but with grounding adapters having an M2.6 thread H ... Without lock screw blocks, but with grounding adapters having an M3 thread												
• Finish Blank ... Gold-plated (flash) 12 ... 0.2micron gold-plated 13 ... 0.4micron gold-plated 14 ... 0.76micron gold-plated 90 ... Tin-plated (reflow treatment)												
• Bail locks Blank...Without bail locks S or S1...With bail locks S2...With bail locks (with addition of spring characteristic)												
<p>Note: 1. The relationship between number of circuits and shell size is shown below. 9: E, 15: A, 25: B, 37: C 2. Contact JST for special plating requirements. 3. Contact JST for the Socket with bail locks. (Not UL/CSA approved.)</p>												

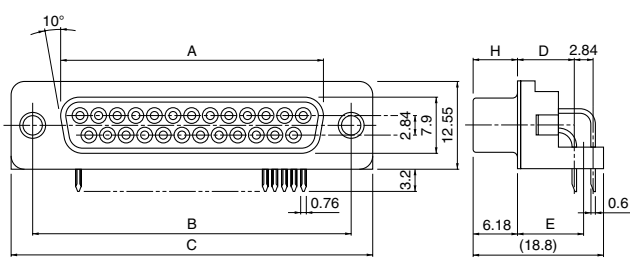


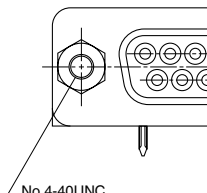
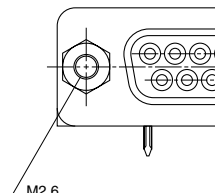
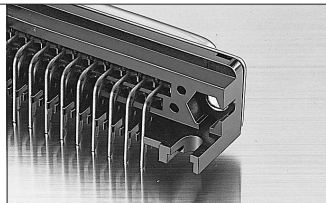

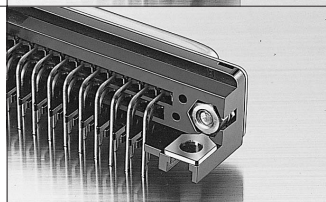

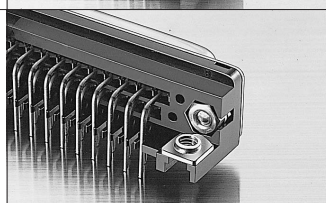

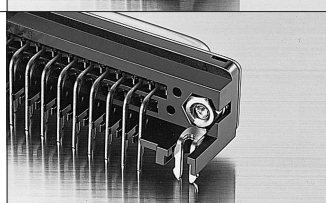

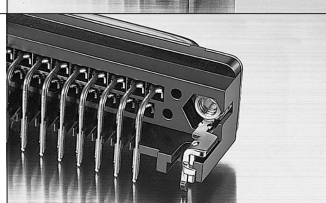
D SUBMINIATURE CONNECTOR J SERIES

Right angle through-hole plug				Type A	Type B																																											
<p>H: Height of the lock screw block (for Types A, B & C)</p> <table><tr><th rowspan="2">Cir- cuits</th><th colspan="2">Model No.</th><th colspan="5">Dimensions (mm)</th><th rowspan="2">Q'ty / box</th></tr><tr><th>gold-plated plug</th><th>tin-plated plug</th><th>A</th><th>B</th><th>C</th><th>D</th><th>E</th></tr><tr><td>9</td><td>JEY-9P-1A**</td><td>JEY-9P-1A**90</td><td>16.90</td><td>24.99</td><td>30.80</td><td>8.1</td><td>9.52</td><td>100</td></tr><tr><td>15</td><td>JAY-15P-1A**</td><td>JAY-15P-1A**90</td><td>25.25</td><td>33.33</td><td>39.14</td><td>8.1</td><td>9.52</td><td>100</td></tr><tr><td>25</td><td>JBY-25P-1A**</td><td>JBY-25P-1A**90</td><td>38.97</td><td>47.04</td><td>53.00</td><td>8.2</td><td>9.62</td><td>50</td></tr></table> <p><Gold-plated product> RoHS compliance This product displays (LF)(SN) on a label. <Tin-plated product> *1, 2, 3 ... RoHS compliance *4, 5 ... RoHS compliance This product displays (LF) on a label. Note: ** shows the location where a two-digit code (see the table below for codes) should be entered. For example, if a 9-circuit gold-plated (flash) plug with hexagonal lock screw blocks having a No.4-40UNC inch thread and without grounding adapters is required, specify the model number as JEY-9P-1A0A.</p>				Cir- cuits	Model No.		Dimensions (mm)					Q'ty / box	gold-plated plug	tin-plated plug	A	B	C	D	E	9	JEY-9P-1A**	JEY-9P-1A**90	16.90	24.99	30.80	8.1	9.52	100	15	JAY-15P-1A**	JAY-15P-1A**90	25.25	33.33	39.14	8.1	9.52	100	25	JBY-25P-1A**	JBY-25P-1A**90	38.97	47.04	53.00	8.2	9.62	50		
Cir- cuits	Model No.		Dimensions (mm)					Q'ty / box																																								
	gold-plated plug	tin-plated plug	A	B	C	D	E																																									
9	JEY-9P-1A**	JEY-9P-1A**90	16.90	24.99	30.80	8.1	9.52	100																																								
15	JAY-15P-1A**	JAY-15P-1A**90	25.25	33.33	39.14	8.1	9.52	100																																								
25	JBY-25P-1A**	JBY-25P-1A**90	38.97	47.04	53.00	8.2	9.62	50																																								
*1 Without grounding adapters				0A	0B																																											
*2 With grounding adapters with a 3.2mm dia. hole				1A	1B																																											
*3 With grounding adapters with an M3 thread				2A	2B																																											
*4 With grounding adapters with a spring lock device (1)				3A	3B																																											
*5 With grounding adapters with a spring lock device (2)				—	—																																											

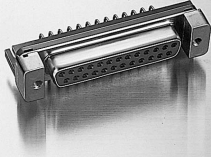





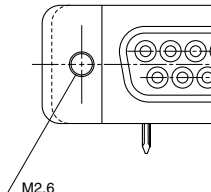
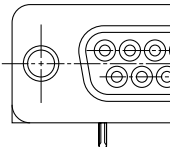
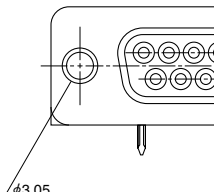
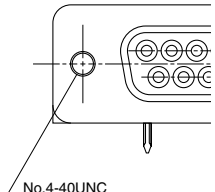
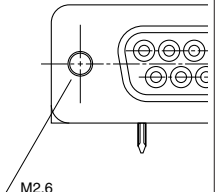
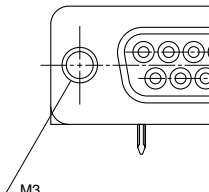
D SUBMINIATURE CONNECTOR J SERIES

Type C	Type D	Type E	Type F	Type G	Type H
					
With rectangular lock screw blocks (H: 6.2mm) having an M2.6 thread	Without lock screw blocks	Without lock screw blocks E: Grounding adapter has no thread. F, G, H: Grounding adapters have a thread (*1) for securing separately-purchased lock screw blocks (*2)			
		Use a lock screw block of Model number JFS-()S-C1N.	*1: No.4-40UNC inch thread *2: Model number JFS-4S-()1W(M)	*1: M2.6 thread *2: Model number JFS-2.6S-()1W(M)	*1: M3 thread *2: Model number JFS-3S-()1W(M)
					
0C	0D	—	—	—	—
1C	1D	1E	1F	1G	—
2C	2D	2E	2F	2G	—
3C	3D	3E	3F	3G	—
—	—	—	—	—	4H

D SUBMINIATURE CONNECTOR J SERIES

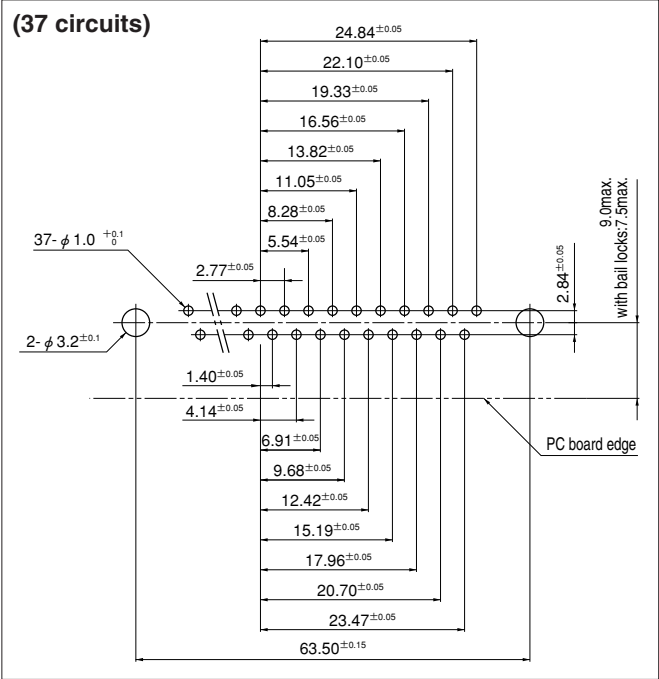
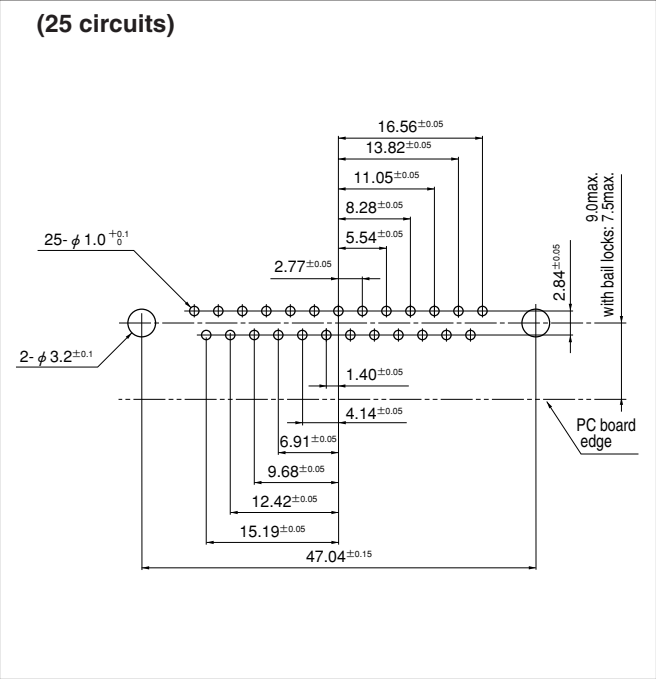
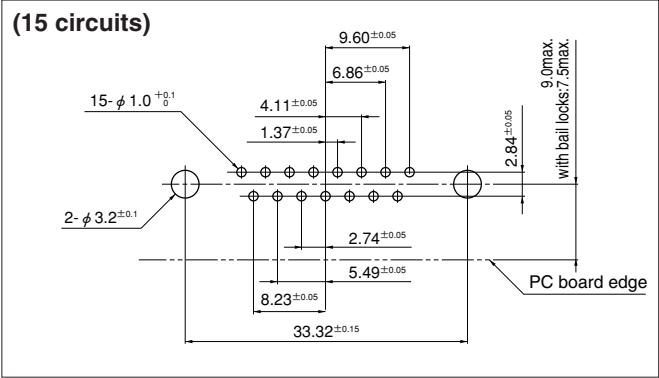
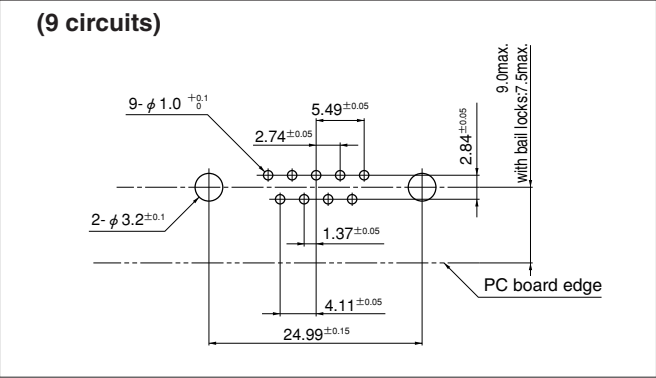
Right angle through-hole socket				Type A	Type B				
									
H: Height of the lock screw block (for Types A, B & C)				With hexagonal lock screw blocks(H: 6.3mm) having a No.4-40UNC inch thread	With hexagonal lock screw blocks(H: 6.3mm) having an M2.6 thread				
<div><div>Cir-cuits</div><div>Model No.</div><div>Dimensions (mm)</div><div>Q'ty / box</div></div>	gold-plated socket	tin-plated socket	A	B	C	D	E		
	9	JEY-9S-1A**	JEY-9S-1A**90	16.34	24.99	30.81	8.1	9.52	100
	15	JAY-15S-1A**	JAY-15S-1A**90	24.67	33.32	39.14	8.1	9.52	100
	25	JBV-25S-1A**	JBV-25S-1A**90	38.38	47.04	53.04	8.2	9.62	50
	37	JCY-37S-1A**	JCY-37S-1A**90	54.84	63.50	69.32	8.2	9.62	50
<div><div><Gold-plated product></div><div>RoHS compliance</div><div>This product displays (LF)(SN) on a label.</div></div> <div><div><Tin-plated product></div><div>*1, 2, 3 ... RoHS compliance</div><div>*4, 5 ... RoHS compliance</div><div>This product displays (LF) on a label.</div></div> <div>Note: ** shows the location where a two-digit code (see the table below for codes) should be entered. For example, if a 9-circuit gold-plated (flash) socket with hexagonal lock screw blocks having a No.4-40UNC inch thread and without grounding adapters is required, specify the model number as JEY-9S-1A0A.</div>									
<div>*1</div> <div>Without grounding adapters</div> 				0A	0B				
<div>*2</div> <div>With grounding adapters with a 3.2mm dia. hole</div>  				1A	1B				
<div>*3</div> <div>With grounding adapters with an M3 thread</div>  				2A	2B				
<div>*4</div> <div>With grounding adapters with a spring lock device (1)</div>  				3A	3B				
<div>*5</div> <div>With grounding adapters with a spring lock device (2)</div>  				—	—				

D SUBMINIATURE CONNECTOR J SERIES

Type C	Type D	Type E	Type F	Type G	Type H
					
With rectangular lock screw blocks (H: 6.2mm) having an M2.6 thread	Without lock screw blocks	Without lock screw blocks E: Grounding adapter has no thread. F, G, H: Grounding adapters have a thread (*1) for securing separately-purchased lock screw blocks (*2)			
		Used a lock screw block [model number JFS-()S-C1N]	*1: No.4-40UNC inch thread *2: Model number JFS-4S-()1W(M)	*1: M2.6 thread *2: Model number JFS-2.6S-()1W(M)	*1: M3 thread *2: Model number JFS-3S-()1W(M)
					
0C	0D	—	—	—	—
1C	1D	1E	1F	1G	—
2C	2D	2E	2F	2G	—
3C	3D	3E	3F	3G	—
—	—	—	—	—	4H

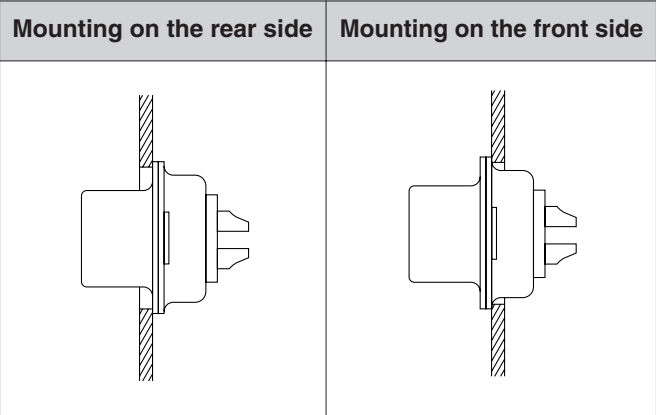
D SUBMINIATURE CONNECTOR J SERIES

PC board layout (viewed from component side)

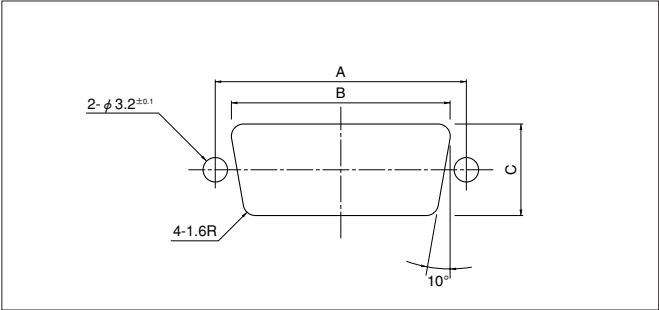


Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Panel layout

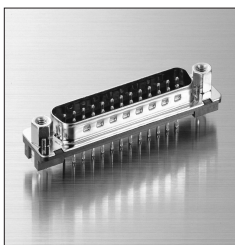


The connector can be mounted either on the front side or on the rear side of the panel as shown above.
Use M2.5 or M2.6 screws for installation.



Circuits	A ± 0.15	B ± 0.2	C ± 0.2
9	24.99	20.6	12.0
15	33.32	28.8	12.0
25	47.04	42.6	12.0
37	63.50	59.0	12.0

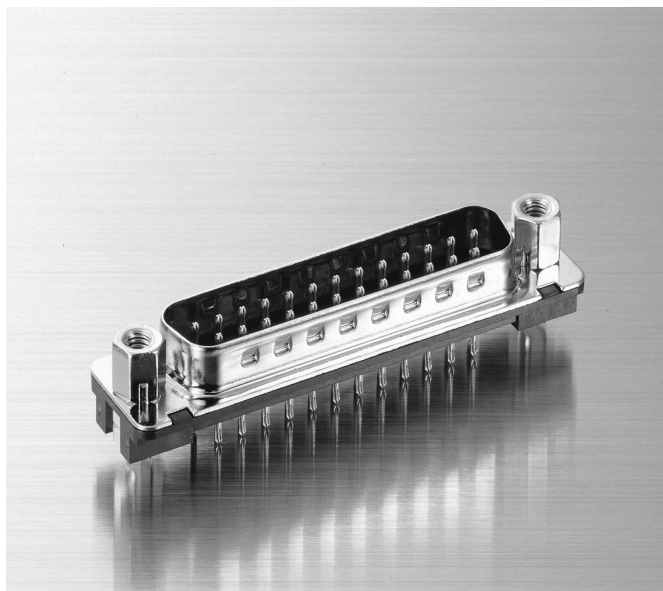
Note: The dimensions above should serve as a guideline.
Contact JST for details.



D SUBMINIATURE CONNECTOR J SERIES

Straight through-hole plug and socket

STRAIGHT THROUGH-HOLE PLUG AND SOCKET



Straight through-hole plug
(with hexagonal lock screw blocks)




Straight through-hole socket (without lock screw blocks, but with
grounding adapters having a No.4-40UNC inch thread)

Features

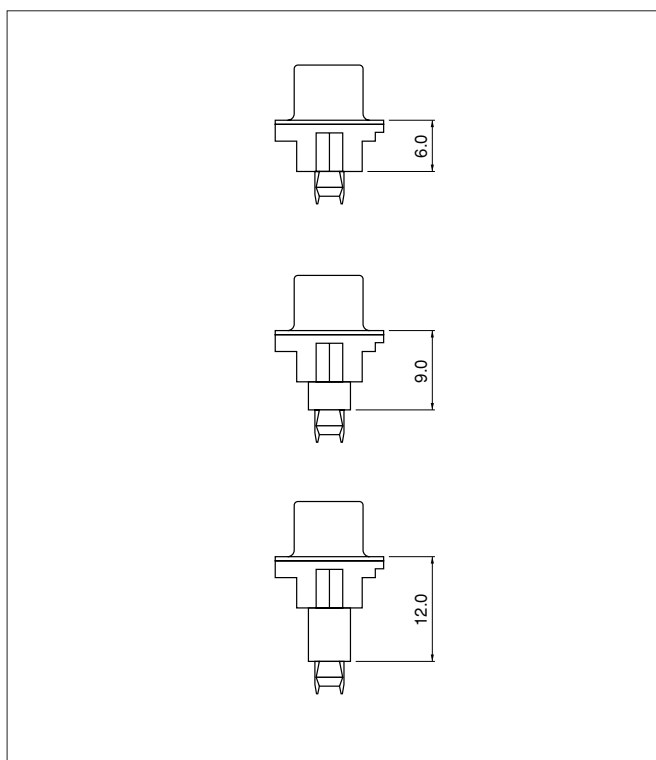
- Three standard types are available with different dimensions between the flange and solder tail: 6mm, 9mm, and 12mm.
- The roots of the contact leads are covered to prevent flux from rising into the connector during soldering.
- A grounding adapter with a spring lock device allows the connector to be temporarily secured onto the printed circuit board so that the connector can be soldered easily.

Standards

 Recognized E60389

 Certified LR20812

- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.



D SUBMINIATURE CONNECTOR J SERIES

Specifications

Materials

Part name		Material and Finish
Contact	Plug	Brass, gold-plated product: Nickel-undercoated, Mating part: gold-plated Solder tail; tin-plated (reflow treatment)
	Socket	Phosphor bronze, gold-plated product: Nickel-undercoated, Mating part: gold-plated Solder tail; tin-plated (reflow treatment)
Insulator		Glass-filled PBT, UL94V-0, black
Shell		Steel, copper-undercoated, nickel-plated
Hexagonal lock screw block		Steel, copper-undercoated, nickel-plated
Grounding adapter with spring lock device	Cutting product	Brass, nickel-undercoated, tin/copper alloy-plated
	Stamping product	Brass, tin-plated (reflow treatment)
Spring lock	Bail locks	Stainless steel
	Accepts bail locks	

Characteristics

Current rating	3A AC, DC
Voltage rating	250V AC, DC
Temperature range	-40°C to +85°C (including temperature rise in applying electrical current)
Contact resistance	Initial value/15mΩ max. After environmental testing/30mΩ max.
Insulation resistance	5,000MΩ min.
Withstanding voltage	1,000V AC/minute
Applicable PC board thickness	1.6mm

*Contact JST for details.

Straight through-hole plug

Type A

With hexagonal lock screw blocks(H:6.3mm) having a No.4-40UNC inch thread

No.4-40UNC

Cir- cuits	Dimension between flange and solder tail (mm)	Model No.		Dimensions (mm)				Q'ty / box
		Gold-plated (flash) Plug	Gold-plated 0.76micron	A	B	C	D	
9	6	JES-9P-2A**	JES-9P-2A**14	16.90	24.99	30.8	2.4	100
	9	JES-9P-3A**	JES-9P-3A**14					
	12	JES-9P-4A**	JES-9P-4A**14					
25	6	JBS-25P-2A**	JBS-25P-2A**14	38.97	47.04	53.0	2.5	50
	9	JBS-25P-3A**	JBS-25P-3A**14					
	12	JBS-25P-4A**	JBS-25P-4A**14					

RoHS compliance This product displays (LF)(SN) A on a label.
Note: ** shows the location where a two-digit code (see the table below for codes) should be entered. For example, if a 9-circuit gold-plated (flash) plug with hexagonal lock screw blocks having a No. 4-40UNC inch thread and with grounding adapters whose dimension between flange and solder tail is 6.0mm is required, specify the model number as JES-9P-3A3A.

With grounding adapters with a spring lock device

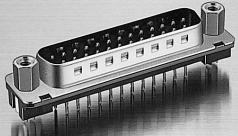
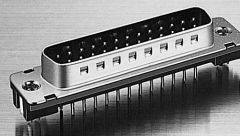
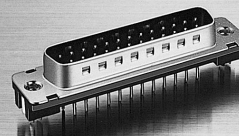
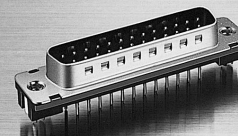
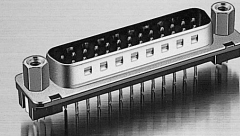
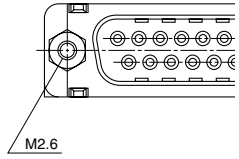
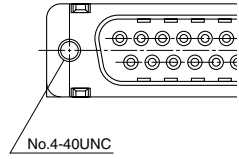
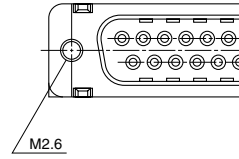
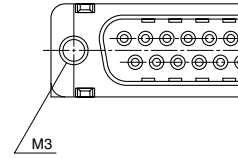
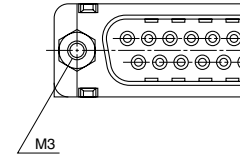
3A

D SUBMINIATURE CONNECTOR J SERIES

Model number identification

	J	B	S	-	25	P	-	2A	3	F	14	S1
• Series name												
• Shell size: B, E												
• Wire connection type: S ... Straight through-hole type												
• Number of circuits: 9, 25												
• Connector type: P ... Plug S ... Socket												
• Connector construction/dimensions: 2A ... 6.0 mm from flange to solder tail 3A ... 9.0 mm from flange to solder tail 4A ... 12.0mm from flange to solder tail												
• Types of grounding adapter: 3 ... Grounding adapter with a spring lock device (Cutting product), 7 ... Grounding adapter with a spring lock device (Stamping product)												
• Types of lock screw block: A ... With hexagonal lock screw blocks having a No. 4-40UNC inch thread B ... With hexagonal lock screw blocks having an M2.6 thread F ... Without lock screw blocks, but with grounding adapters having an No.4-40UNC inch thread G ... Without lock screw blocks, but with grounding adapters having an M2.6 thread H ... Without lock screw blocks, but with grounding adapters having an M3 thread J ... With hexagonal lock screw block having an M3 thread												
• Finish of mating part Blank ... Gold-plated (flash) 13 ... 0.4micron gold-plated 14 ... 0.76micron gold-plated 90 ... Tin-plated (reflow treatment)												
• Bail locks Blank...Without bail locks S or S1...With bail locks (bent oval type), S2...With bail locks (with addition of spring characteristic, bent oval type) S3...With bail locks (with addition of spring characteristic, Diamond type), S5...With bail locks (with addition of spring characteristic, straight oval type)												

*Note: 1. In the J Series, the number of circuits is determined by the shell size: 9 circuits for E and 25 circuits for B.
2. Contact JST for special plating requirements.
3. Contact JST for the dimensions between the flange and solder tail other than those listed above.
4. Grounding adapters that can secure printed circuit boards are also available.
5. Contact JST for the Receptacle with spring lock devices. (Not UL/CSA approved.)*

Type B	Type F	Type G	Type H	Type J
				
With hexagonal lock screw blocks (H: 6.3mm) having an M2.6 thread	Without lock screw blocks F, G, H: Grounding adapters have a thread (*1) for securing separately-purchased lock screw blocks (*2)			With hexagonal lock screw blocks (H: 6.3mm) having an M3 thread
	*1: No.4-40UNC inch thread *2: Model number SFS-4S-()1W(M)	*1: M2.6 thread *2: Model number SFS-2.6S-()1W(M)	*1: M3 thread *2: Model number SFS-3S-()1W(M)	
				
M2.6	No.4-40UNC	M2.6	M3	M3
3B	3F	3G	3H	3J

D SUBMINIATURE CONNECTOR J SERIES

Straight through-hole socket

9

25

3A

Type A

With hexagonal lock screw blocks(H:6.3mm) having a No.4-40UNC inch thread

H: Height of the lock screw block (for Types A, B & J)

Cir-cuits	Dimension between flange and solder tail (mm)	Model No.			Dimensions (mm)				Q'ty / box
		Gold-plated (flash) socket	Gold-plated 0.76micron	Tin-plated	A	B	C	D	
9	6	JES-9S-2A**	JES-9S-2A**14	—	16.34	24.99	30.8	2.4	100
	9	JES-9S-3A**	JES-9S-3A**14	—					
	12	JES-9S-4A**	JES-9S-4A**14	—					
25	6	JBS-25S-2A**	JBS-25S-2A**14	JBS-25S-2A**90	38.38	47.04	53.0	2.5	50
	9	JBS-25S-3A**	JBS-25S-3A**14	JBS-25S-3A**90					
	12	JBS-25S-4A**	JBS-25S-4A**14	—					

<Gold-plated product> RoHS compliance This product displays (LF)(SN) A on a label.

<Tin-plated product> RoHS compliance This product displays (LF) A on a label.

Note: ** shows the location where a two-digit code (see the table below for codes) should be entered. For example, if a 9-circuit gold-plated (flash) socket with hexagonal lock screw blocks having a No. 4-40UNC inch thread and with grounding adapters whose dimension between flange and solder tail is 6.0mm is required, specify the model number as JES-9S-3A3A.

With grounding adapters with a spring lock device

6.0 mm type

9.0 mm type

12.0 mm type

3A

PC board layout (viewed from component side)





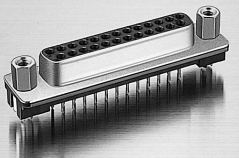
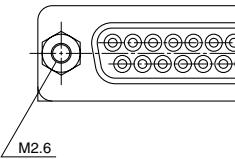
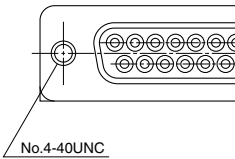
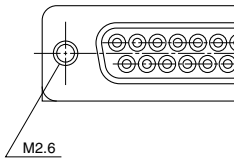
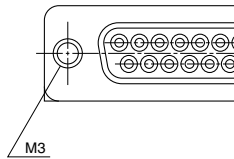
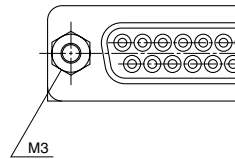
(9-circuits)

(25-circuits)

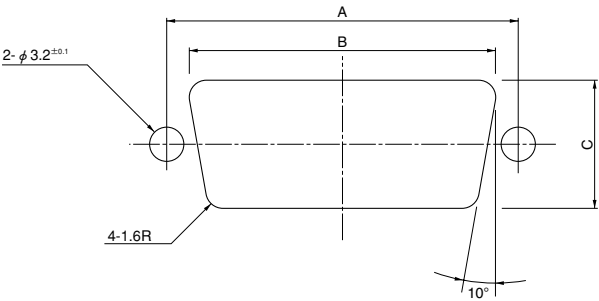
Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

13 JST

D SUBMINIATURE CONNECTOR J SERIES

Type B	Type F	Type G	Type H	Type J
				
With hexagonal lock screw blocks (H: 6.3mm) having an M2.6 thread	Without lock screw blocks F, G, H: Grounding adapters have a thread (*1) for securing separately-purchased lock screw blocks (*2)			With hexagonal lock screw blocks (H: 6.3mm) having an M3 thread
	*1: No.4-40UNC inch thread *2: Model number SFS-4S-()1W(M)	*1: M2.6 thread *2: Model number SFS-2.6S-()1W(M)	*1: M3 thread *2: Model number SFS-3S-()1W(M)	
				
3B	3F	3G	3H	3J

Panel layout



Circuits	A±0.15	B±0.2	C±0.2
9	24.99	20.6	12.0
25	47.04	42.6	12.0

Note: The dimensions above should serve as a guideline. Contact JST for details.



D SUBMINIATURE CONNECTOR J SERIES

Crimp style plug and socket

CRIMP STYLE PLUG AND SOCKET



Features

- The contacts of this plug are formed by high-speed stamping presses into continuous strips that can be automatically fed into our compact crimping machines. Much less time is required to assemble CRT and RS-232C round cables using this plug than when soldering connections.
- The contacts in this connector are selectively gold-plated. Moreover, JST's advanced technological knowledge and

experience are fully utilized to significantly reduce production costs.

- The dimples in the connector shell provide the ground connection and are important factors in preventing electromagnetic interference. The contact has a lance that can be visually checked during assembly. This assures accurate assembly and reduces defects.

Specifications

Materials

Connector	Part name	Material and Finish
Plug	Contact	Brass, gold-plated product: Nickel-undercoated, Mating part: gold-plated Crimping part: tin-plated (reflow treatment) tin-plated product: tin-plated (reflow treatment)
	Insulator	Glass-filled PBT, UL94V-0, black
	Shell	Steel, copper-undercoated, nickel-plated
Socket	Contact	Phosphor bronze, nickel-undercoated, Mating part: gold-plated Crimping part: tin-plated (reflow treatment)
	Insulator	Glass-filled PBT, UL94-0, black
	Shell	Steel, copper-undercoated, nickel-plated

Characteristics

Current rating	3A, AC, DC (2A for 37-circuits)(AWG #20)
Voltage rating	250V AC, DC
Temperature range	-40°C to +85°C (including temperature rise in applying electrical current)
Contact resistance	Initial value/15mΩ max. After environmental testing/30mΩ max.
Insulation resistance	5,000MΩ min.
Withstanding voltage	1,000V AC/minute

Note: Contact JST for details.

Model number identification

Contact

- Series name: **J - S P 2 1 40**
- Product shape: S ... Chain, B ... Loose piece
 - Type of contact: P ... Pin contact, S ... Socket contact
 - Applicable wire: 1 ... AWG #24 to #20, 2 ... AWG #28 to #24
 - Material: 1 ... Brass(Pin contact), 3 ... Phosphor bronze(Socket contact)
 - Finish: 40 ... Gold-plated (flash), 42 ... 0.2micron gold-plated
43 ... 0.4micron gold-plated, 44 ... 0.76micron gold-plated, 90 ... Tin-plated (reflow treatment)

Note: Contact JST for special plating requirements.

Housing

- Series name: **J E C - 9 P - 3**
- Shell size: E, A, B, C
 - Wire connection style: C ... crimp style
 - Number of circuits: 9, 15, 25, 37
 - Connector style: P ... Plug, S ... Socket
 - Plating specification of shell: 3 ... nickel-plated

Note: The relationship between number of circuits and shell size is shown below.
9: E, 15: A, 25: B, 37: C

Standards

Recognized E60389

Certified LR20812

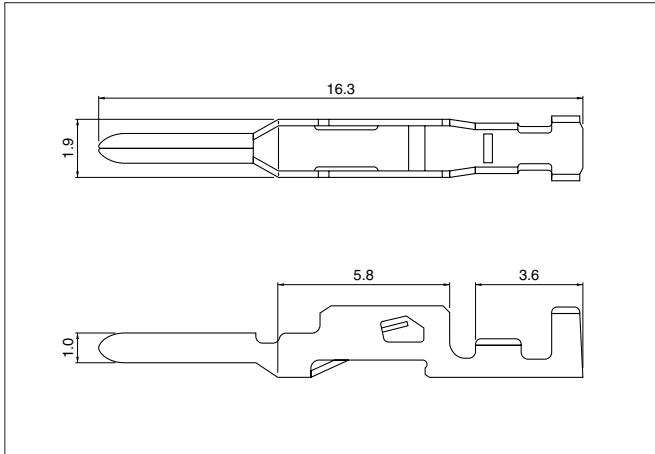
* Compliant with RoHS.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

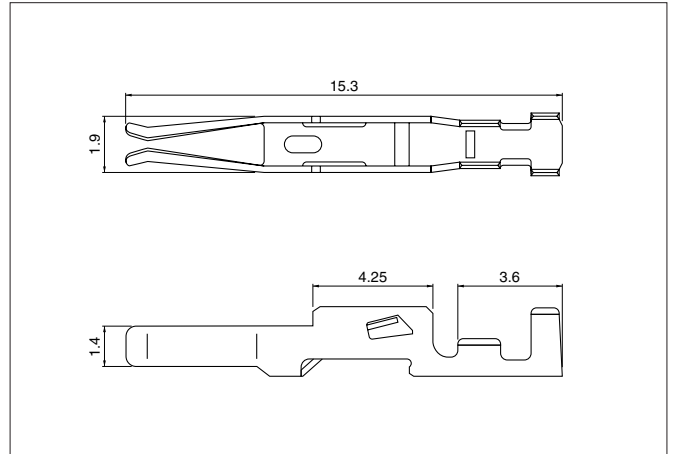
* Contact JST for details.

D SUBMINIATURE CONNECTOR J SERIES

Pin contact (for plug housing)



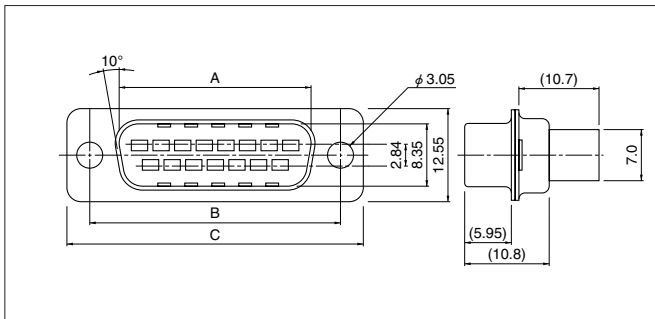
Socket contact (for socket housing)



Model No.			Applicable wire		Q'ty / reel
Pin contact		Socket contact	AWG #	Insulation O.D. (mm)	
Gold-plated	Tin-plated	Gold-plated			
J-SP1140	J-SP1190	J-SS1340	# 24~# 20	1.1~1.8	10,000
J-SP2140	J-SP2190	J-SS2340	# 28~# 24	0.9~1.3	

RoHS compliance Gold-plated products display (LF)(SN) on a label.

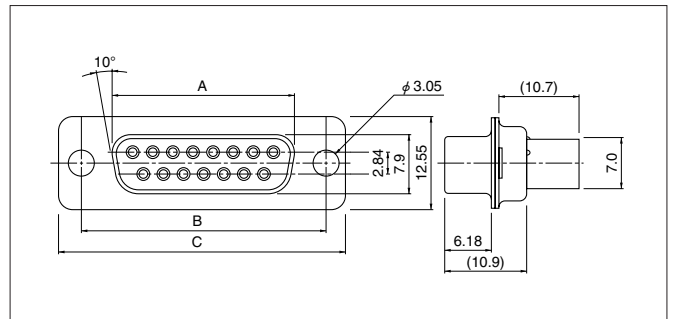
Plug housing



Cir- cuits	Model No.	Dimensions (mm)			Q'ty / box
		A	B	C	
9	JEC-9P-3	16.92	24.99	30.80	100
15	JAC-15P-3	25.25	33.32	39.14	100
25	JBC-25P-3	38.97	47.04	53.04	50
37	JCC-37P-3	55.43	63.50	69.32	50

RoHS compliance

Socket housing



Cir- cuits	Model No.	Dimensions (mm)			Q'ty / box
		A	B	C	
9	JEC-9S-3	16.34	24.99	30.80	100
15	JAC-15S-3	24.67	33.33	39.14	100
25	JBC-25S-3	38.38	47.04	53.04	50

RoHS compliance

Crimping machine, Applicator

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
J-SP1***	AP-K2N	MKS-L	MK/J-SP/SS1	APLMK J-SP/SS1
J-SS1***		*MKS-SC	SC/J-SP/SS1	APLSC J-SP/SS1
		MKS-L	MK/J-SP/SS1	APLMK J-SP/SS1
		*MKS-SC	SC/J-SP/SS1	APLSC J-SP/SS1
		J-SP2***	MKS-L	MK/J-SP/SS2
*MKS-SC			SC/J-SP/SS2	APLSC J-SP/SS2
J-SS2***		MKS-L	MK/J-SP/SS2	APLMK J-SP/SS2
		*MKS-SC	SC/J-SP/SS2	APLSC J-SP/SS2

Note: *Strip-crimp applicator



D SUBMINIATURE CONNECTOR J&JK SERIES

Accessories/EMI prevention shielding cover (J cover)

J COVER



J cover



Features

- This shielding cover is made of steel, formed by our advanced stamping technology, and nickel-plated.
 - The box-shaped cover completely encloses such EMI radiating areas as the connections between the connector and wires. The result is a superior shielding effect.
 - To install the shielding cover, simply align and press the upper and lower cover elements, then tighten the nuts. It then securely grips the round cables.
 - This cover is so compact, light and sturdy, that it can be used to cover the connectors of any input/output cable. Moreover, it is attractive in appearance.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
 * Contact JST for details.
 * Compliant with RoHS.

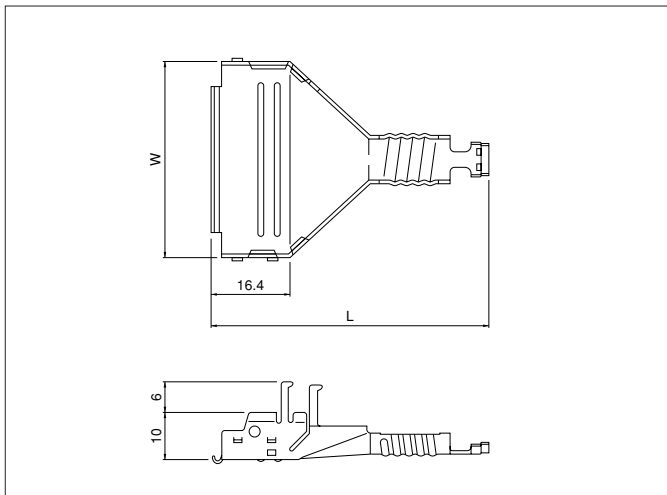
Standards

Recognized E60389

Applicable cable dimensions

Circuits	J series	9	15	25	37
	JK series	15	—	—	—
Cable outer diameter (mm)		7.0 ± 0.2		8.0 ± 0.2	10.0 ± 0.2

Shielding cover A



J series		JK series		Dimensions (mm)		Q'ty / box
Cir- cuits	Model No.	Cir- cuits	Model No.	W	L	
9	J-SC9A	15	JK-SC15A	19.4	42.0	200
15	J-SC15A	—	—	27.6	46.9	150
25	J-SC25A	—	—	41.4	57.0	100
37	J-SC37A	—	—	57.8	70.6	125

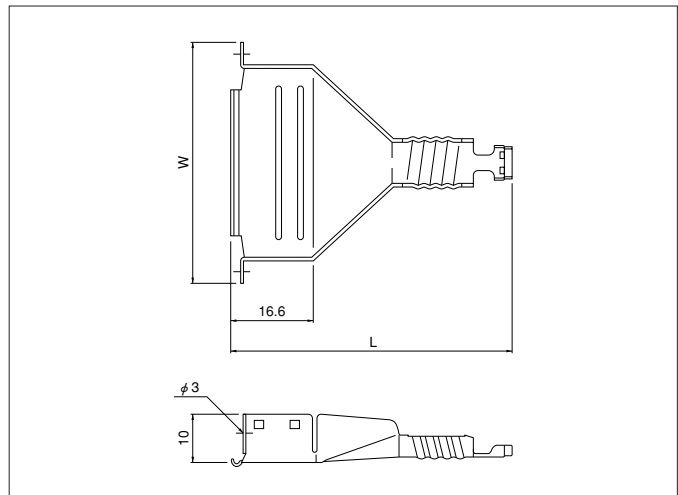
Material and Finish

Steel, copper- undercoated, nickel-plated

RoHS compliance

Note: The cover of the JK series 15-circuit connector is the same as that of the J series 9-circuit connector, except for the number of circuits indicated.

Shielding cover B



Circuits		Model No.	Dimensions (mm)		Q'ty / box
J series	JK series		W	L	
9	15	J-SC9B	30.0	(42.0)	200
15	—	J-SC15B	38.0	(46.9)	150
25	—	J-SC25B	52.0	(57.0)	150
37	—	J-SC37B	68.0	(70.6)	100

Material and Finish

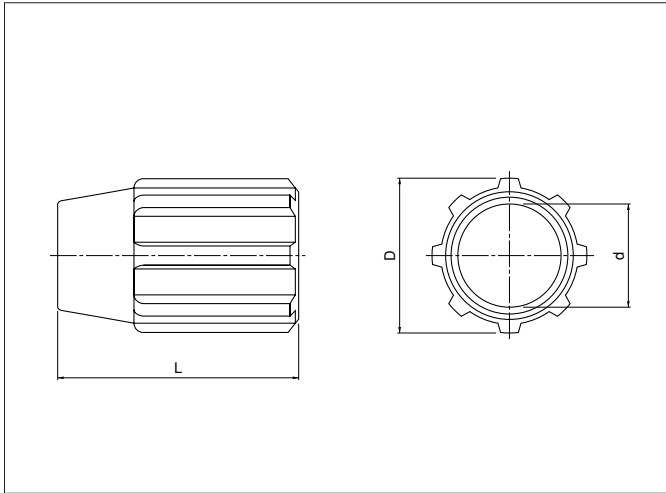
Steel, copper-undercoated, nickel-plated

RoHS compliance

Note: The cover of the JK series 15-circuit connector is the same as that of the J series 9-circuit connector.

D SUBMINIATURE CONNECTOR J&JK SERIES

Cover nut



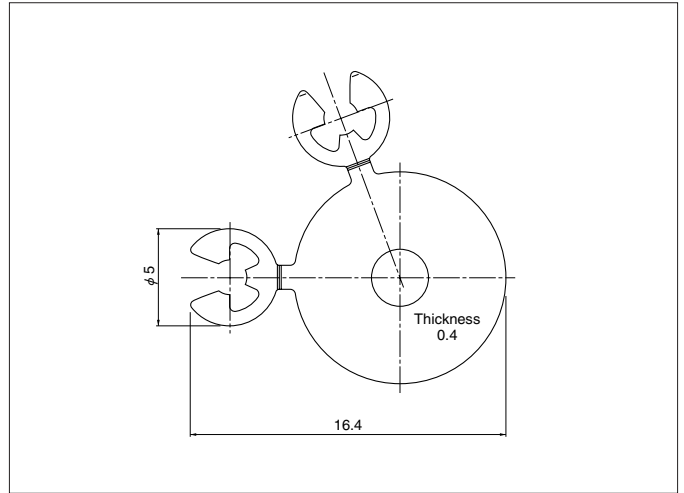
Circuits	Model No.	D	d	L	Q'ty / box
9	J-CN9 · 15	13.6	7.2	19.0	1,000
15					
25	J-CN25	16.4	8.4	25.0	1,000
37	J-CN37	18.8	10.4	28.0	1,500

Material

Glass-filled, PBT, UL94V-0, black

RoHS compliance

E-ring



Model No.	Q'ty / box
J-ER	5,000
Material	
Stainless steel	

RoHS compliance

Note: The cover nuts, lock screws and E-rings are used with both the J and JK series connectors.

Lock screw

No.4-40UNC (Inch thread)	M2.6 (Metric thread)	M3 (Metric thread)

Type of screw	Model No.	Q'ty / box
No.4-40UNC (Inch thread)	J-SL-1C	5,000
M2.6 (Metric thread)	J-SL-2C	5,000
M3 (Metric thread)	J-SL-3C	5,000

Material and Finish

Steel, copper-undercoated, nickel-plated

RoHS compliance

Use the following Model Nos. when ordering J-covers as a set.

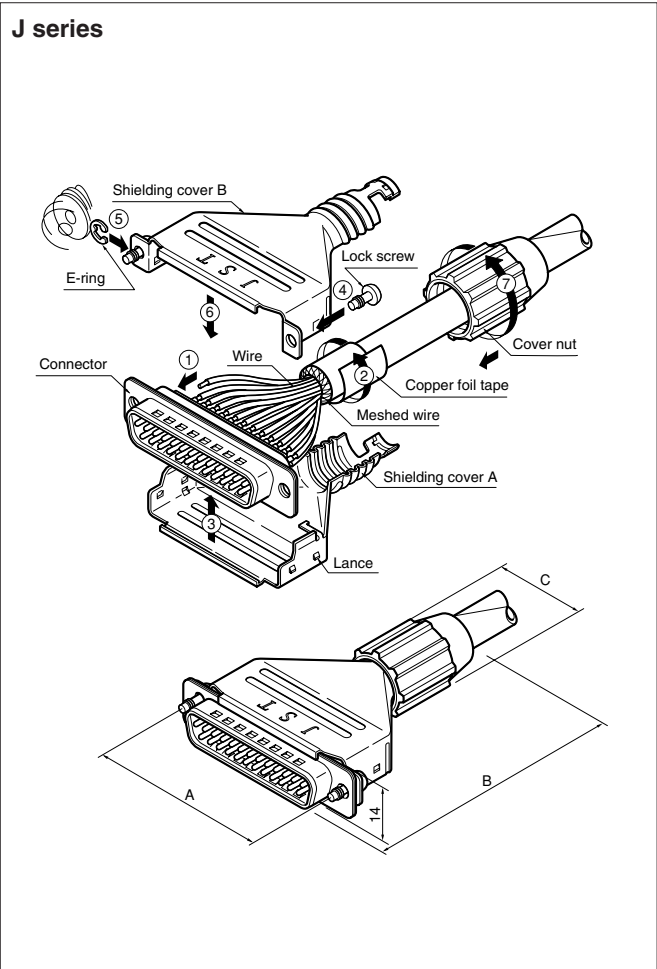
J series		JK series		Parts in one set	Q'ty / box
Circuits	Model No.	Circuits	Model No.		
9	J-C9-()C	15	JK-C15-()C	Shielding cover A 1 pc.	25
15	J-C15-()C	—	—	Shielding cover B 1 pc.	25
25	J-C25-()C	—	—	Cover nut 1 pc.	20
37	J-C37-()C	—	—	Lock screw 2 pcs.	10
				E-ring 1 set	

RoHS compliance

Note: In the above lock screw model numbers, the number in parentheses indicates the type of screw-1: Inch thread (No.4-40UNC), 2: Metric thread (M2.6), 3: Metric thread (M3).

D SUBMINIATURE CONNECTOR J&K SERIES

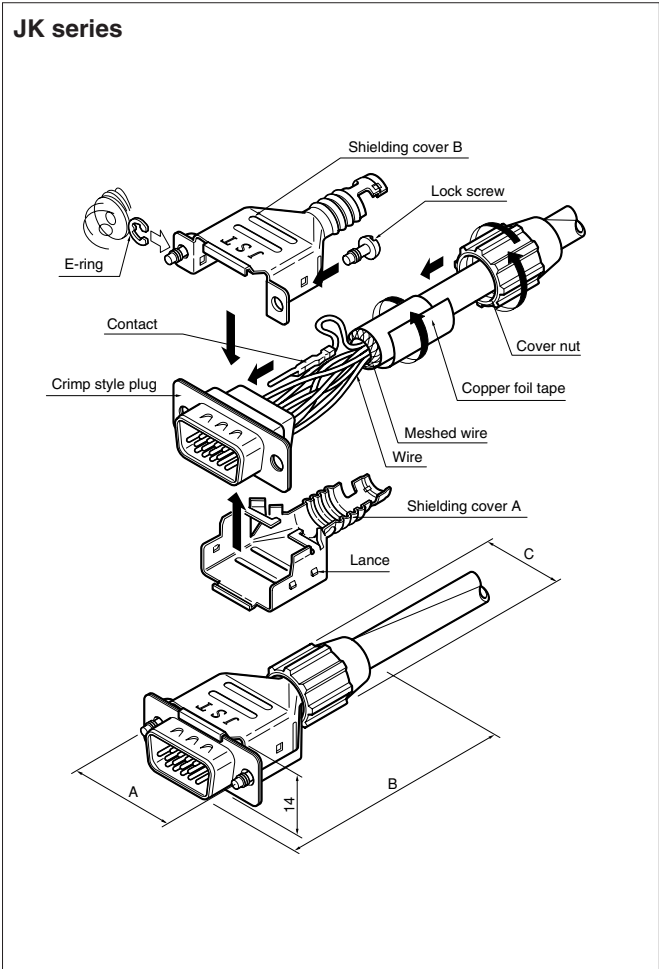
J-cover assembly procedure



Assembly procedure

1. Connect wires to the connector by soldering or crimping.
2. Fold back the braided shielding wire along the outside insulation and wind the copper foil tape around the shielding wire.
3. Install the connector into shielding cover A.
4. Screw the lock screws onto shielding cover B.
5. Install the E-rings.
6. Align shielding cover B with shielding cover A and press shielding cover B until it engages the lances of shielding cover A.
7. Tighten the cover nut until the predetermined position is reached.

Note: For details of the J-cover assembly procedure, please refer to the processing specifications separately available. The shielding effect of the J-cover is critically dependent on proper assembly.



Dimensions after assembly

Circuits		Dimensions (mm)		
J series	JK series	A	B	C
9	15	24.99	(49.0)	13.6
15	—	33.32	(53.0)	13.6
25	—	47.04	(64.5)	16.4
37	—	63.50	(78.5)	18.9



D SUBMINIATURE CONNECTOR J&K SERIES

Accessories/EMI prevention overmolding cover

MOLD COVER



Features

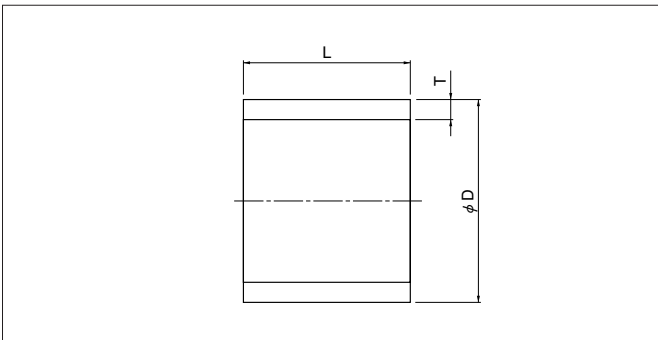
- This cover completely encloses all wire connections to the connector, and its braided wire crimp section ensures a reliable ground connection. The result is excellent shielding.
- This cover is sturdy enough to withstand the high pressure necessary during overmolding. It can thus be finish-molded directly.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Compliant with RoHS.

Applicable cable diameter

Circuits		Cable O.D.(mm)
J series	JK series	
9	15	8.6 \pm 0.2
15	—	7.6 \pm 0.2
25	—	8.6 \pm 0.2

Note: Contact JST for cables other than those listed above.

Ferrule



Circuits		Ferrule	Dimensions (mm)		
J series	JK series		φ D	T	L
9 • 25	15	A	8.0	0.5	4.0
		B	11.3	0.6	8.0
15	—	A	7.0	0.5	4.0
		B	10.5	0.6	8.0

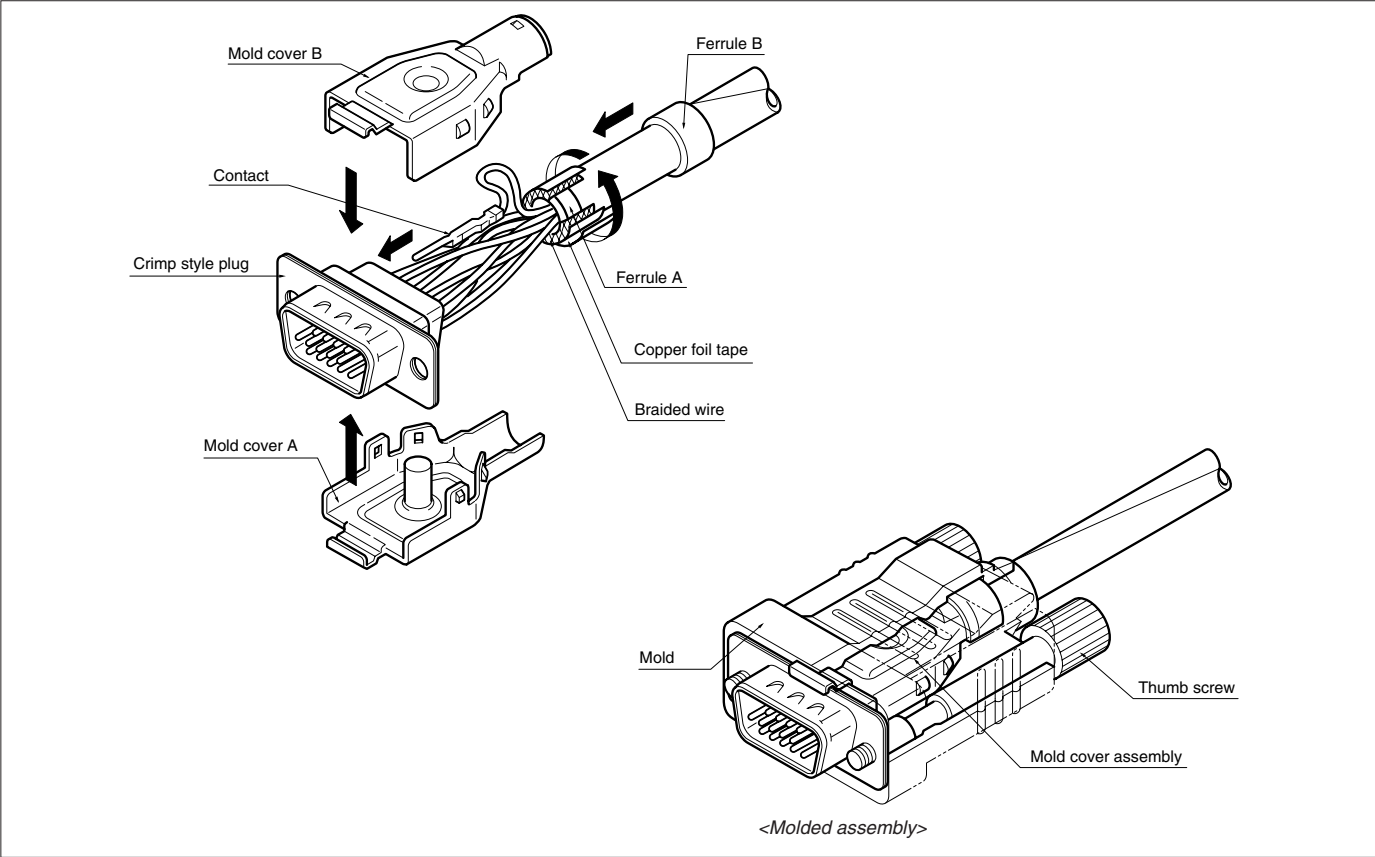
RoHS compliance

Mold cover A		Mold cover B	
JK-MC15A-3 J-MC15A	J-MC25A-4	JK-MC15B-3 J-MC15B	J-MC25B-4
<p>*Dimensions in () are those for the J-MC15A.</p>		<p>*Dimensions in () are those for the J-MC15B.</p>	

RoHS compliance

D SUBMINIATURE CONNECTOR J&K SERIES

Mold cover assembly procedure



Note: Contact JST for thumb screws.

Assembly procedure

1. Processing braided shielding wire

Pass the cable through ferrule B and remove the insulation at the end of the cable. Install ferrule A and fold back the braided shielding wire along the outside insulation. Then wind the copper foil tape around the shielding wire.

2. Connecting the wires to the contacts

Connect the wires to the contacts by crimping and insert the contacts into the housing.

3. Assembling the mold covers

Align mold cover B with mold cover A and press mold cover B until it engages the lances of mold cover A. Install ferrule B over the cable holding section of the cover assembly and crimp ferrule B. This completes the assembly.

Circuits		Parts name	Model No.	Material and Finish	Q'ty / box or bag
J series	JK series				
9	15	Mold cover A	JK-MC15A-3	Steel, copper-undercoated, nickel-plated	500
		Mold cover B	JK-MC15B-3		
		Ferrule A	JK-FL15A-8.0C	Copper, tin-plated	1,000
		Ferrule B	JK-FL15B-11.3		500
15	—	Mold cover A	J-MC15A	Steel, copper-undercoated, nickel-plated	200
		Mold cover B	J-MC15B		
		Ferrule A	J-FL15A-7.0C	Copper, tin-plated	1,000
		Ferrule B	J-FL15B-10.5		500
25	—	Mold cover A	J-MC25A-4	Steel, copper-undercoated, nickel-plated	250
		Mold cover B	J-MC25B-4		
		Ferrule A	JK-FL15A-8.0C	Copper, tin-plated	1,000
		Ferrule B	JK-FL15B-11.3		500

RoHS compliance

Crimping machine, Applicator

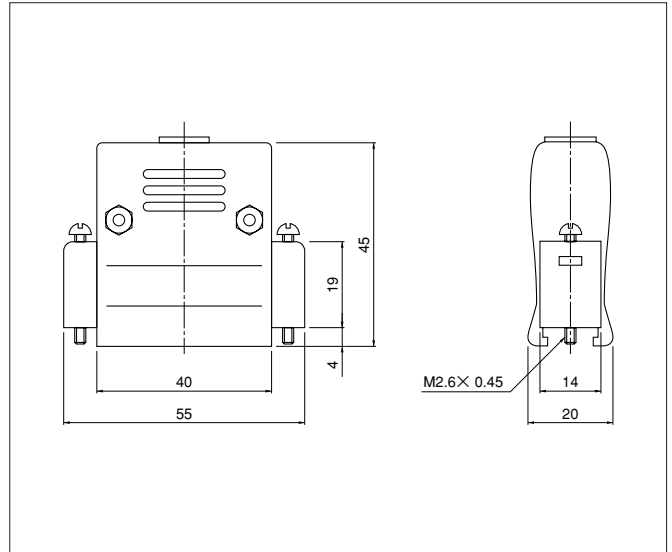
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
JK-FL15B-11.3	AP-K2N	MKS-L-RG	MK/JK-MC15	APLMK JK-MC15
J-FL15B-10.5			MK/J-MC15	APLSC JK-MC15



D SUBMINIATURE CONNECTOR J SERIES

Accessories/Covers

EMI SHIELDING ALUMINUM DIE-CAST COVER (for 25-circuit J series connectors)



Features

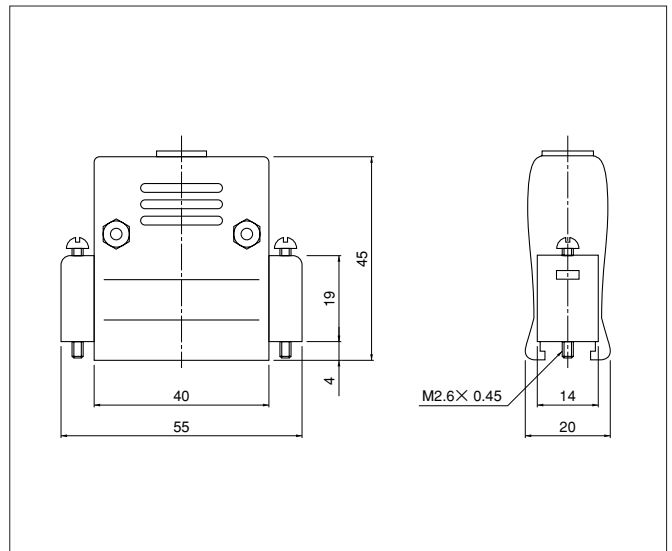
- This cover is made of aluminum die-cast .
- The D subminiature connector and all its wire connections can be completely covered to provide excellent shielding.
- This EMI shielding cover can be used together with the hexagonal and rectangular metric lock screws specified in JIS-C6361. This cover is ideally suited for RS-232C cable connectors.

Model No.	Parts in one set	Cover material	Q'ty / box
JCB-25EM	Cover A - 1 pc. Cover B - 1 pc. Lock screw - 2 pcs. Cable clamp - 2 pcs. Cover screws and nuts - 2 pcs. for each Clamp screws - 2 pcs.	Aluminum die-cast	10

RoHS compliance

- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Compliant with RoHS.

JIS STYLE PLASTIC COVER (for 25-circuit J series connectors)



Features

- Molded plastic cover.
- This cover can be used together with the hexagonal and rectangular metric lock screws specified in JIS-C-6361.

* Compliant with RoHS.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

Model No.	Parts in one set	Cover material	Q'ty / box
JCB-25M	Covers - 2 pcs. Lock screw - 2 pcs. Cable clamp - 2 pcs. Cover screws and nuts - 2 pcs. for each Clamp screws - 2 pcs.	ABS resin	10

RoHS compliance




D SUBMINIATURE CONNECTOR J·JH·JK & KH SERIES

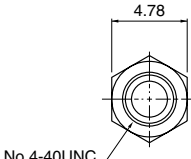
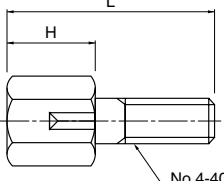
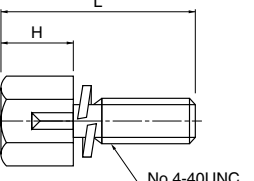
Accessories/Lock screw block

A variety of accessories are available for the D subminiature connectors.

LOCK SCREW BLOCK



**Hexagonal lock screw block
(inch thread: No.4-40UNC)**






Type A

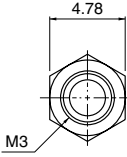
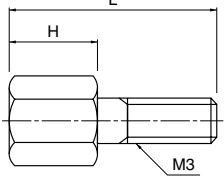
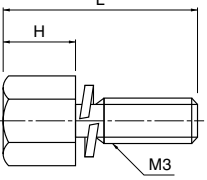
Type B

Applicable series	J series right angle through-hole type JK series straight through-hole type	JK series right angle through-hole type	J series straight through-hole type	JH series right angle through-hole type KH series right angle through-hole type	Dimension H (mm)	Type	Attachment	Q'ty / box
Dimension / Model No.	13.1	15.0	10.0	11.8				
Dimension L (mm)	13.1	15.0	10.0	11.8				
Model No.	JFS-4S-C1N	KFS-4S-C1N	—	—	5.5	A	Spring washer .. 1 pc. Nut 1 pc.	2,000
	JFS-4S-B1W	KFS-4S-B1W	SFS-4S-B1W	HFS-4S-B1W	4.8		Spring washer .. 1 pc.	
	JFS-4S-C1W	KFS-4S-C1W	SFS-4S-C1W	—	5.5	B	Hexagonal lock screw & spring washer are integrated	
	JFS-4S-B1WM	KFS-4S-B1WM	SFS-4S-B1WM	HFS-4S-B1WM	4.8			
	JFS-4S-C1WM	KFS-4S-C1WM	SFS-4S-C1WM	HFS-4S-C1WM	5.5			

RoHS compliance



**Hexagonal lock screw block
(metric thread: M3)**

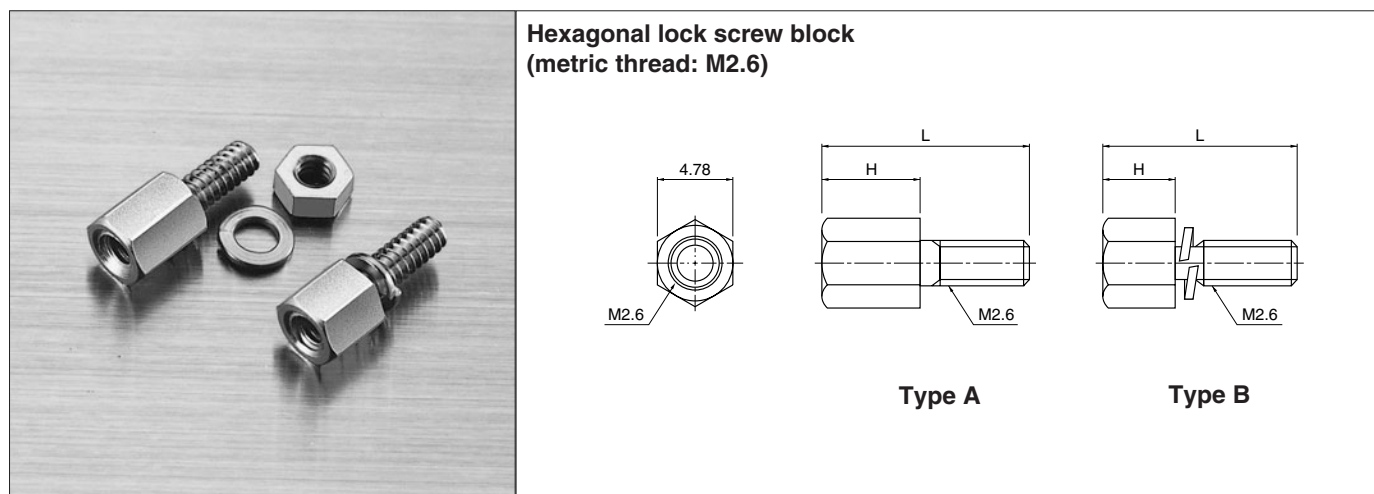
Type A

Type B

Applicable series	J series right angle through-hole type JK series straight through-hole type	JK series right angle through-hole type	J series straight through-hole type	JH series right angle through-hole type KH series right angle through-hole type	Dimension H (mm)	Type	Attachment	Q'ty / box
Dimension / Model No.	13.1	15.0	10.0	11.8				
Dimension L (mm)	13.1	15.0	10.0	11.8				
Model No.	JFS-3S-C1N	KFS-3S-C1N	—	—	5.5	A	Spring washer .. 1 pc. Nut 1 pc.	2,000
	JFS-3S-B1W	—	SFS-3S-B1W	—	4.8		Spring washer .. 1 pc.	
	—	KFS-3S-C1W	SFS-3S-C1W	HFS-3S-C1W	5.5	B	Hexagonal lock screw & spring washer are integrated	
	—	—	SFS-3S-B1WM	HFS-3S-B1WM	4.8			
	JFS-3S-C1WM	KFS-3S-C1WM	SFS-3S-C1WM	HFS-3S-C1WM	5.5			

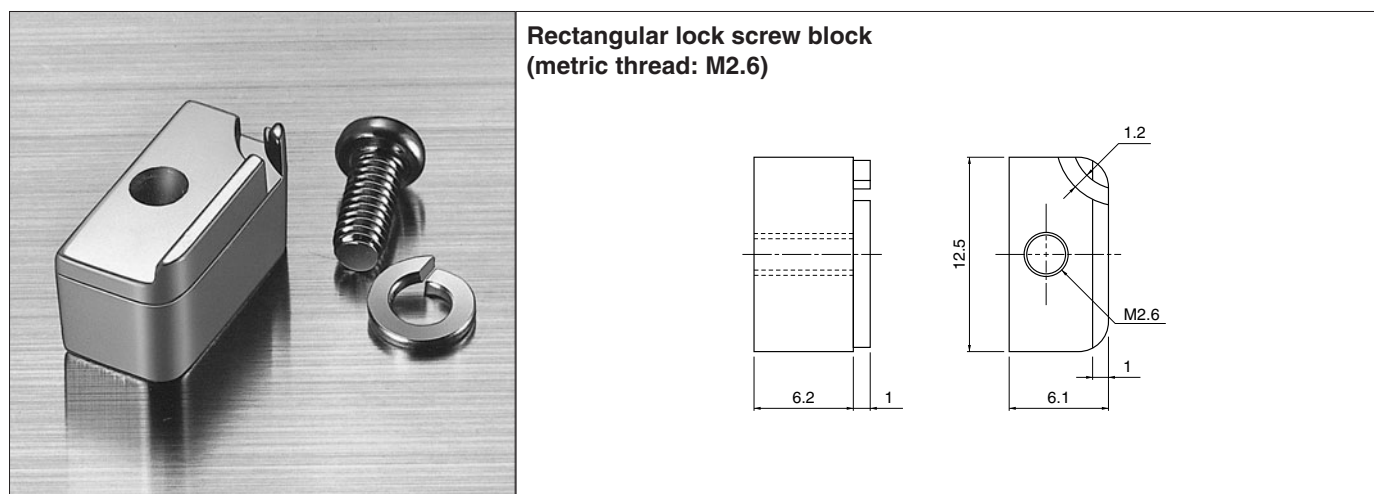
RoHS compliance

D SUBMINIATURE CONNECTOR J·JH·JK&KH SERIES



Applicable series	J series right angle through-hole type	JK series right angle through-hole type	J series straight through-hole type	JH series right angle through-hole type KH series right angle through-hole type	Dimension H (mm)	Type	Attachment	Q'ty / box
Dimension / Model No.	13.1	15.0	10.0	11.8				
Dimension L (mm)								
Model No.	JFS-2.6S-C1N	KFS-2.6S-C1N	—	—	5.5	A	Spring washer ... 1 pc. Nut 1 pc.	2,000
	JFS-2.6S-B1W	KFS-2.6S-B1W	SFS-2.6S-B1W	HFS-2.6S-B1W	4.8		Spring washer ... 1 pc.	
	—	KFS-2.6S-C1W	SFS-2.6S-C1W	HFS-2.6S-C1W	5.5	B	Hexagonal lock screw & spring washer are integrated	
	JFS-2.6S-B1WM	KFS-2.6S-B1WM	SFS-2.6S-B1WM	HFS-2.6S-B1WM	4.8			
	JFS-2.6S-C1WM	KFS-2.6S-C1WM	SFS-2.6S-C1WM	HFS-2.6S-C1WM	5.5			

RoHS compliance



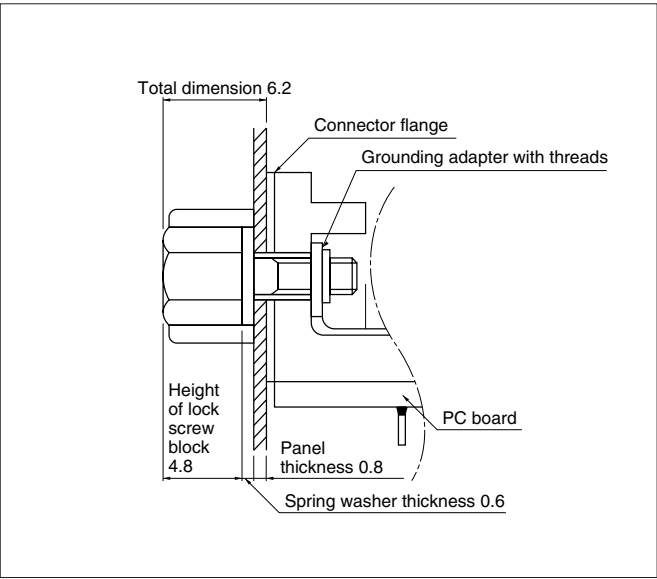
Model No.	Attachment	Q'ty / box
JFS-2.6R-N	Spring washer – 1 pc. Set screw – 1 pc.	1,000

RoHS compliance

D SUBMINIATURE CONNECTOR J·JH·JK&KH SERIES

Application examples of hexagonal lock screw blocks

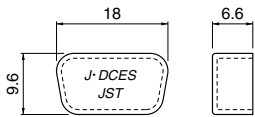
- The resulting total dimension from the connector flange to the top of the hexagonal lock screw block must be 6.2mm after assembly.
- The D subminiature connector can be installed on the Panel by simply tightening the hexagonal lock screw block together with grounding adapter, which has an identical thread to that of the F, G, and H types.



DUST COVER (for receptacles)



Type A

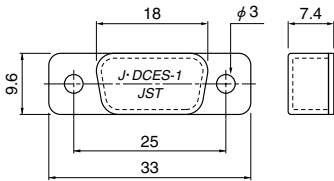


Type	Circuits		Model No.	Q'ty / box
	J series	JK series		
A	9	15	J-DCES	1,000
B			J-DCES-1	
Material				
PA, UL94V-0, black				

RoHS compliance



Type B

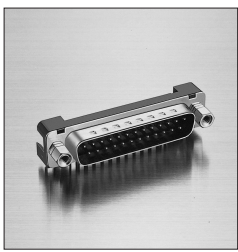


EXTRACTION TOOL



With this tool, contacts (connected to wires by crimping) can be easily removed if they are improperly inserted into plug and receptacle housings.

Applicable Connector		Model No.
J series		DEJ-0.3
JK series	Plug	KEJ-0.7
	Receptacle	KEJ-0.4



D SUBMINIATURE JH SERIES

Right angle through-hole plug and socket

RIGHT ANGLE THROUGH-HOLE PLUG AND SOCKET



Right angle through-hole plug
(with hexagonal lock screw blocks)



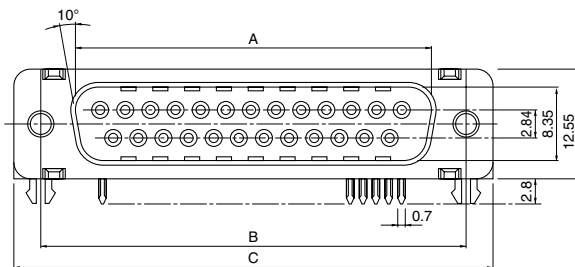
Right angle through-hole socket (without lock screw blocks, but
with grounding adapters having a No.4-40UNC inch thread)

Features

- The depth is trimmed to 8.5mm, reducing the surface mounting area by 33% compared with our J series subminiature connectors.
- The weight of the JH series is 10% lighter than our J series.
- EJH series D subminiature connectors with noise filters are available.

JH series	J series

Right angle through-hole plug



9-circuits : 5.95
25-circuits : 5.84

9-circuits : 14.35
25-circuits : 14.34

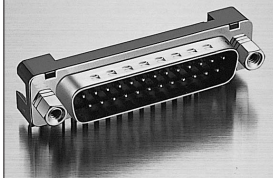
H: Height of the lock screw block (for Types A, B & J)

Circuits	Model No.		Dimensions (mm)					Q'ty / box
	Gold-plated (flash) plug	Gold-plated 0.76micron	A	B	C	D	E	
9	JHEY-9P-1A**	JHEY-9P-1A**14	16.90	24.99	30.8	8.4	4.9	100
25	JHBY-25P-1A**	JHBY-25P-1A**14	38.97	47.04	53.0	8.5	5.0	40

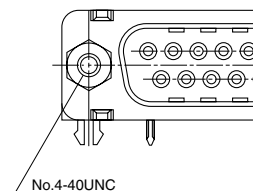
RoHS compliance This product displays (LF)(SN) on a label.

Note: ** shows the location where a two-digit code (see the table below for codes) should be entered. For example, if a gold-plated (flash) receptacle with hexagonal lock screw blocks having a No. 4-40UNC inch thread and with grounding adapters having a spring lock device is required, specify the model number as JHEY-9P-1A3A.

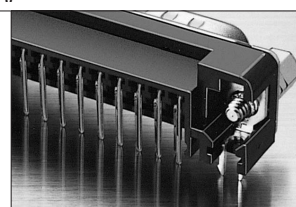
Type A



With hexagonal lock screw blocks
(H: 6.3mm)
having a No.4-40UNC inch thread



With grounding adapters
with a spring lock device



3A

D SUBMINIATURE CONNECTOR JH SERIES

Specifications

Materials

Part name		Material and Finish
Contact	Plug	Brass, nickel-undercoated, Mating part; gold-plated Solder tell; tin-plated (reflow treatment)
	Socket	Phosphor bronze, nickel-undercoated, Mating part; gold-plated Solder tell; tin-plated (reflow treatment)
Insulator		Glass-filled PBT, UL94V-0, black
Shell		Steel, copper-undercoated, nickel-plated
Hexagonal lock screw block		Steel, copper-undercoated, nickel-plated
Grounding adapter with spring lock device		Brass, nickel-undercoated, tin/copper alloy-plated

Characteristics

Current rating	3A AC, DC
Voltage rating	250V AC, DC
Temperature range	-40°C to +85°C (including temperature rise in applying electrical current)
Contact resistance	Initial value/15mΩ max. After environmental testing/30mΩ max.
Insulation resistance	5,000MΩ min.
Withstanding voltage	1,000V AC/minute
Applicable PC board thickness	1.6mm

Note: Contact JST for details.

Model number identification

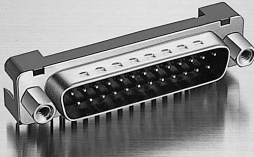
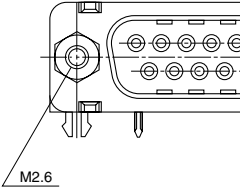
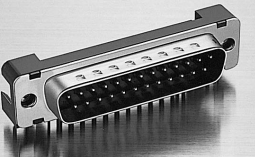
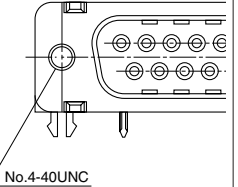
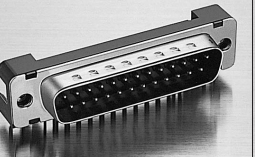
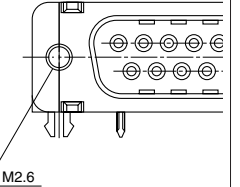
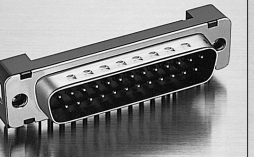
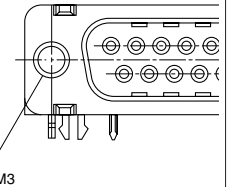
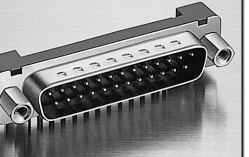
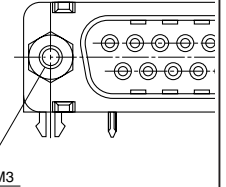
	JH	B	Y	-	25	P	-	1A	3	F	14
• Series name	JH	B	Y	-	25	P	-	1A	3	F	14
• Shell size: E, B		B									
• Wire connection type: Y ... Right angle through-hole type		Y									
• Number of circuits: 9, 25					25						
• Connector type: P ... Plug, S ... Socket						P					
• Connector construction/dimensions: Standard of the JH series right angle through-hole type											
• Types of grounding adapter: 3 ... With grounding adapters having a spring lock device											
• Type of lock screw block: A ... With hexagonal lock screw blocks having a No. 4-40UNC inch thread B ... With hexagonal lock screw blocks having an M2.6 thread F ... Without lock screw blocks, but with grounding adapters having a No.4-40UNC inch thread G ... Without lock screw blocks, but with grounding adapters having an M2.6 thread H ... Without lock screw blocks, but with grounding adapters having an M3 thread J ... With hexagonal lock screw blocks having an M3 thread											
• Finish of mating part Blank ... Gold-plated (flash) 12 ... 0.2micron gold-plated 13 ... 0.4micron gold-plated 14 ... 0.76micron gold-plated											

Note: Contact JST for special plating requirements.

Standards

Recognized E60389 Certified LR20812

- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Type B	Type F	Type G	Type H	Type J
 <p>With hexagonal lock screw blocks (H: 6.3mm) having an M2.6 thread</p> 	 <p>Without lock screw blocks F, G, H: Grounding adapters have a thread (*1) for securing separately-purchased lock screw blocks (*2)</p> <p>*1: No.4-40UNC inch thread *2: Model number HFS-4S-()1W(M)</p> 	 <p>*1: M2.6 thread *2: Model number HFS-2.6S-()1W(M)</p> 	 <p>*1: M3 thread *2: Model number HFS-3S-()1W(M)</p> 	 <p>With hexagonal lock screw blocks (H: 6.3mm) having an M3 thread</p> 
3B	3F	3G	3H	3J

D SUBMINIATURE CONNECTOR JH SERIES

Right angle through-hole socket

H: Height of the lock screw block (for Types A, B & J)

Circuits	Model No.		Dimensions (mm)					Q'ty / box
	Gold-plated (flash) socket	Gold-plated [0.76micron] socket	A	B	C	D	E	
9	JHEY-9S-1A**	JHEY-9S-1A**14	16.34	24.99	30.8	8.4	4.9	100
25	JHBY-25S-1A**	JHBY-25S-1A**14	38.38	47.04	53.0	8.5	5.0	40

RoHS compliance This product displays (LF)(SN) on a label.
Note: ** shows the location where a two-digit code (see the table below for codes) should be entered. For example, if a 9-circuit gold-plated (flash) socket with hexagonal lock screw blocks having a No. 4-40UNC inch thread and with grounding adapters having a spring lock device is required, specify the model number as JHEY-9S-1A3A.

Type A

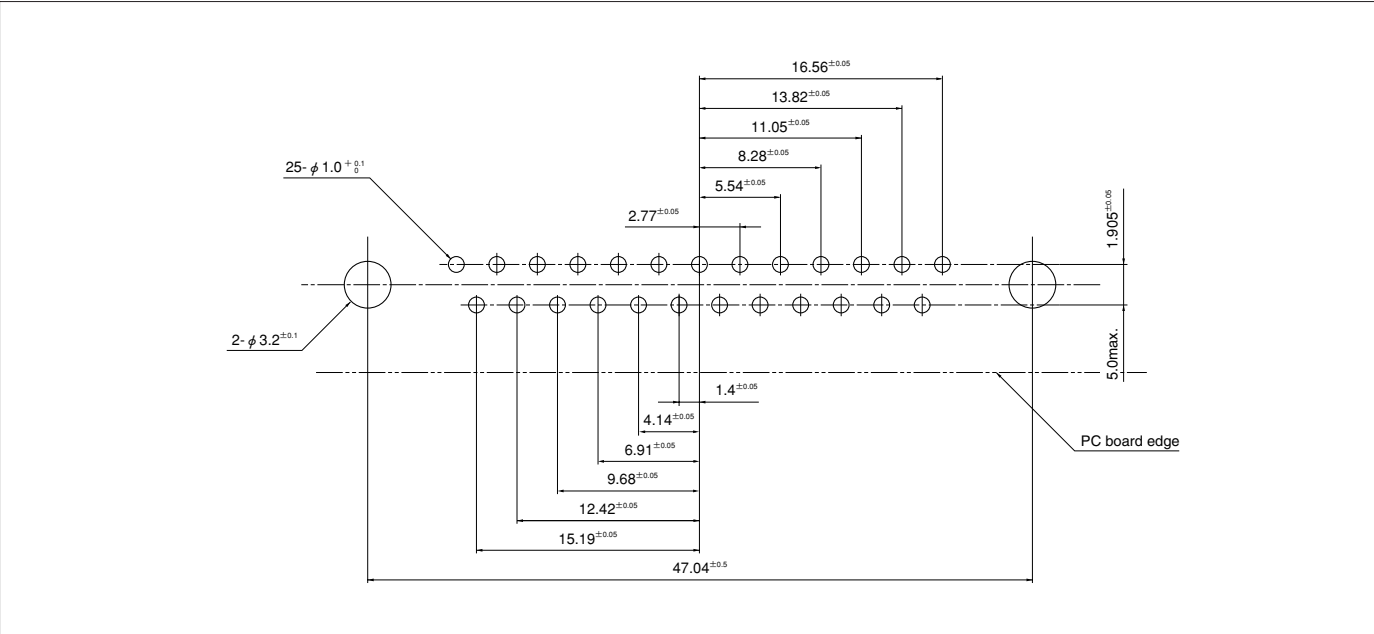
With hexagonal lock screw blocks (H: 6.3mm) having a No.4-40UNC inch thread

No.4-40UNC

With grounding adapters with a spring lock device






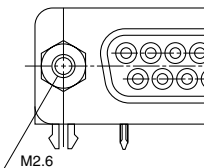
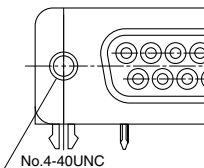
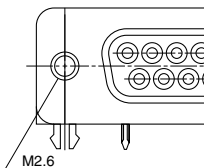
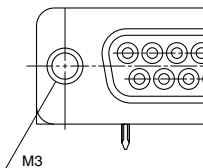
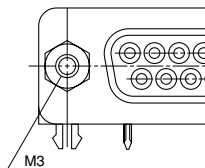
3A

PC board layout (viewed from component side)

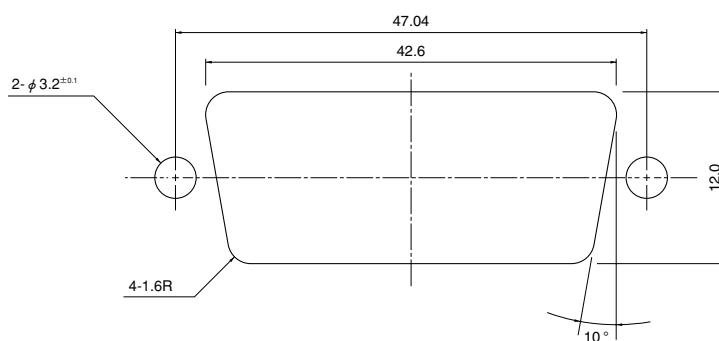


Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method.
The dimensions above should serve as a guideline. Contact JST for details.

D SUBMINIATURE CONNECTOR JH SERIES

Type B	Type F	Type G	Type H	Type J
				
With hexagonal lock screw blocks (H: 6.3mm) having an M2.6 thread	Without lock screw blocks F, G, H: Grounding adapters have a thread (*1) for securing separately-purchased lock screw blocks (*2)			With hexagonal lock screw blocks (H: 6.3mm) having an M3 thread
	*1: No.4-40UNC inch thread *2: Model number HFS-4S-()1W(M) 	*1: M2.6 thread *2: Model number HFS-2.6S-()1W(M) 	*1: M3 thread *2: Model number HFS-3S-()1W(M) 	
3B	3F	3G	3H	3J

Panel layout



Note: The dimensions above should serve as a guideline. Contact JST for details.




D SUBMINIATURE CONNECTOR J·JH·JK & KH SERIES

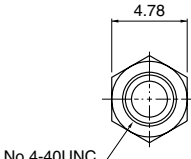
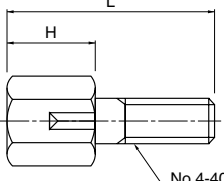
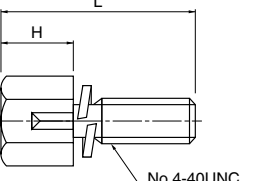
Accessories/Lock screw block

A variety of accessories are available for the D subminiature connectors.

LOCK SCREW BLOCK



**Hexagonal lock screw block
(inch thread: No.4-40UNC)**






Type A

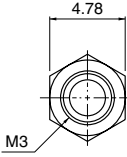
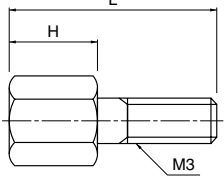
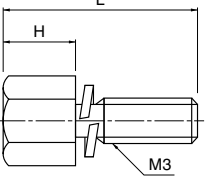
Type B

Applicable series	J series right angle through-hole type JK series straight through-hole type	JK series right angle through-hole type	J series straight through-hole type	JH series right angle through-hole type KH series right angle through-hole type	Dimension H (mm)	Type	Attachment	Q'ty / box
Dimension / Model No.	13.1	15.0	10.0	11.8				
Model No.	JFS-4S-C1N	KFS-4S-C1N	—	—	5.5	A	Spring washer .. 1 pc. Nut 1 pc.	2,000
	JFS-4S-B1W	KFS-4S-B1W	SFS-4S-B1W	HFS-4S-B1W	4.8		Spring washer .. 1 pc.	
	JFS-4S-C1W	KFS-4S-C1W	SFS-4S-C1W	—	5.5	B	Hexagonal lock screw & spring washer are integrated	
	JFS-4S-B1WM	KFS-4S-B1WM	SFS-4S-B1WM	HFS-4S-B1WM	4.8			
	JFS-4S-C1WM	KFS-4S-C1WM	SFS-4S-C1WM	HFS-4S-C1WM	5.5			

RoHS compliance



**Hexagonal lock screw block
(metric thread: M3)**

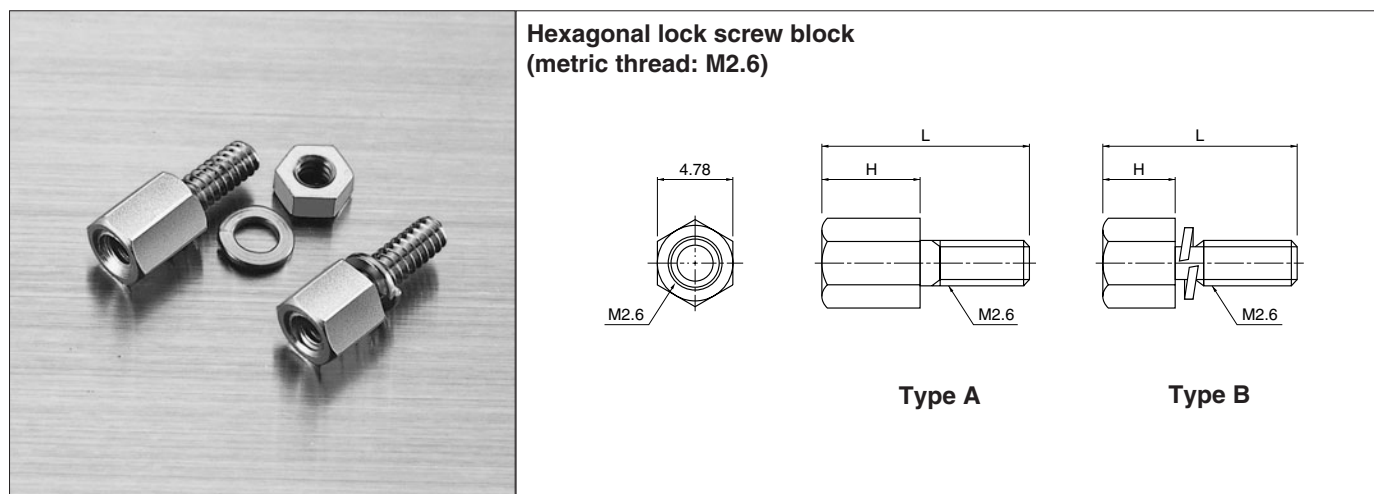
Type A

Type B

Applicable series	J series right angle through-hole type JK series straight through-hole type	JK series right angle through-hole type	J series straight through-hole type	JH series right angle through-hole type KH series right angle through-hole type	Dimension H (mm)	Type	Attachment	Q'ty / box
Dimension / Model No.	13.1	15.0	10.0	11.8				
Model No.	JFS-3S-C1N	KFS-3S-C1N	—	—	5.5	A	Spring washer .. 1 pc. Nut 1 pc.	2,000
	JFS-3S-B1W	—	SFS-3S-B1W	—	4.8		Spring washer .. 1 pc.	
	—	KFS-3S-C1W	SFS-3S-C1W	HFS-3S-C1W	5.5	B	Hexagonal lock screw & spring washer are integrated	
	—	—	SFS-3S-B1WM	HFS-3S-B1WM	4.8			
	JFS-3S-C1WM	KFS-3S-C1WM	SFS-3S-C1WM	HFS-3S-C1WM	5.5			

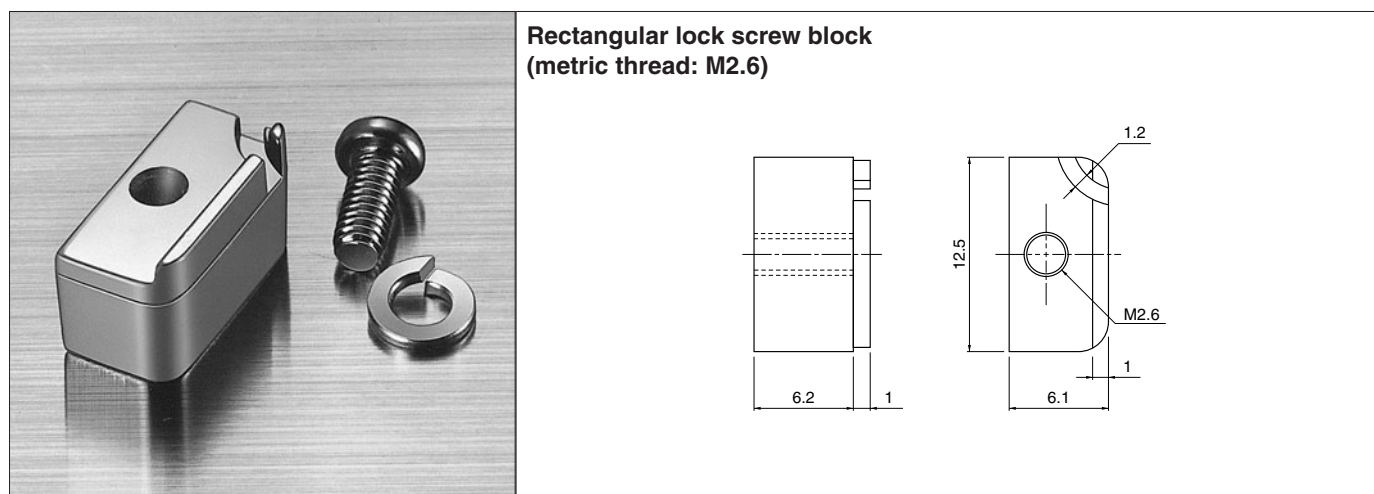
RoHS compliance

D SUBMINIATURE CONNECTOR J·JH·JK&KH SERIES



Applicable series	J series right angle through-hole type JK series straight through-hole type	JK series right angle through-hole type	J series straight through-hole type	JH series right angle through-hole type KH series right angle through-hole type	Dimension H (mm)	Type	Attachment	Q'ty / box
Dimension L (mm)	13.1	15.0	10.0	11.8				
Model No.	JFS-2.6S-C1N	KFS-2.6S-C1N	—	—	5.5	A	Spring washer ... 1 pc. Nut 1 pc.	2,000
	JFS-2.6S-B1W	KFS-2.6S-B1W	SFS-2.6S-B1W	HFS-2.6S-B1W	4.8		Spring washer ... 1 pc.	
	—	KFS-2.6S-C1W	SFS-2.6S-C1W	HFS-2.6S-C1W	5.5	B	Hexagonal lock screw & spring washer are integrated	
	JFS-2.6S-B1WM	KFS-2.6S-B1WM	SFS-2.6S-B1WM	HFS-2.6S-B1WM	4.8			
	JFS-2.6S-C1WM	KFS-2.6S-C1WM	SFS-2.6S-C1WM	HFS-2.6S-C1WM	5.5			

RoHS compliance



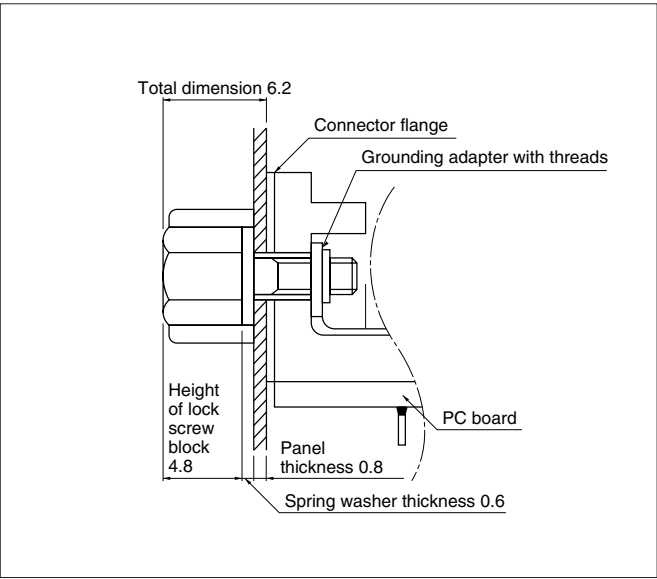
Model No.	Attachment	Q'ty / box
JFS-2.6R-N	Spring washer – 1 pc. Set screw – 1 pc.	1,000

RoHS compliance

D SUBMINIATURE CONNECTOR J·JH·JK&KH SERIES

Application examples of hexagonal lock screw blocks

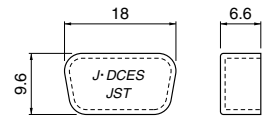
- The resulting total dimension from the connector flange to the top of the hexagonal lock screw block must be 6.2mm after assembly.
- The D subminiature connector can be installed on the Panel by simply tightening the hexagonal lock screw block together with grounding adapter, which has an identical thread to that of the F, G, and H types.



DUST COVER (for receptacles)



Type A

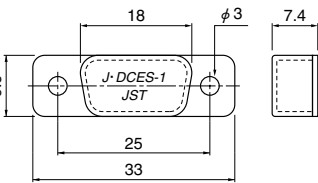


Type	Circuits		Model No.	Q'ty / box
	J series	JK series		
A	9	15	J-DCES	1,000
B			J-DCES-1	
Material				
PA, UL94V-0, black				

RoHS compliance



Type B



EXTRACTION TOOL



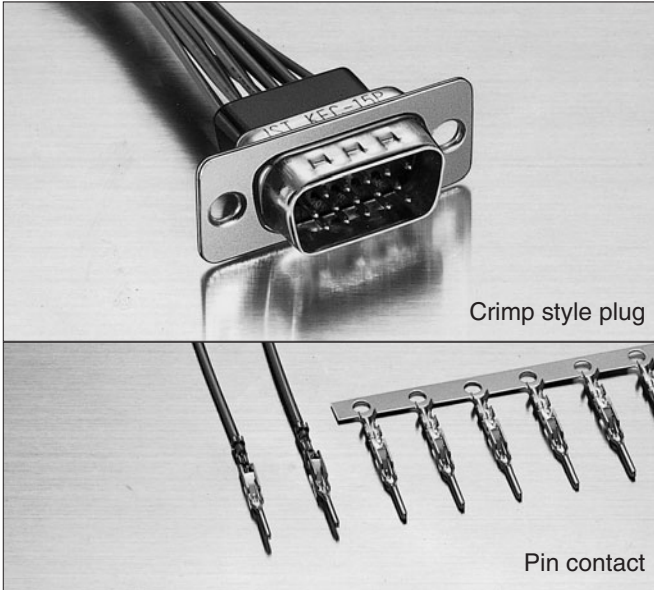
With this tool, contacts (connected to wires by crimping) can be easily removed if they are improperly inserted into plug and receptacle housings.

Applicable Connector		Model No.
J series		DEJ-0.3
JK series	Plug	KEJ-0.7
	Receptacle	KEJ-0.4



D SUBMINIATURE JK SERIES CONNECTION CRIMP style plug and socket

CRIMP STYLE PLUG AND SOCKET



Crimp style plug

Pin contact



Crimp style socket

Socket contact

Features

- The dimples in the shell provide the ground connection and are an important factor in preventing electromagnetic interference.
- The contact has a retention lance that makes assembly to the housing smooth and secure.

Standards

Recognized E60389 Certified LR20812

- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Specifications

Materials

Connector	Part name	Material and Finish
Plug	Contact	Brass, nickel-undercoated, Mating part: gpld-plated Crimping part: tin-plated (reflow treatment)
	Insulator	Glass-filled PBT, UL94V-0, black
	Shell	Steel, copper-undercoated, nickel-plated
Socket	Contact	Phosphor bronze, nickel-undercoated, Mating part: gpld-plated Crimping part: tin-plated (reflow treatment)
	Insulator	Glass-filled PBT, UL94-0, black
	Shell	Steel, copper-undercoated, nickel-plated

Characteristics

Current rating	1.0A, AC, DC(AWG #24)
Voltage rating	250V AC, DC
Temperature range	-40°C to +85°C (including temperature rise in applying electrical current)
Contact resistance	Initial value/15mΩ max. After environmental testing/30mΩ max.
Insulation resistance	5,000MΩ min.
Withstanding voltage	1,000V AC/minute

Note: Contact JST for details.

Model number identification

Contact

- JK - S P 2 1 40**
- Series name
 - Product shape: S ... Chain, B ... Loose piece
 - Type of contact: P ... Pin contact, S ... Socket contact
 - Applicable wire: 2 ... AWG #28 to #24
 - Material: 1 ... Brass(Pin contact), 3 ... Phosphor bronze(Socket contact)
 - Finish of mating part
 - 40 ... Gold-plated (flash) 42 ... 0.2micron gold-plated
 - 43 ... 0.4micron gold-plated 43 ... 0.76micron gold-plated

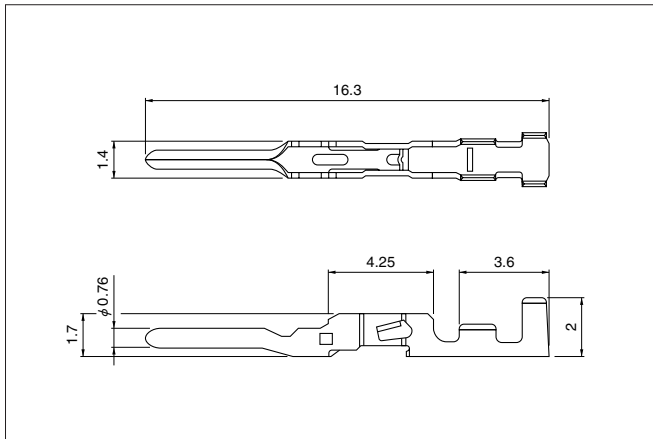
Note: Contact JST for special plating requirements.

Housing

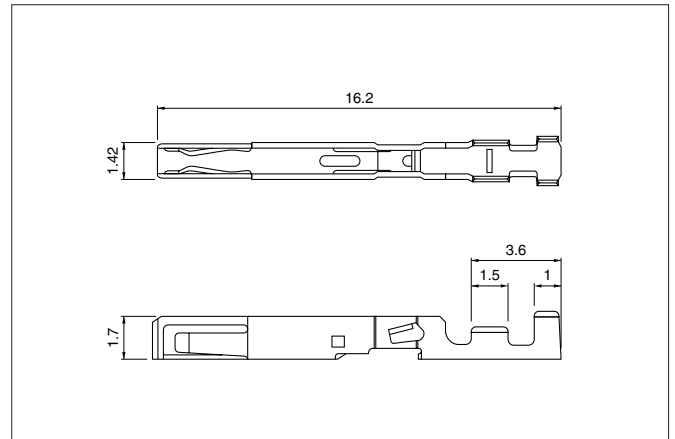
- K E C - 15 P - 3**
- Series name
 - Shell size: E
 - Wire connection style: C ... Crimp style
 - Number of circuits: 15
 - Connector type: P ... Plug, S ... Socket
 - Plating specification of shell: 3 ... Copper-undercoated, nickel-plated

D SUBMINIATURE CONNECTOR JK SERIES

Pin contact (for plug housing)



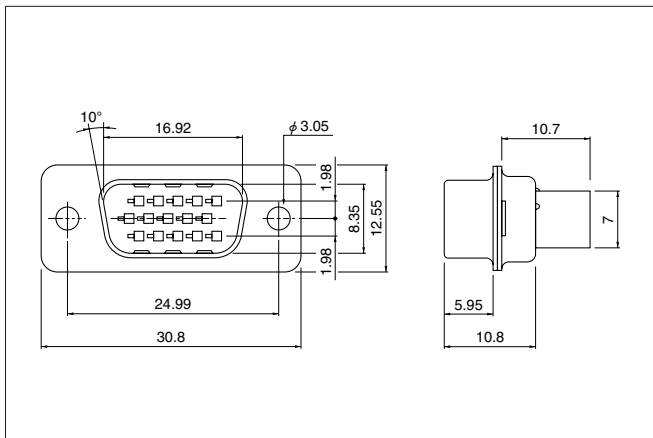
Socket contact (for socket housing)



Model No.		Finish at mating part	Applicable wire		Q'ty / box
Pin contact	Socket contact		AWG #	Insulation O.D. (mm)	
JK-SP2140	JK-SS2340	Gold-plated (flash)	28~24	0.9~1.4	10,000
JK-SP2144	JK-SS2344	Gold-plated (0.76micron)			

RoHS compliance This product displays (LF)(SN) on a label.

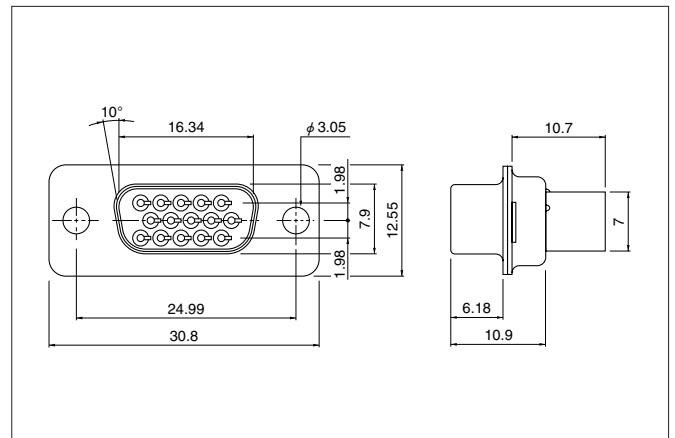
Plug housing



Circuits	Model No.	Q'ty / box
15	KEC-15P-3	100

RoHS compliance

Receptacle housing



Circuits	Model No.	Q'ty / box
15	KEC-15S-3	100

RoHS compliance

Crimping machine, Applicator

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
J-SP2***	AP-K2N	MKS-L	MK/JK-SP/SS2	APLMK JK-SP/SS2
		*MKS-SC-JK	SC/JK-SP/SS2	APLSC JK-SP/SS2
J-SS2***		MKS-L	MK/JK-SP/SS2	APLMK JK-SP/SS2
		*MKS-SC-JK	SC/JK-SP/SS2	APLSC JK-SP/SS2

Note: *Strip-crimp applicator



D SUBMINIATURE JK SERIES

Right angle through-hole plug and socket

RIGHT ANGLE THROUGH-HOLE SOCKET



(with hexagonal lock screw blocks)



(with rectangular lock screw blocks)

Features

- The mating section of the contact has a twin-contact style construction with uniform elasticity to ensure a reliable contact even when repeatedly mated and unmated.

- A wide variety of grounding adapters are available so that the receptacle can be grounded to the circuitry of a printed circuit board to prevent electromagnetic interference.

Standards

Recognized E60389 Certified LR20812

* Compliant with RoHS.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

Specifications

Materials

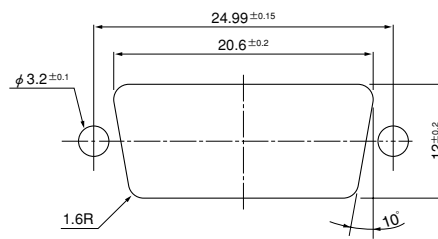
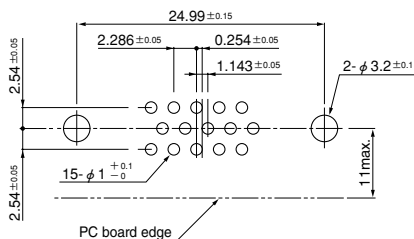
Part name	Material and Finish
Contact	Phosphor bronze, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment)
Insulator	Glass-filled PBT, UL94V-0, black
Shell	Steel, copper-undercoated, nickel-plated
Grounding adapter having a 3.2mm dia. hole	Steel, copper-undercoated, nickel-plated
Grounding adapter having an M3 tapped hole	Steel, copper-undercoated, nickel-plated
Grounding adapter having a spring lock device	Brass, nickel-undercoated, tin/copper alloy-plated

Characteristics

Current rating	1.0A, AC, DC
Voltage rating	250V AC, DC
Temperature range	-40°C to +85°C (including temperature rise in applying electrical current)
Contact resistance	Initial value/15mΩ max. After environmental testing/30mΩ max.
Insulation resistance	5,000MΩ min.
Withstanding voltage	1,000V AC/minute
Applicable PC board thickness	1.6mm

Note: Contact JST for details.

PC board layout (viewed from component side)



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method.
The dimensions above should serve as a guideline. Contact JST for details.

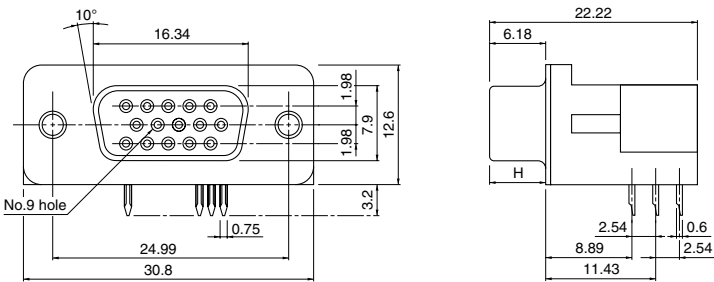


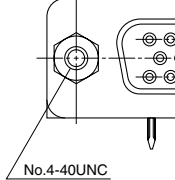
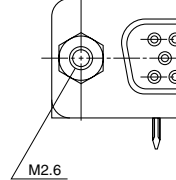
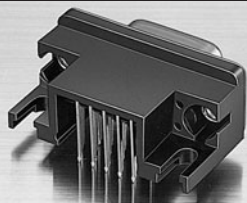
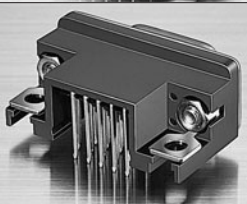

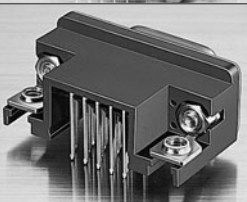

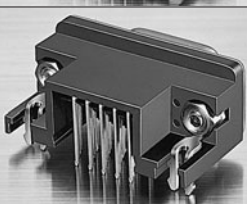



D SUBMINIATURE CONNECTOR JK SERIES

Model number identification







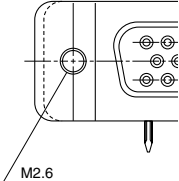
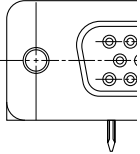
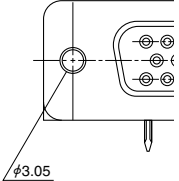
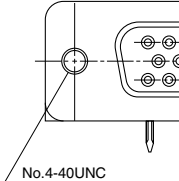
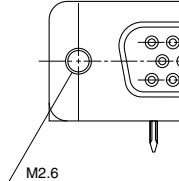
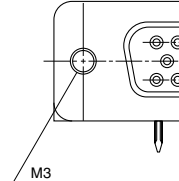
	K	E	Y	-	15	S	-	2A	3	A	14	-	23
• Series name													
• Shell size: E													
• Wire connection type: Y ... Right angle through-hole style													
• Number of circuits: 15													
• Connector type: S ... Socket													
• Connector construction/Dimensions: Standard of the series													
• Types of grounding adapters 0 ... Without grounding adapters 1 ... With grounding adapters having a 3.2mm dia. hole 2 ... With grounding adapters having an M3 thread 3 ... With grounding adapters having a spring lock device (1) 4 ... With grounding adapters having a spring lock device (2)													
• Types of lock screw blocks A ... With hexagonal lock screw blocks having a No. 4-40UNC inch thread B ... With hexagonal lock screw blocks having an M2.6 thread C ... With rectangular lock screw blocks having an M2.6 thread D ... Without lock screw blocks E ... Without lock screw blocks, but with grounding adapters having a 3.05mm dia. hole F ... Without lock screw blocks, but with grounding adapters having a No. 4-40UNC inch thread G ... Without lock screw blocks, but with grounding adapters having an M2.6 thread H ... Without lock screw blocks, but with grounding adapters having an M3 thread													
• Finish of mating part Blank ... Gold-plated (flash) 12 ... 0.2micron gold-plated 13 ... 0.4micron gold-plated 14 ... 0.76micron gold-plated													
• Blocked hole for keying ... Blank: all holes open, 23: #9 hole blocked													

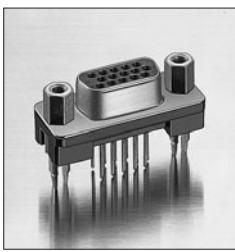
Note: Contact JST for special plating requirements.

D SUBMINIATURE CONNECTOR JK SERIES

Right angle through-hole socket		Type A	Type B
<div></div>		<div></div> <div>With hexagonal lock screw blocks(H: 6.3mm) having a No.4-40UNC inch thread</div>	<div></div> <div>With hexagonal lock screw blocks(H: 6.3mm) having an M2.6 thread</div>
H: Height of the lock screw block (for Types A, B & C)		<div></div> <div>No.4-40UNC</div>	<div></div> <div>M2.6</div>
Circuits	Model No.		
15	KEY-15S-2A**	KEY-15S-2A**14-23	Q'ty / box
RoHS compliance This product displays (LF)(SN) on a label.			
Note: ** shows the location where a two-digit code (see the table below for codes) should be entered.			
For example, if a 15-circuit gold-plated (flash) socket with hexagonal lock screw blocks having a No. 4-40UNC inch thread and without grounding adapters is required, specify the model number as KEY-15S-2A0A. (☆) Type C...60			
Without grounding adapters		0A	0B
With grounding adapters with a 3.2mm dia. hole	<div></div>	1A	1B
With grounding adapters with an M3 thread	<div></div>	2A	2B
With grounding adapters with a spring lock lever (1)	<div></div>	3A	3B
With grounding adapters with a spring lock device (2)	<div></div>	—	—

D SUBMINIATURE CONNECTOR JK SERIES

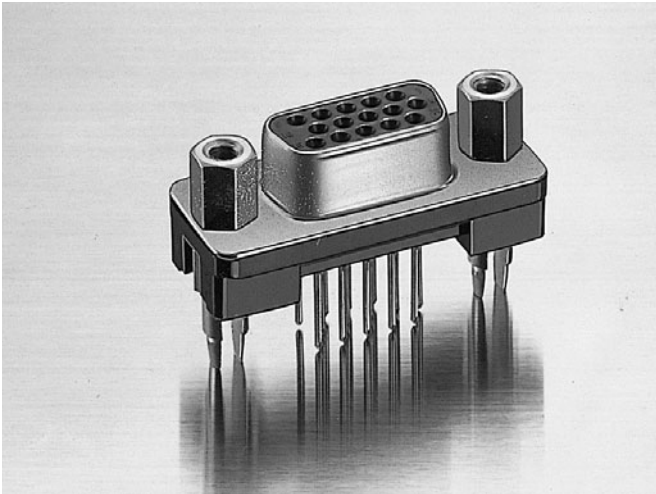
Type C	Type D	Type E	Type F	Type G	Type H
					
With rectangular lock screw blocks (H: 6.2mm) having an M2.6 thread	Without lock screw blocks	Without lock screw blocks E: Grounding adapter has no thread. F, G, H: Grounding adapters have a thread (*1) for securing separately-purchased lock screw blocks (*2)			
		Used a lock screw block [model number KFS-()S-C1N]	*1: No.4-40UNC inch thread *2: Model number KFS-4S-()1W(M)	*1: M2.6 thread *2: Model number KFS-2.6S-()1W(M)	*1: M3 thread *2: Model number KFS-3S-()1W(M)
					
0C	0D	—	—	—	—
1C	1D	1E	1F	1G	—
2C	2D	2E	2F	2G	—
3C	3D	3E	3F	3G	—
—	—	—	—	—	4H



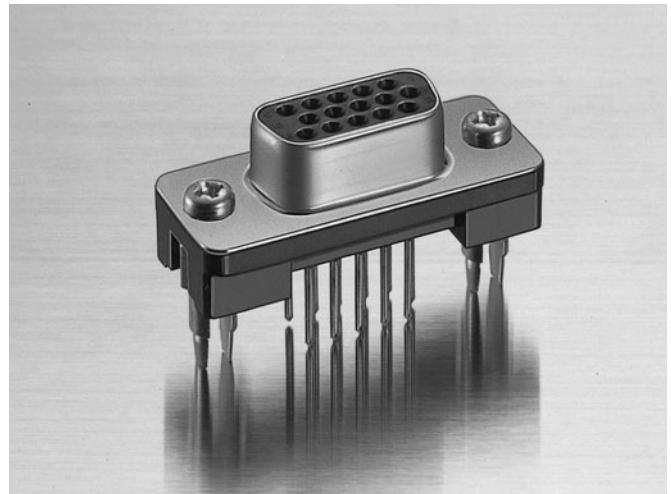
D SUBMINIATURE CONNECTOR JK SERIES

Straight through-hole socket

STRAIGHT THROUGH-HOLE SOCKET



(with hexagonal lock screw blocks)



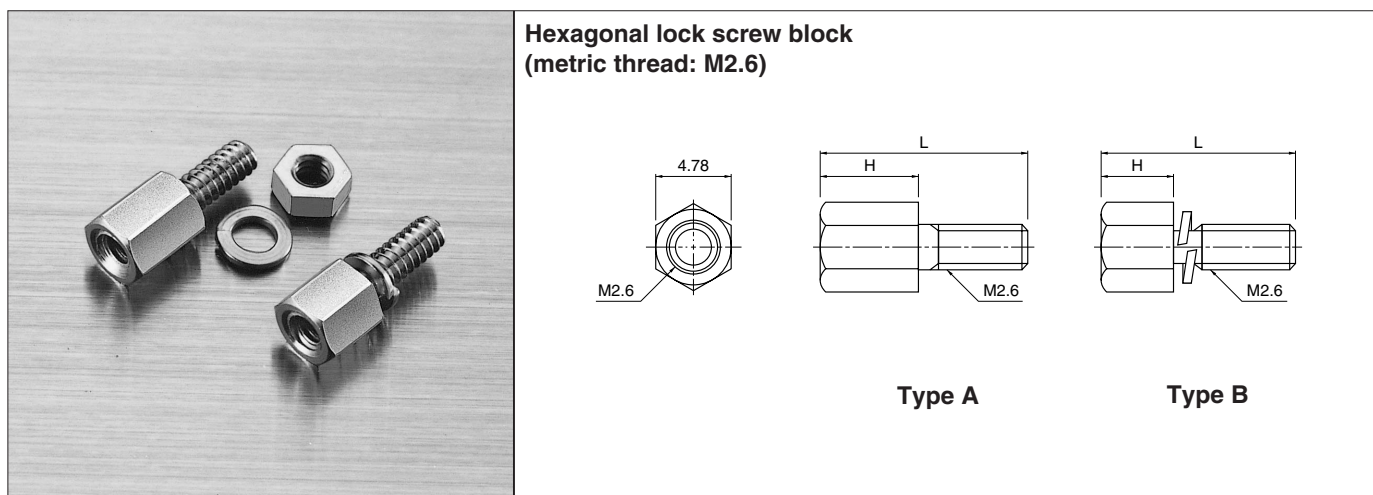
(without lock screw blocks)

Features

- The mating section of the contact has a twin-contact style construction with uniform elasticity to ensure a reliable contact even when repeatedly mated and unmated.
- A grounding adapter with a spring lock device allows the connector to be temporarily secured on the printed circuit board so that the connector can be soldered easily.

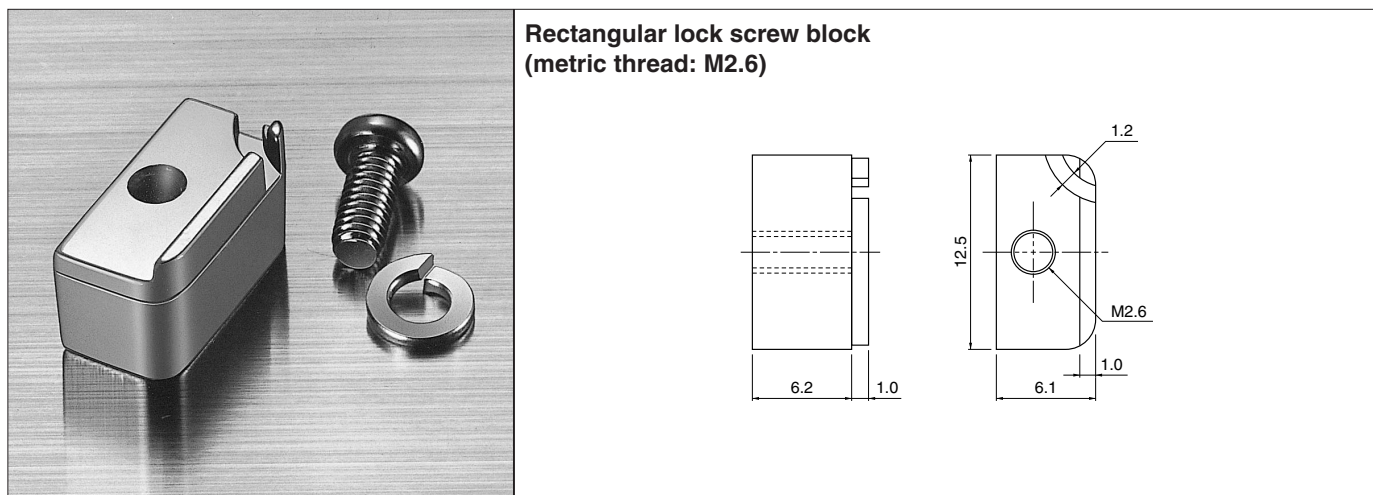
Straight through-hole socket			Type A
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D SUBMINIATURE CONNECTOR J·JH·JK&KH SERIES



<div>Applicable series</div> <div>Dimension / Model No.</div>	J series right angle through-hole type JK series straight through-hole type	JK series right angle through-hole type	J series straight through-hole type	JH series right angle through-hole type KH series right angle through-hole type	Dimension H (mm)	Type	Attachment	Q'ty / box
Dimension L (mm)	13.1	15.0	10.0	11.8				
Model No.	JFS-2.6S-C1N	KFS-2.6S-C1N	—	—	5.5	A	Spring washer .. 1 pc. Nut 1 pc.	2,000
	JFS-2.6S-B1W	KFS-2.6S-B1W	SFS-2.6S-B1W	HFS-2.6S-B1W	4.8		Spring washer .. 1 pc.	
	JFS-2.6S-C1W	KFS-2.6S-C1W	SFS-2.6S-C1W	HFS-2.6S-C1W	5.5			
	JFS-2.6S-B1WM	KFS-2.6S-B1WM	SFS-2.6S-B1WM	HFS-2.6S-B1WM	4.8	B	Hexagonal lock screw & spring washer are integrated	
	JFS-2.6S-C1WM	KFS-2.6S-C1WM	SFS-2.6S-C1WM	HFS-2.6S-C1WM	5.5			

RoHS compliance



Model No.	Attachment	Q'ty / box
JFS-2.6R-N	Spring washer – 1 pc. Set screw – 1 pc.	1,000

RoHS compliance



D SUBMINIATURE CONNECTOR J&JK SERIES

Accessories/EMI prevention shielding cover (J cover)

J COVER



J cover



Features

- This shielding cover is made of steel, formed by our advanced stamping technology, and nickel-plated.
 - The box-shaped cover completely encloses such EMI radiating areas as the connections between the connector and wires. The result is a superior shielding effect.
 - To install the shielding cover, simply align and press the upper and lower cover elements, then tighten the nuts. It then securely grips the round cables.
 - This cover is so compact, light and sturdy, that it can be used to cover the connectors of any input/output cable. Moreover, it is attractive in appearance.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
 * Contact JST for details.
 * Compliant with RoHS.

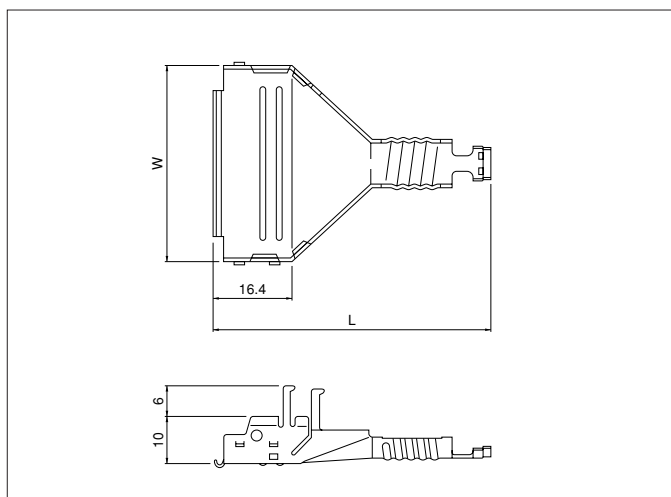
Standards

Recognized E60389

Applicable cable dimensions

Circuits	J series	9	15	25	37
	JK series	15	—	—	—
Cable outer diameter (mm)		7.0 ± 0.2		8.0 ± 0.2	10.0 ± 0.2

Shielding cover A



J series		JK series		Dimensions (mm)		Q'ty / box
Cir- cuits	Model No.	Cir- cuits	Model No.	W	L	
9	J-SC9A	15	JK-SC15A	19.4	42.0	200
15	J-SC15A	—	—	27.6	46.9	150
25	J-SC25A	—	—	41.4	57.0	100
37	J-SC37A	—	—	57.8	70.6	125

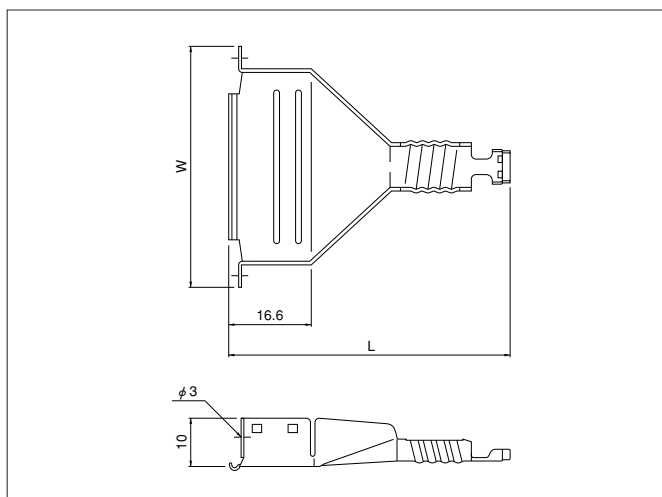
Material and Finish

Steel, copper- undercoated, nickel-plated

RoHS compliance

Note: The cover of the JK series 15-circuit connector is the same as that of the J series 9-circuit connector, except for the number of circuits indicated.

Shielding cover B



Circuits		Model No.	Dimensions (mm)		Q'ty / box
J series	JK series		W	L	
9	15	J-SC9B	30.0	(42.0)	200
15	—	J-SC15B	38.0	(46.9)	150
25	—	J-SC25B	52.0	(57.0)	150
37	—	J-SC37B	68.0	(70.6)	100

Material and Finish

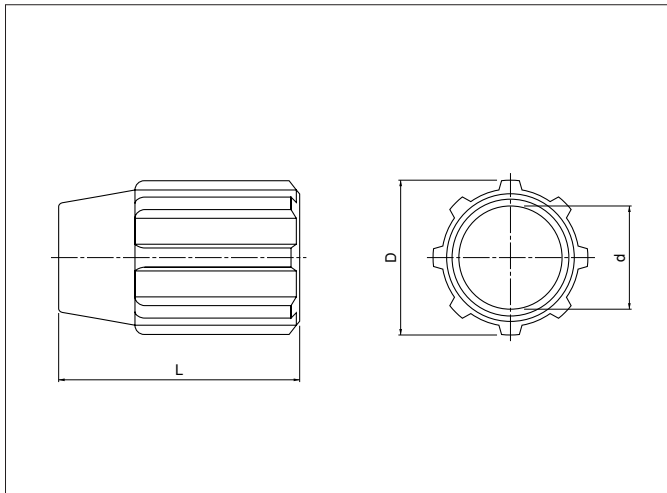
Steel, copper-undercoated, nickel-plated

RoHS compliance

Note: The cover of the JK series 15-circuit connector is the same as that of the J series 9-circuit connector.

D SUBMINIATURE CONNECTOR J&JK SERIES

Cover nut



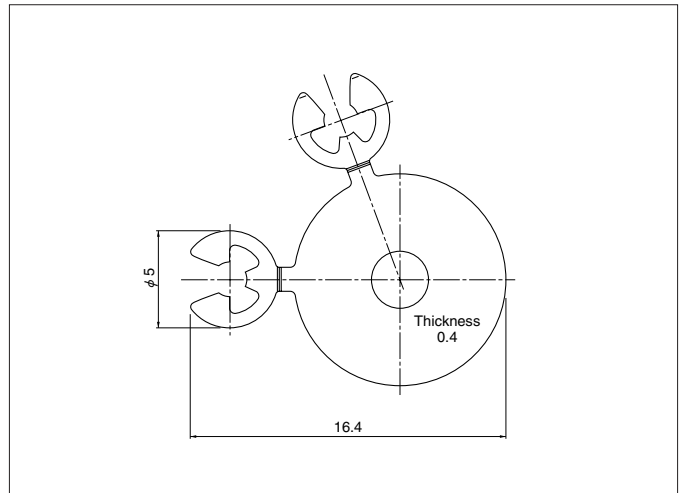
Circuits	Model No.	D	d	L	Q'ty / box
9	J-CN9 · 15	13.6	7.2	19.0	1,000
15					
25	J-CN25	16.4	8.4	25.0	1,000
37	J-CN37	18.8	10.4	28.0	1,500

Material

Glass-filled, PBT, UL94V-0, black

RoHS compliance

E-ring



Model No.	Q'ty / box
J-ER	5,000
Material	
Stainless steel	

RoHS compliance

Note: The cover nuts, lock screws and E-rings are used with both the J and JK series connectors.

Lock screw

No.4-40UNC (Inch thread)	M2.6 (Metric thread)	M3 (Metric thread)

Type of screw	Model No.	Q'ty / box
No.4-40UNC (Inch thread)	J-SL-1C	5,000
M2.6 (Metric thread)	J-SL-2C	5,000
M3 (Metric thread)	J-SL-3C	5,000

Material and Finish

Steel, copper-undercoated, nickel-plated

RoHS compliance

Use the following Model Nos. when ordering J-covers as a set.

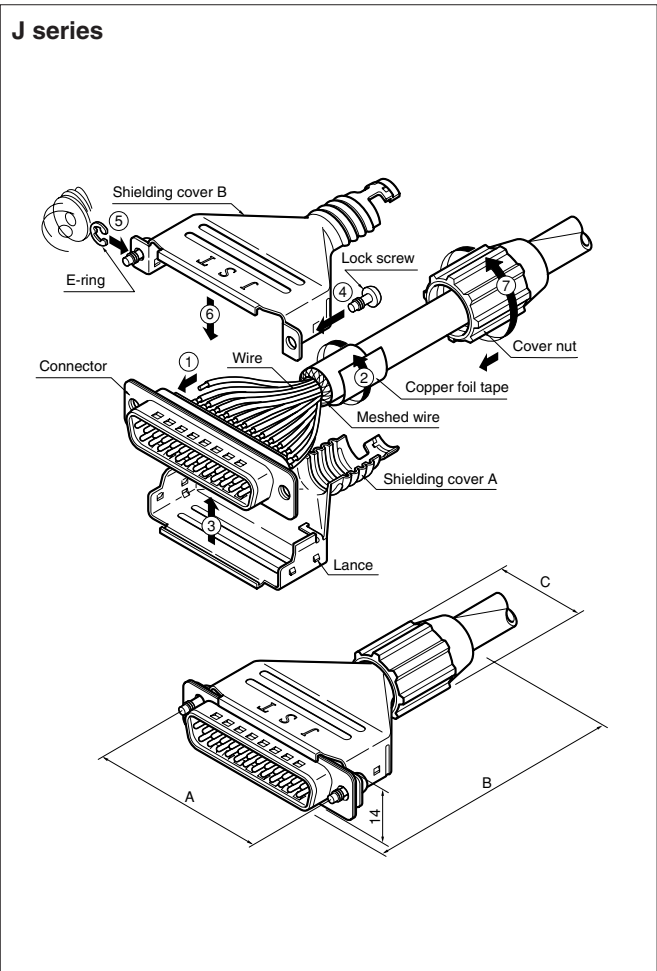
J series		JK series		Parts in one set	Q'ty / box
Circuits	Model No.	Circuits	Model No.		
9	J-C9-()C	15	JK-C15-()C	Shielding cover A 1 pc.	25
15	J-C15-()C	—	—	Shielding cover B 1 pc.	25
25	J-C25-()C	—	—	Cover nut 1 pc.	20
37	J-C37-()C	—	—	Lock screw 2 pcs.	10
				E-ring 1 set	

RoHS compliance

Note: In the above lock screw model numbers, the number in parentheses indicates the type of screw-1: Inch thread (No.4-40UNC), 2: Metric thread (M2.6), 3: Metric thread (M3).

D SUBMINIATURE CONNECTOR J&K SERIES

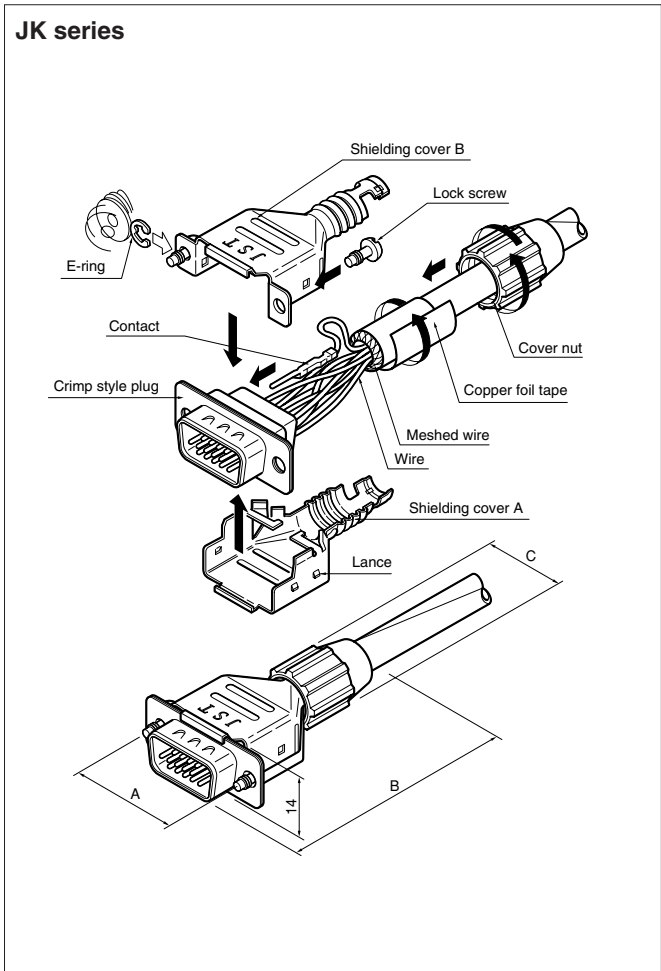
J-cover assembly procedure



Assembly procedure

1. Connect wires to the connector by soldering or crimping.
2. Fold back the braided shielding wire along the outside insulation and wind the copper foil tape around the shielding wire.
3. Install the connector into shielding cover A.
4. Screw the lock screws onto shielding cover B.
5. Install the E-rings.
6. Align shielding cover B with shielding cover A and press shielding cover B until it engages the lances of shielding cover A.
7. Tighten the cover nut until the predetermined position is reached.

Note: For details of the J-cover assembly procedure, please refer to the processing specifications separately available. The shielding effect of the J-cover is critically dependent on proper assembly.



Dimensions after assembly

Circuits		Dimensions (mm)		
J series	JK series	A	B	C
9	15	24.99	(49.0)	13.6
15	—	33.32	(53.0)	13.6
25	—	47.04	(64.5)	16.4
37	—	63.50	(78.5)	18.9



D SUBMINIATURE CONNECTOR J&K SERIES

Accessories/EMI prevention overmolding cover

MOLD COVER



Features

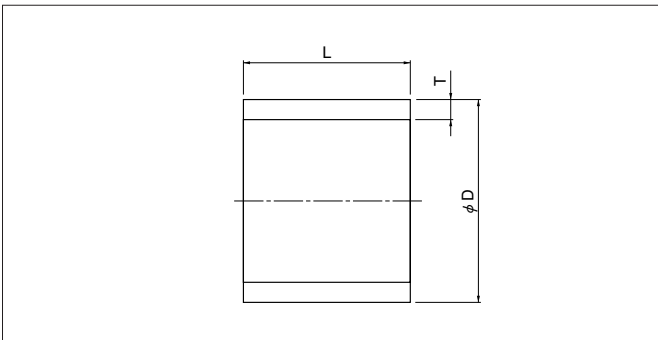
- This cover completely encloses all wire connections to the connector, and its braided wire crimp section ensures a reliable ground connection. The result is excellent shielding.
- This cover is sturdy enough to withstand the high pressure necessary during overmolding. It can thus be finish-molded directly.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Compliant with RoHS.

Applicable cable diameter

Circuits		Cable O.D.(mm)
J series	JK series	
9	15	8.6 \pm 0.2
15	—	7.6 \pm 0.2
25	—	8.6 \pm 0.2

Note: Contact JST for cables other than those listed above.

Ferrule



Circuits		Ferrule	Dimensions (mm)		
J series	JK series		φ D	T	L
9 • 25	15	A	8.0	0.5	4.0
		B	11.3	0.6	8.0
15	—	A	7.0	0.5	4.0
		B	10.5	0.6	8.0

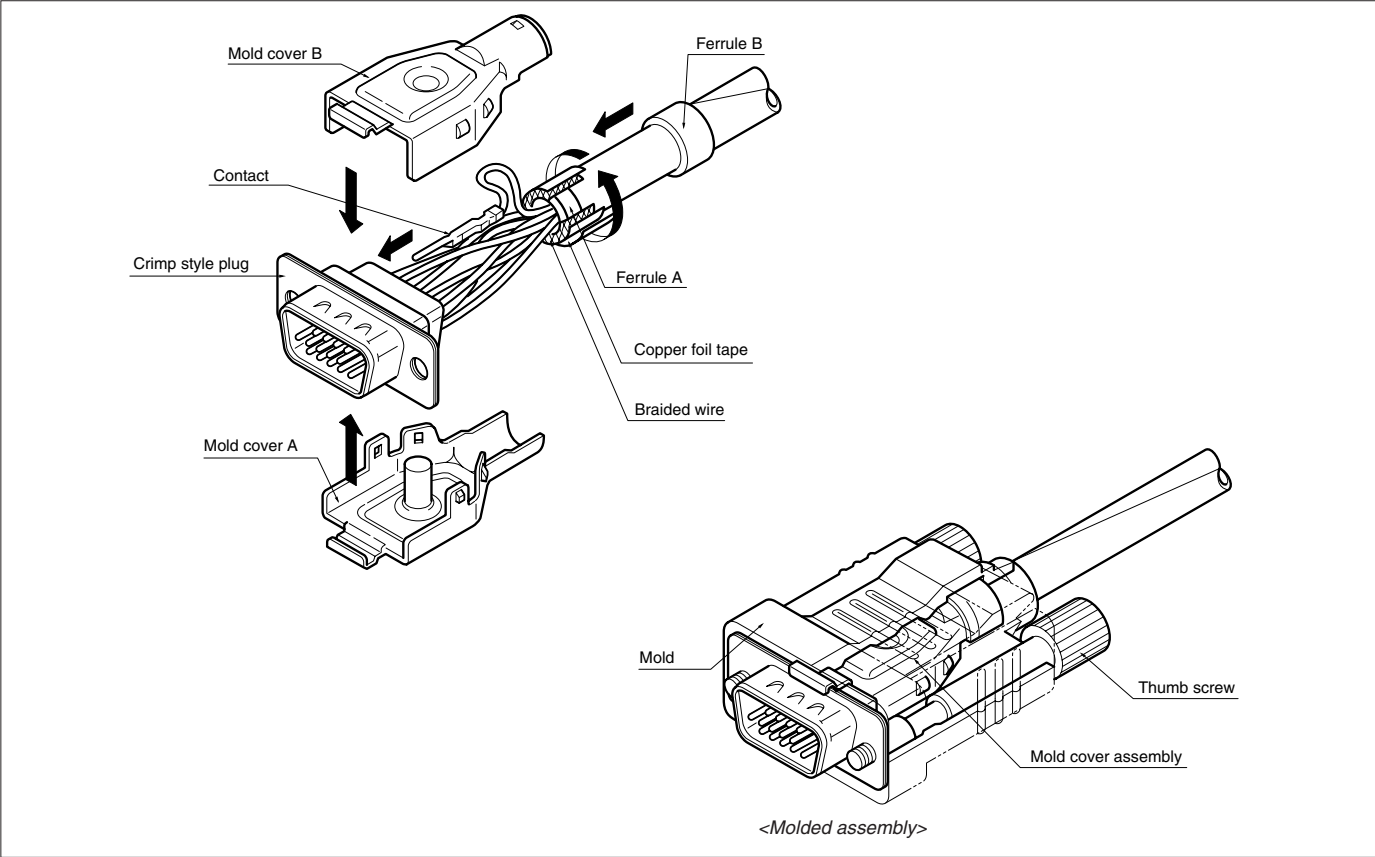
RoHS compliance

Mold cover A		Mold cover B	
JK-MC15A-3 J-MC15A	J-MC25A-4	JK-MC15B-3 J-MC15B	J-MC25B-4
<p>*Dimensions in () are those for the J-MC15A.</p>		<p>*Dimensions in () are those for the J-MC15B.</p>	

RoHS compliance

D SUBMINIATURE CONNECTOR J&K SERIES

Mold cover assembly procedure



Note: Contact JST for thumb screws.

Assembly procedure

1. Processing braided shielding wire

Pass the cable through ferrule B and remove the insulation at the end of the cable. Install ferrule A and fold back the braided shielding wire along the outside insulation. Then wind the copper foil tape around the shielding wire.

2. Connecting the wires to the contacts

Connect the wires to the contacts by crimping and insert the contacts into the housing.

3. Assembling the mold covers

Align mold cover B with mold cover A and press mold cover B until it engages the lances of mold cover A. Install ferrule B over the cable holding section of the cover assembly and crimp ferrule B. This completes the assembly.

Circuits		Parts name	Model No.	Material and Finish	Q'ty / box or bag
J series	JK series				
9	15	Mold cover A	JK-MC15A-3	Steel, copper-undercoated, nickel-plated	500
		Mold cover B	JK-MC15B-3		
		Ferrule A	JK-FL15A-8.0C	Copper, tin-plated	1,000
		Ferrule B	JK-FL15B-11.3		500
15	—	Mold cover A	J-MC15A	Steel, copper-undercoated, nickel-plated	200
		Mold cover B	J-MC15B		
		Ferrule A	J-FL15A-7.0C	Copper, tin-plated	1,000
		Ferrule B	J-FL15B-10.5		500
25	—	Mold cover A	J-MC25A-4	Steel, copper-undercoated, nickel-plated	250
		Mold cover B	J-MC25B-4		
		Ferrule A	JK-FL15A-8.0C	Copper, tin-plated	1,000
		Ferrule B	JK-FL15B-11.3		500

RoHS compliance

Crimping machine, Applicator

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
JK-FL15B-11.3	AP-K2N	MKS-L-RG	MK/JK-MC15	APLMK JK-MC15
J-FL15B-10.5			MK/J-MC15	APLSC JK-MC15




D SUBMINIATURE CONNECTOR J·JH·JK & KH SERIES

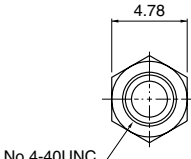
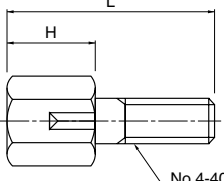
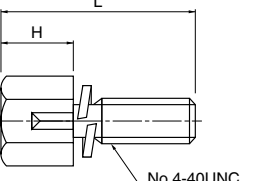
Accessories/Lock screw block

A variety of accessories are available for the D subminiature connectors.

LOCK SCREW BLOCK



**Hexagonal lock screw block
(inch thread: No.4-40UNC)**






Type A

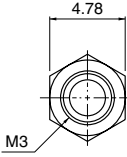
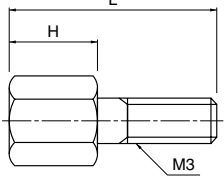
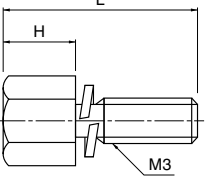
Type B

Applicable series	J series right angle through-hole type JK series straight through-hole type	JK series right angle through-hole type	J series straight through-hole type	JH series right angle through-hole type KH series right angle through-hole type	Dimension H (mm)	Type	Attachment	Q'ty / box
Dimension / Model No.	13.1	15.0	10.0	11.8				
Model No.	JFS-4S-C1N	KFS-4S-C1N	—	—	5.5	A	Spring washer .. 1 pc. Nut 1 pc.	2,000
	JFS-4S-B1W	KFS-4S-B1W	SFS-4S-B1W	HFS-4S-B1W	4.8		Spring washer .. 1 pc.	
	JFS-4S-C1W	KFS-4S-C1W	SFS-4S-C1W	—	5.5	B	Hexagonal lock screw & spring washer are integrated	
	JFS-4S-B1WM	KFS-4S-B1WM	SFS-4S-B1WM	HFS-4S-B1WM	4.8			
	JFS-4S-C1WM	KFS-4S-C1WM	SFS-4S-C1WM	HFS-4S-C1WM	5.5			

RoHS compliance



**Hexagonal lock screw block
(metric thread: M3)**

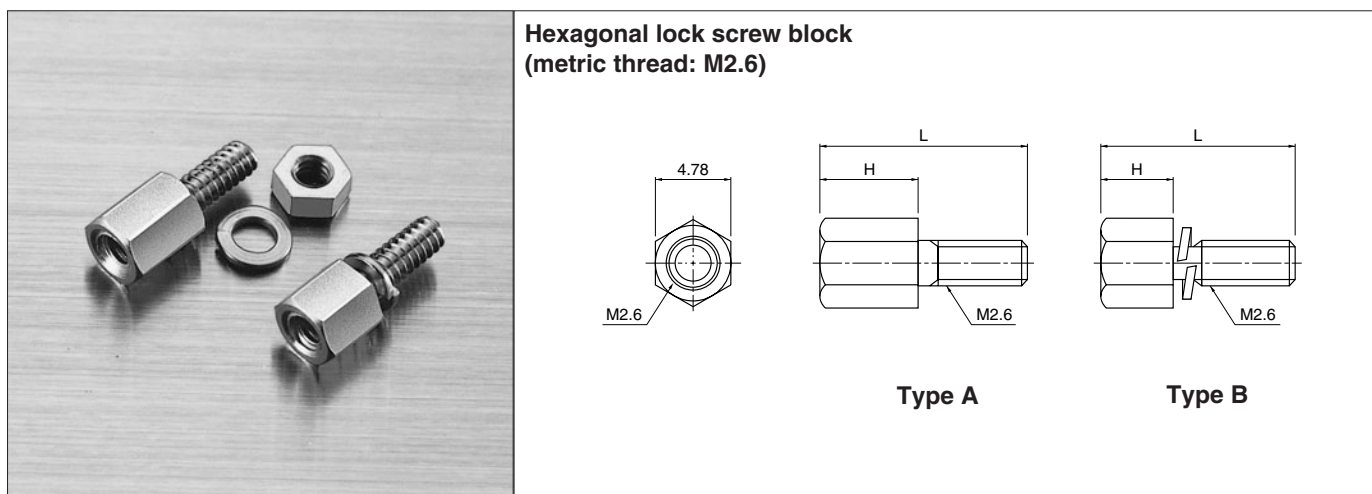
Type A

Type B

Applicable series	J series right angle through-hole type JK series straight through-hole type	JK series right angle through-hole type	J series straight through-hole type	JH series right angle through-hole type KH series right angle through-hole type	Dimension H (mm)	Type	Attachment	Q'ty / box
Dimension / Model No.	13.1	15.0	10.0	11.8				
Model No.	JFS-3S-C1N	KFS-3S-C1N	—	—	5.5	A	Spring washer .. 1 pc. Nut 1 pc.	2,000
	JFS-3S-B1W	—	SFS-3S-B1W	—	4.8		Spring washer .. 1 pc.	
	—	KFS-3S-C1W	SFS-3S-C1W	HFS-3S-C1W	5.5	B	Hexagonal lock screw & spring washer are integrated	
	—	—	SFS-3S-B1WM	HFS-3S-B1WM	4.8			
	JFS-3S-C1WM	KFS-3S-C1WM	SFS-3S-C1WM	HFS-3S-C1WM	5.5			

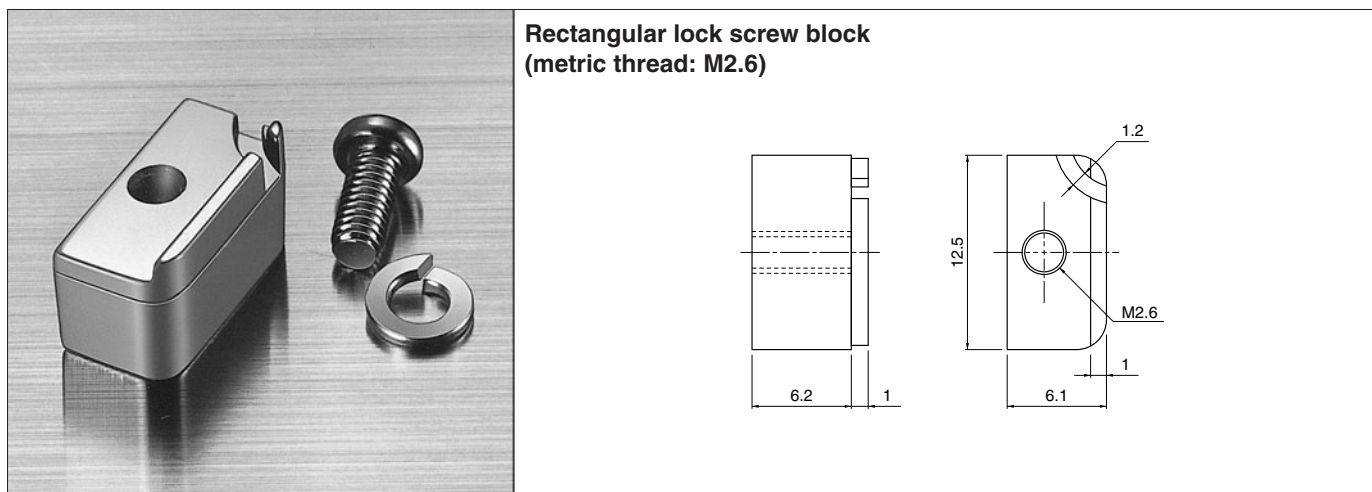
RoHS compliance

D SUBMINIATURE CONNECTOR J·JH·JK&KH SERIES



Applicable series	J series right angle through-hole type JK series straight through-hole type	JK series right angle through-hole type	J series straight through-hole type	JH series right angle through-hole type KH series right angle through-hole type	Dimension H (mm)	Type	Attachment	Q'ty / box
Dimension L (mm)	13.1	15.0	10.0	11.8				
Model No.	JFS-2.6S-C1N	KFS-2.6S-C1N	—	—	5.5	A	Spring washer ... 1 pc. Nut 1 pc.	2,000
	JFS-2.6S-B1W	KFS-2.6S-B1W	SFS-2.6S-B1W	HFS-2.6S-B1W	4.8		Spring washer ... 1 pc.	
	—	KFS-2.6S-C1W	SFS-2.6S-C1W	HFS-2.6S-C1W	5.5	B	Hexagonal lock screw & spring washer are integrated	
	JFS-2.6S-B1WM	KFS-2.6S-B1WM	SFS-2.6S-B1WM	HFS-2.6S-B1WM	4.8			
	JFS-2.6S-C1WM	KFS-2.6S-C1WM	SFS-2.6S-C1WM	HFS-2.6S-C1WM	5.5			

RoHS compliance



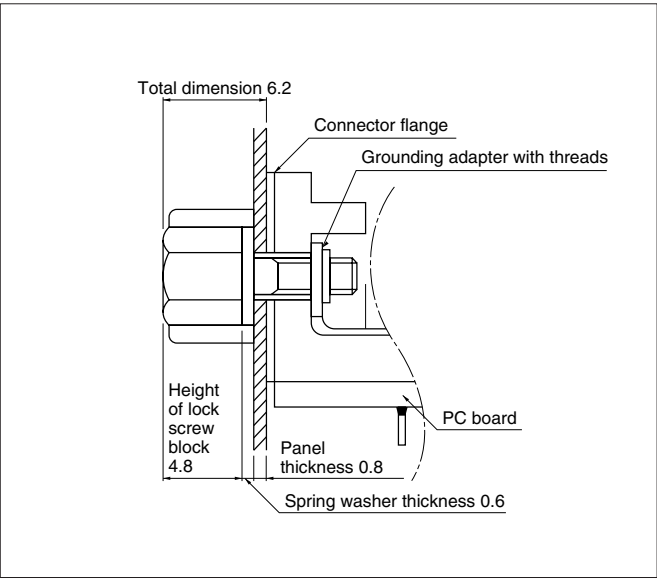
Model No.	Attachment	Q'ty / box
JFS-2.6R-N	Spring washer – 1 pc. Set screw – 1 pc.	1,000

RoHS compliance

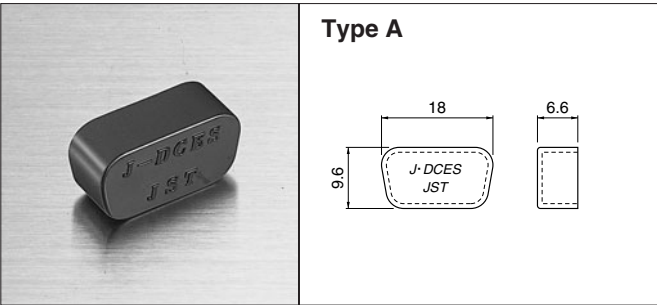
D SUBMINIATURE CONNECTOR J·JH·JK&KH SERIES

Application examples of hexagonal lock screw blocks

- The resulting total dimension from the connector flange to the top of the hexagonal lock screw block must be 6.2mm after assembly.
- The D subminiature connector can be installed on the Panel by simply tightening the hexagonal lock screw block together with grounding adapter, which has an identical thread to that of the F, G, and H types.

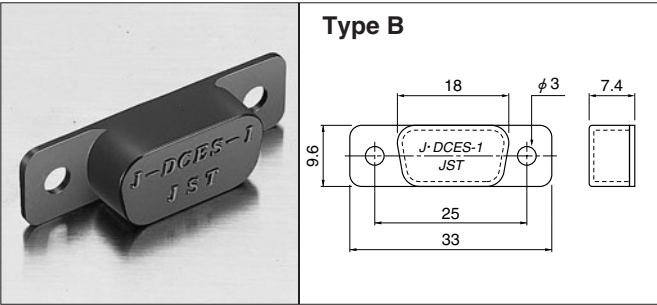


DUST COVER (for receptacles)



Type	Circuits		Model No.	Q'ty / box
	J series	JK series		
A	9	15	J-DCES	1,000
B			J-DCES-1	
Material				
PA, UL94V-0, black				

RoHS compliance

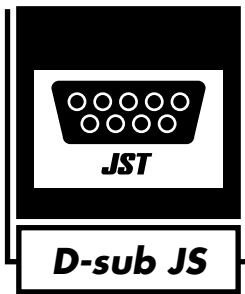


EXTRACTION TOOL



With this tool, contacts (connected to wires by crimping) can be easily removed if they are improperly inserted into plug and receptacle housings.

Applicable Connector		Model No.
J series		DEJ-0.3
JK series	Plug	KEJ-0.7
	Receptacle	KEJ-0.4



D SUBMINIATURE CONNECTOR JS SERIES

Right angle SMT configuration plug and socket

RIGHT ANGLE SMT CONFIGURATION PLUG AND SOCKET



Right angle SMT configuration plug (off-set type)



Right angle SMT configuration socket (normal type)

Features

- Mating part is designed to conform to MIL C-24308.
- Reduces the usage of PCB space thanks to thin design.
- As this is of SMT configuration, components can be mounted on the other side of the PC board.
- Positioning bosses assure secure mounting on the PC board.
- Heat resistant resin is used for the insulator, thus applicable to various reflow soldering processes.
- Ferrite mounted type is under planning.

Specifications

Materials

Part name	Material and Finish
Contact	Copper alloy, nickel-undercoated, Mating part: gold-plated Solder tail: tin-plated (reflow treatment)
Insulator	Glass-filled PPS, UL94V-0
Shell	Steel, copper-undercoated, nickel-plated
Metal fixture	Screw type: Copper alloy, copper-undercoated, nickel-plated Hook type: Copper alloy, nickel-undercoated, tin/copper alloy-plated

Characteristics

Current rating	1.0A AC, DC
Voltage rating	125V AC, DC
Temperature range	-40°C to +85°C(including temperature rise in applying electrical current)
Contact resistance	Initial value/20mΩ max. After environmental testing/30mΩ max.
Insulation resistance	500MΩ min.
Withstanding voltage	500V AC/minute
Circuits	Plug: 9 / Socket: 25

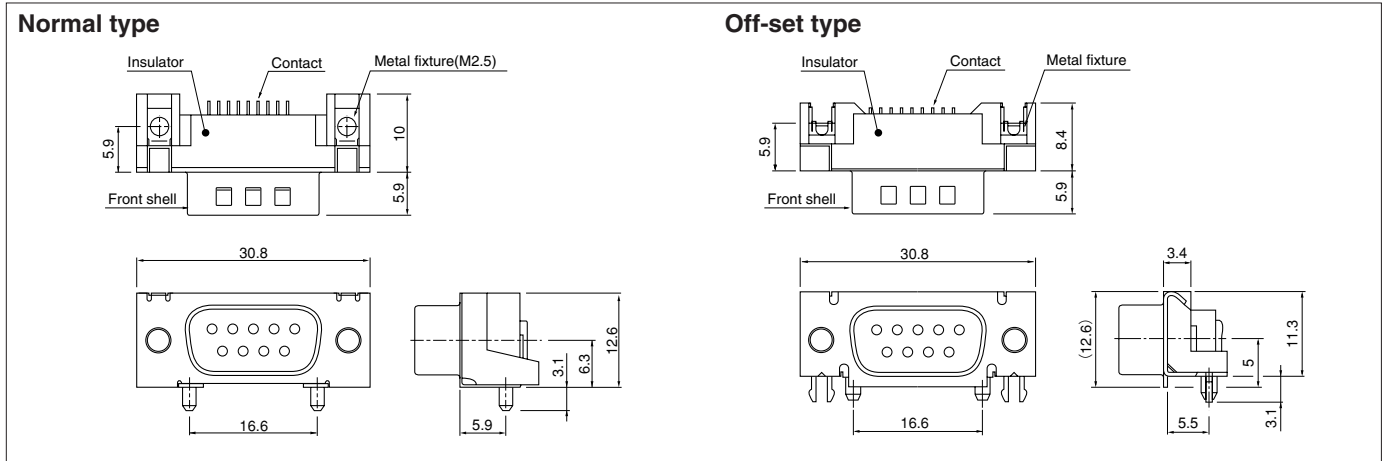
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Model number identification

	JS	B	Y	—	25	S	—	1A	3F	19	—	13
• Series name												
• Shell size: E ... 9-circuits B ... 25-circuits												
• Right angle through hole type: Y												
• No. of circuits: 9, 25												
• Connector type S: Socket P: Plug												
• Connector construction/dimensions 1A ... Standard type 3B ... Off-set type 5B ... Off-set type(with lightening part)												
• Kind of metal fixture and lock screw blocks : 3F... •With metal fixture having an M2.5 thread •Without lock screw blocks, but with a No.4-40UNC thread 6L... •With grounding adapters with a spring lock device •Without lock screw blocks, but with a No.4-40UNC thread												
• Finish of mating part 10... Gold-plated (flash) 19...0.76micron gold-plated												

D SUBMINIATURE CONNECTOR JS SERIES

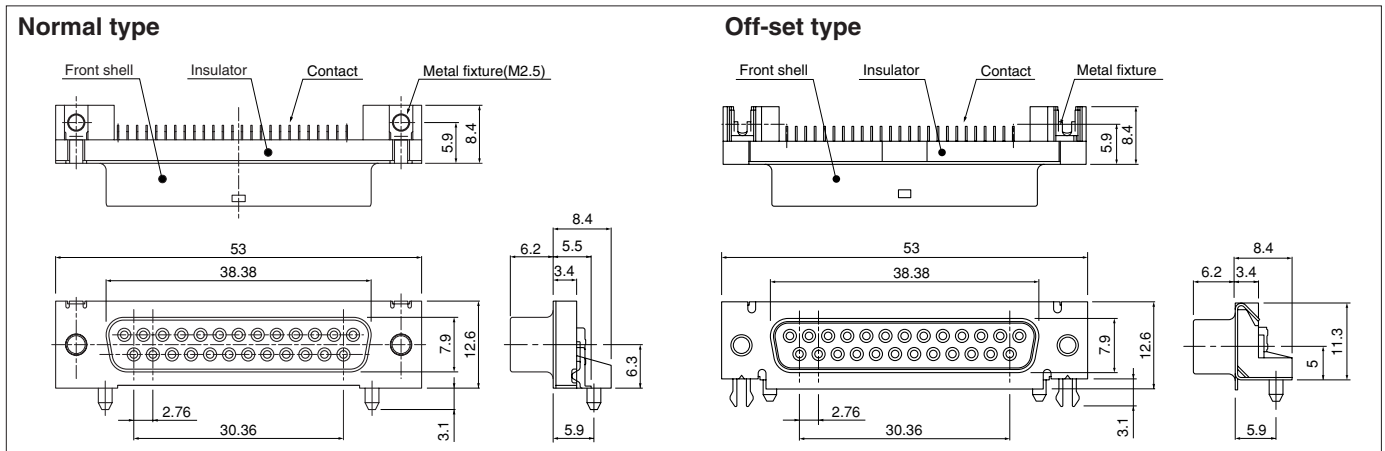
Right angle SMT configuration plug



Type	Circuits	Model No.	Q'ty / box
Normal	9	JSEY-9P-1A3F19-13	150
Off-set	9	JSEY-9P-5B6L19-13	150

RoHS compliance This product displays (LF)(SN) on a label.

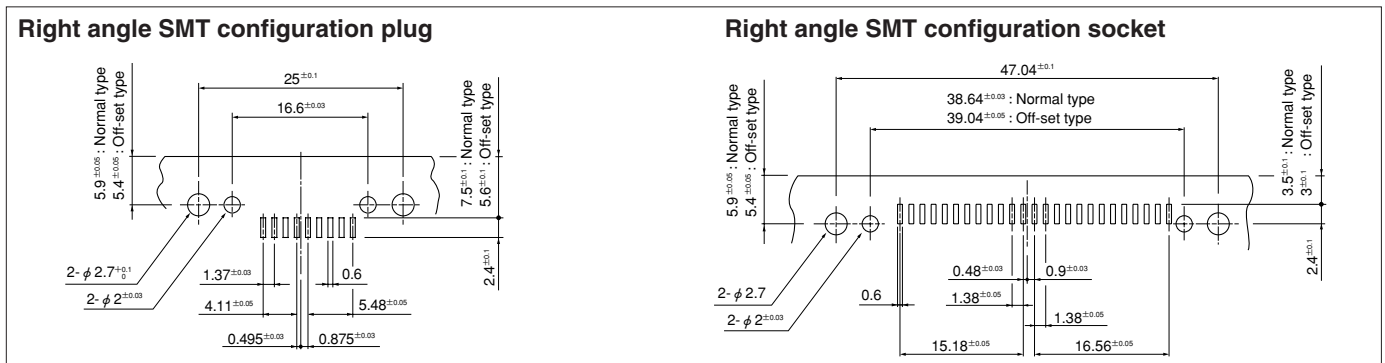
Right angle SMT configuration socket



Type	Circuits	Model No.	Q'ty / box
Normal	25	JSBY-25S-1A3F19-13	75
Off-set	25	JSBY-25S-3B6L19-13	—

RoHS compliance This product displays (LF)(SN) on a label.

PC board layout (viewed from component side)



Note: 1. Tolerances are non-cumulative: $\pm 0.03\text{mm}$ for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.



D SUBMINIATURE CONNECTOR KH SERIES

Right angle through-hole socket

RIGHT ANGLE THROUGH-HOLE SOCKET



(with hexagonal lock screw blocks)



(without lock screw blocks, but with grounding adapters having a No.4-40UNC inch thread)

Features

- The depth is trimmed to 13.0mm, reducing the surface mounting area by 20% compared with our JK series subminiature connectors.

- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

KH series	JK series

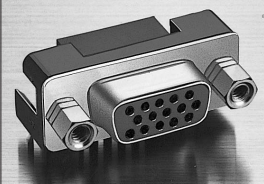
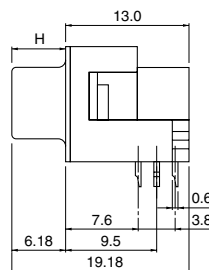
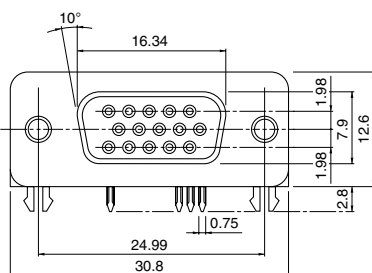
Standards

Recognized E60389

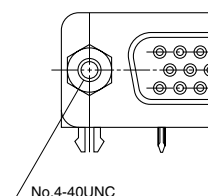
Certified LR20812

Right angle through-hole socket

Type A



With hexagonal lock screw blocks(H:6.3mm) having a No.4-40UNC inch thread



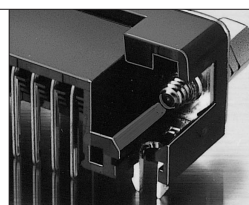
H: Height of the lock screw block (for Types A, B & J)

Circuits	Model No.		Q'ty / box
	Gold-plated (flash) receptacle	Gold-plated (0.76micron) receptacle	
15	KHEY-15S-1A**	KHEY-15S-1A**14	100

RoHS compliance This product displays (LF)(SN) A on a label.

Note: ** shows the location where a two-digit code (see the table below for codes) should be entered. For example, if a 15-circuit gold-plated (flash) socket with hexagonal lock screw blocks having a No.4-40UNC inch thread and with grounding adapters having a spring lock device is required, specify the model number as KHEY-15S-1A3A.

With grounding adapters with a spring lock device



3A

D SUBMINIATURE CONNECTOR KH SERIES

Specifications

Materials

Part name	Material and Finish
Contact	Phosphor bronze, nickel-undercoated, Mating part: gold-plated Solder tail: tin-plated (reflow treatment)
Insulator	Glass-filled PBT, UL94-0, black
Shell	Steel, copper-undercoated, nickel-plated
Grounding adapter with spring lock device	Brass, nickel-undercoated, tin/copper alloy-plated

Characteristics

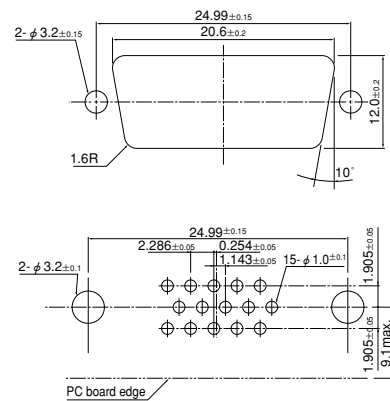
Current rating	1.0A,AC,DC
Voltage rating	250V,AC,DC
Temperature range	-40°C to +85°C(including temperature rise in applying electrical current)
Contact resistance	Initial value/15mΩ max. After environmental testing/30mΩ max.
Insulation resistance	5,000MΩ min.
Withstanding voltage	AC1,000V/minute
Applicable PC board thickness	1.6mm

*Contact JST for details.

Model number identification

KH E Y - 15 S - 1A 3 A 14	
• Series name	KH
• Shell size: E	E
• Wire connection type: Y ... Right angle through-hole type	Y
• Number of circuits: 15	15
• Connector type: S ... Socket	S
• Connector construction/dimensions: Standard KH series right angle through-hole type	
• Types of grounding adapter: 3 ... With grounding adapters having a spring lock device	3
• Type of lock screw block: A ... With hexagonal lock screw blocks having a No. 4-40UNC inch thread B ... With hexagonal lock screw blocks having an M2.6 thread F ... Without lock screw blocks, but with grounding adapters having a No. 4-40UNC inch thread G ... Without lock screw blocks, but with grounding adapters having an M2.6 thread H ... Without lock screw blocks, but with grounding adapters having an M3 thread J ... With hexagonal lock screw blocks having an M3 thread	A
• Finish of mating part Blank ... Gold-plated (flash) 12 ... 0.2micron gold-plated 13 ... 0.4micron gold-plated 14 ... 0.76micron gold-plated	14

PC board layout (viewed from component side) and Panel layout



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method.
The dimensions above should serve as a guideline. Contact JST for details.

Type B	Type D	Type F	Type G	Type H
With hexagonal lock screw blocks(H:6.3mm) having an M2.6 thread	Without lock screw blocks F, G, H: Grounding adapters have a thread (*1) for securing separately-purchased lock screw blocks (*2)			With hexagonal lock screw blocks(H:6.3mm) having an M3 thread
	*1: No.4-40UNC inch thread *2: Model number HFS-4S-()1W(M)	*1: M2.6 thread *2: Model number HFS-2.6S-()1W(M)	*1: M3 thread *2: Model number HFS-3S-()1W(M)	
3B	3F	3G	3H	3J




D SUBMINIATURE CONNECTOR J·JH·JK & KH SERIES

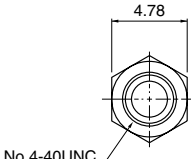
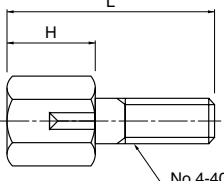
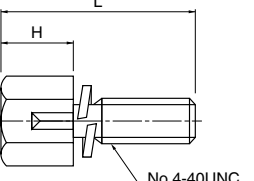
Accessories/Lock screw block

A variety of accessories are available for the D subminiature connectors.

LOCK SCREW BLOCK



**Hexagonal lock screw block
(inch thread: No.4-40UNC)**






Type A

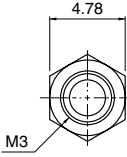
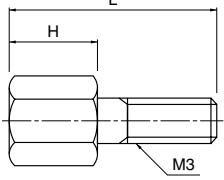
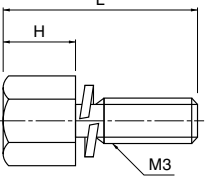
Type B

Applicable series	J series right angle through-hole type JK series straight through-hole type	JK series right angle through-hole type	J series straight through-hole type	JH series right angle through-hole type KH series right angle through-hole type	Dimension H (mm)	Type	Attachment	Q'ty / box
Dimension / Model No.	13.1	15.0	10.0	11.8				
Model No.	JFS-4S-C1N	KFS-4S-C1N	—	—	5.5	A	Spring washer .. 1 pc. Nut 1 pc.	2,000
	JFS-4S-B1W	KFS-4S-B1W	SFS-4S-B1W	HFS-4S-B1W	4.8		Spring washer .. 1 pc.	
	JFS-4S-C1W	KFS-4S-C1W	SFS-4S-C1W	—	5.5	B	Hexagonal lock screw & spring washer are integrated	
	JFS-4S-B1WM	KFS-4S-B1WM	SFS-4S-B1WM	HFS-4S-B1WM	4.8			
	JFS-4S-C1WM	KFS-4S-C1WM	SFS-4S-C1WM	HFS-4S-C1WM	5.5			

RoHS compliance



**Hexagonal lock screw block
(metric thread: M3)**

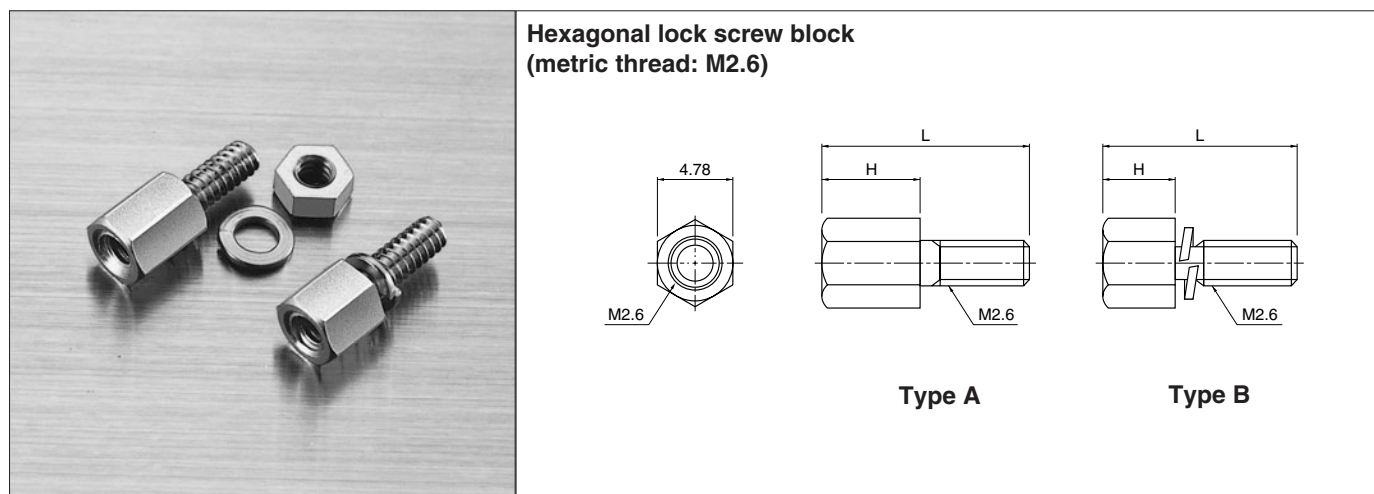
Type A

Type B

Applicable series	J series right angle through-hole type JK series straight through-hole type	JK series right angle through-hole type	J series straight through-hole type	JH series right angle through-hole type KH series right angle through-hole type	Dimension H (mm)	Type	Attachment	Q'ty / box
Dimension / Model No.	13.1	15.0	10.0	11.8				
Model No.	JFS-3S-C1N	KFS-3S-C1N	—	—	5.5	A	Spring washer .. 1 pc. Nut 1 pc.	2,000
	JFS-3S-B1W	—	SFS-3S-B1W	—	4.8		Spring washer .. 1 pc.	
	—	KFS-3S-C1W	SFS-3S-C1W	HFS-3S-C1W	5.5	B	Hexagonal lock screw & spring washer are integrated	
	—	—	SFS-3S-B1WM	HFS-3S-B1WM	4.8			
	JFS-3S-C1WM	KFS-3S-C1WM	SFS-3S-C1WM	HFS-3S-C1WM	5.5			

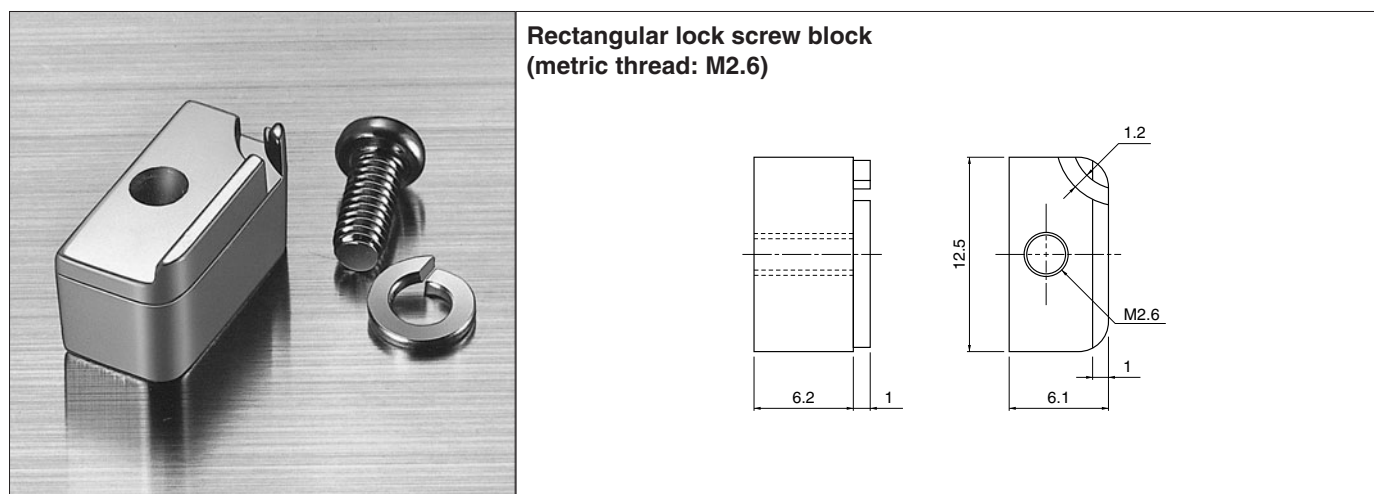
RoHS compliance

D SUBMINIATURE CONNECTOR J·JH·JK&KH SERIES



Applicable series	J series right angle through-hole type	JK series right angle through-hole type	J series straight through-hole type	JH series right angle through-hole type KH series right angle through-hole type	Dimension H (mm)	Type	Attachment	Q'ty / box
Dimension / Model No.	Dimension L (mm)	13.1	15.0	10.0	11.8			
Model No.	JFS-2.6S-C1N	KFS-2.6S-C1N	—	—	5.5	A	Spring washer ... 1 pc. Nut 1 pc.	2,000
	JFS-2.6S-B1W	KFS-2.6S-B1W	SFS-2.6S-B1W	HFS-2.6S-B1W	4.8		Spring washer ... 1 pc.	
	—	KFS-2.6S-C1W	SFS-2.6S-C1W	HFS-2.6S-C1W	5.5	B	Hexagonal lock screw & spring washer are integrated	
	JFS-2.6S-B1WM	KFS-2.6S-B1WM	SFS-2.6S-B1WM	HFS-2.6S-B1WM	4.8			
	JFS-2.6S-C1WM	KFS-2.6S-C1WM	SFS-2.6S-C1WM	HFS-2.6S-C1WM	5.5			

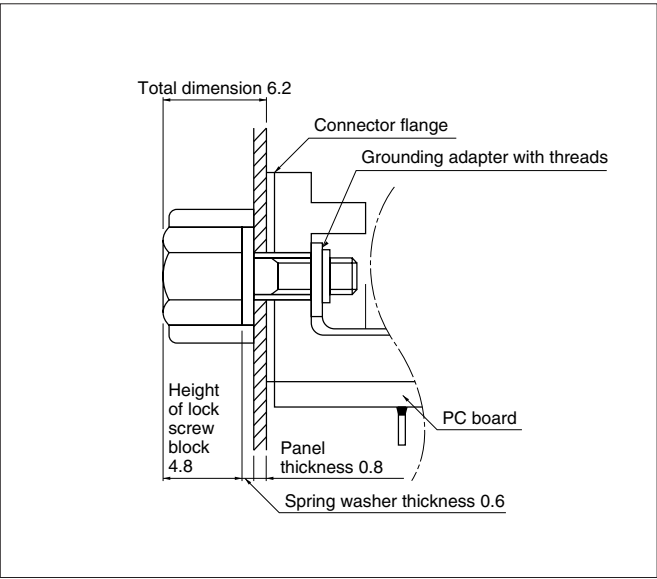
RoHS compliance



Model No.	Attachment	Q'ty / box
JFS-2.6R-N	Spring washer – 1 pc. Set screw – 1 pc.	1,000

RoHS compliance

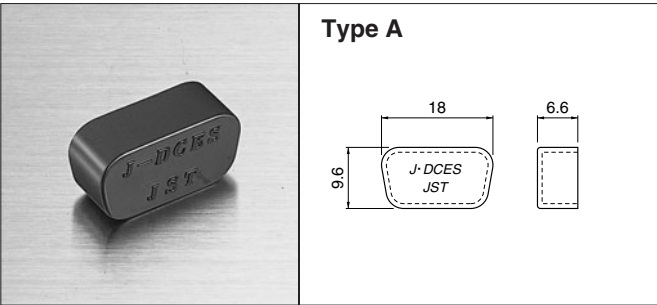
D SUBMINIATURE CONNECTOR J·JH·JK&KH SERIES



Application examples of hexagonal lock screw blocks

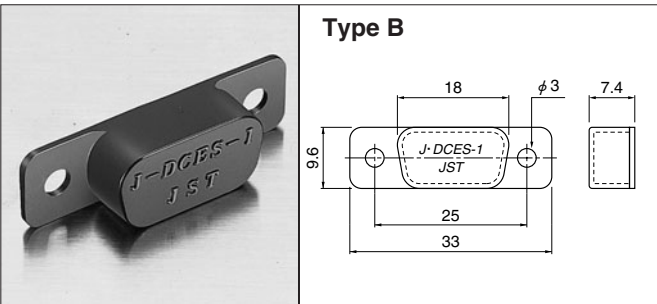
- The resulting total dimension from the connector flange to the top of the hexagonal lock screw block must be 6.2mm after assembly.
- The D subminiature connector can be installed on the Panel by simply tightening the hexagonal lock screw block together with grounding adapter, which has an identical thread to that of the F, G, and H types.

DUST COVER (for receptacles)



Type	Circuits		Model No.	Q'ty / box
	J series	JK series		
A	9	15	J-DCES	1,000
B			J-DCES-1	
Material				
PA, UL94V-0, black				

RoHS compliance

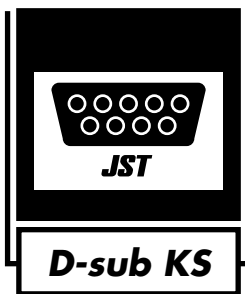


EXTRACTION TOOL



With this tool, contacts (connected to wires by crimping) can be easily removed if they are improperly inserted into plug and receptacle housings.

Applicable Connector		Model No.
J series		DEJ-0.3
JK series	Plug	KEJ-0.7
	Receptacle	KEJ-0.4



D SUBMINIATURE CONNECTOR KS SERIES

Right angle SMT configuration socket

RIGHT ANGLE SMT CONFIGURATION SOCKET



(off-set type)



(normal type)

Features

- Reduces the usage of PCB space thanks to thin design.
- As this is of SMT configuration, components can be mounted on the other side of the PC board.
- Positioning bosses assure secure mounting on the PC board.
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- Heat resistant resin is used for the insulator, thus applicable to various reflow soldering processes.
- Single-row solder tails.
- Ferrite mounted type is under planning.

Specifications

Materials

Part name	Material and Finish
Contact	Phosphor bronze, nickel-undercoated, Mating part: gold-plated Solder tail: tin-plated (reflow treatment)
Insulator	Glass-filled PPS, UL94V-0, black
Shell	Steel, copper-undercoated, nickel-plated
Metal fixture	Copper alloy, 1A3F: copper-undercoated, nickel-plated Copper alloy, 3B6L: copper-undercoated, tin/copper alloy-plated

Characteristics

Current rating	1.0A, AC, DC
Voltage rating	125V AC, DC
Temperature range	-40°C to +85°C (including temperature rise in applying electrical current)
Contact resistance	Initial value/20mΩ max. After environmental testing/30mΩ max.
Insulation resistance	500MΩ min.
Withstanding voltage	500V AC/minute

Note: Contact JST for details

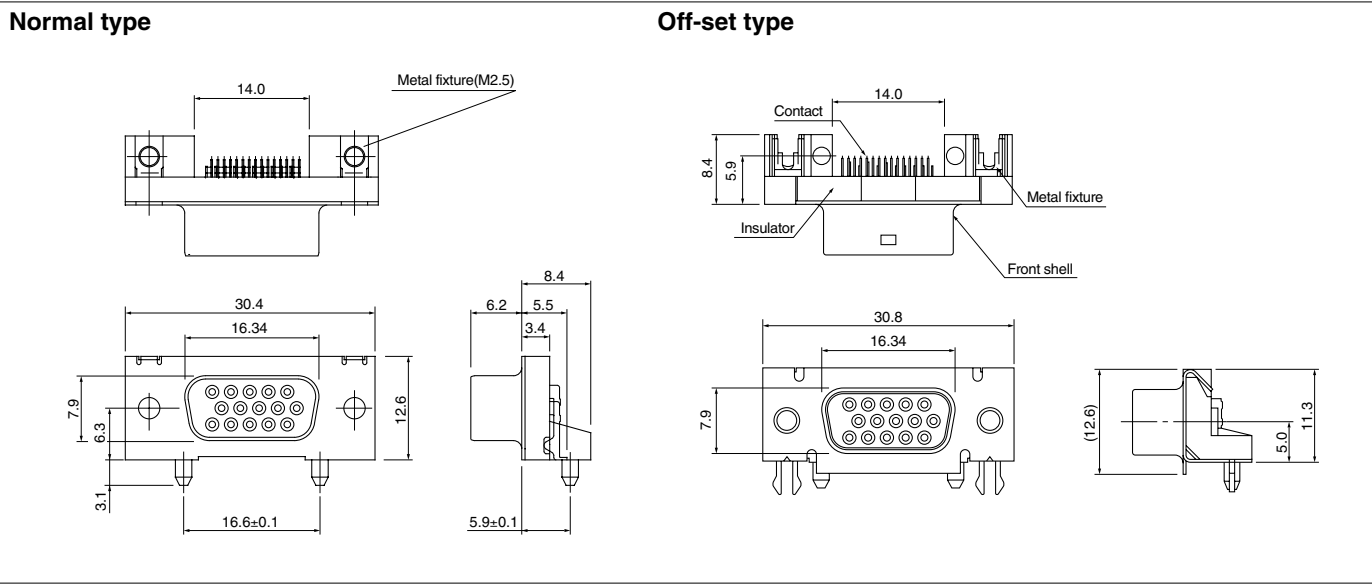
Model number identification

Contact

- Series name
- Shell size: E
- Right angle through hole type: Y
- No. of circuits: 15
- Connector type S: Socket
- Connector construction/dimensions
 - 1A ... Integrated L-shaped insulator(standard), with L-shaped 0.9mm long solder tails
 - 3B ... Integrated L-shaped insulator(1.3mm off-set), with L-shaped 0.7mm long solder tails
- Kind of lock screw blocks:
 - 3F ... • With metal fixtures having an M2.5 thread
 - Without lock screw blocks, but with a No.4-40UNC thread
 - 6L ... • Without grounding adapters with a spring lock device
 - Without lock screw blocks, but with a No.4-40UNC thread
- Finish of mating part
 - 10 ... Gold-plated (flash)
 - 19 ... 0.76micron gold-plated

D SUBMINIATURE CONNECTOR KS SERIES

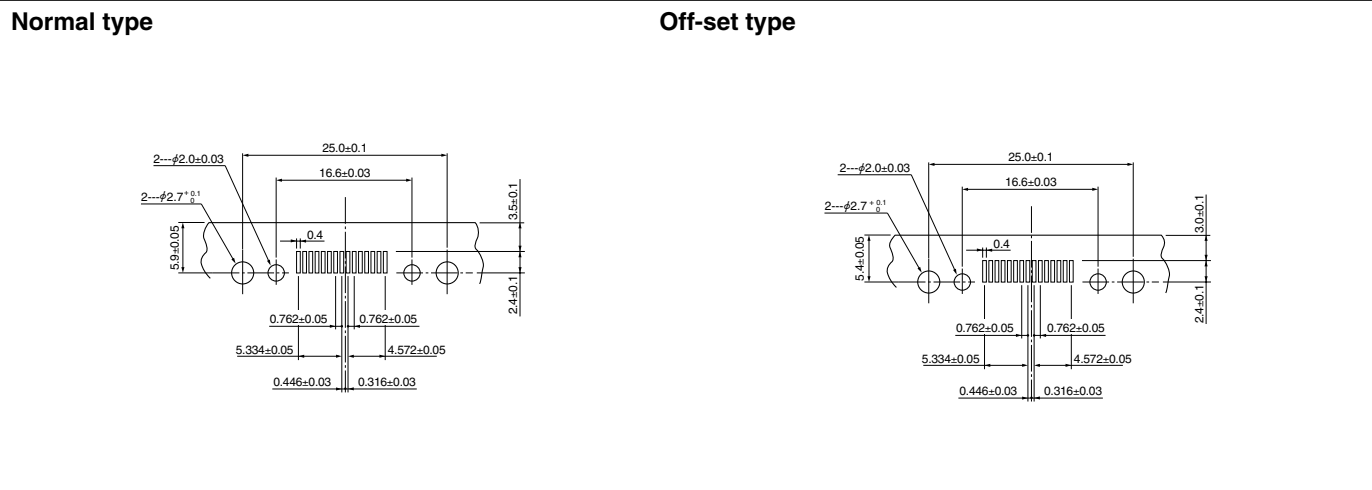
Right angle SMT configuration socket



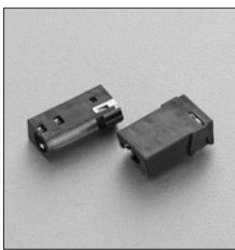
Type	Circuits	Model No.	Q'ty / box
Normal	15	KSEY-15S-1A3F19-13	150
Off-set	15	KSEY-15S-3B6L19-13	150

RoHS compliance This product displays (LF)(SN) on a label.

PC board layout (viewed from component side)



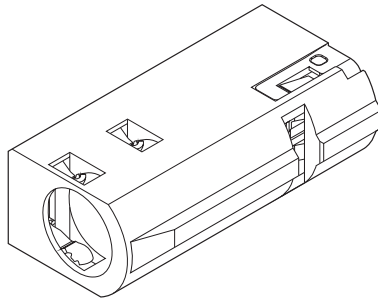
Note: 1. Tolerances are non-cumulative: ±0.03mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.



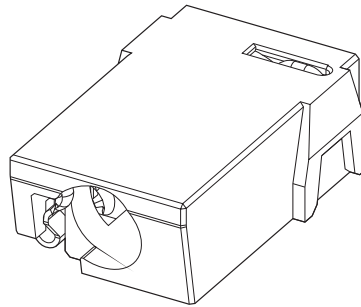
EP CONNECTOR SERIES



Interface type



3.5EP Type R



3.5EP SLANT3 Type

3.5EP Type R

- **3.5mm in diameter. Connector for 4-circuit plug (EIAJ RC-5325A-compliant plug)**
- **Normal close, Independent switch**
The plug with different GND position is also available by adopting the plug and the block electricity switch function.
- **Round shape**
This connector shape is available for round shape of adoption chassis.
- **Adopting two contact points terminal**
2 contact points terminal for the GND/MIC terminal is adopted to reduce the electrical resistance.

3.5EP SLANT3 Type

- **3.5mm in diameter. Connector for 4-circuit plug (EIAJ RC-5325A-compliant plug)**
- **Normal close, Independent switch**
The plug with different GND position is also available by adopting the plug and the block electricity switch function.
- **Insertion and withdrawal forces of plug**
Lock pin is adopted to improve insertion force feeling and to strengthen withdrawal force of plug.
- **Biotechnology resin**
Resin produced by partially using the plant-based raw material for the housing material is adopted.

Specifications

3.5EP Type R

- Current rating: 2A AC, DC
- Voltage rating: 30V AC, DC
- Temperature range: -30°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Ground contact/20m Ω max.
Other contacts/50m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 400V AC/minute

3.5EP SLANT3 Type

- Current rating: 2A AC, DC
- Voltage rating: 30V AC, DC
- Temperature range: -30°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Ground contact/20m Ω max.
Other contacts/60m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 400V AC/minute

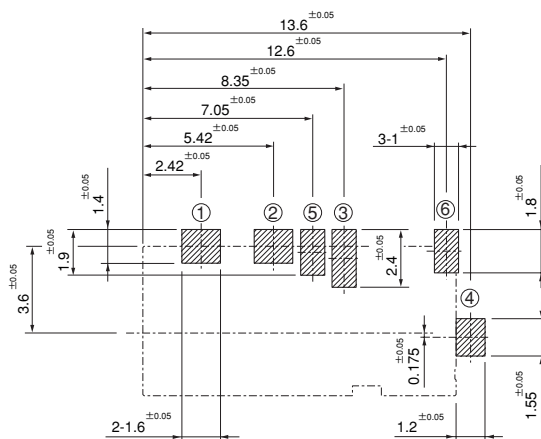
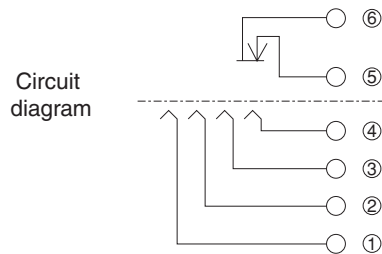
* Compliant with RoHS.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

EP CONNECTOR SERIES

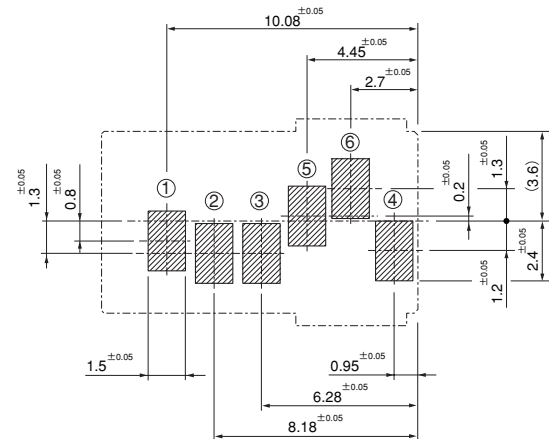
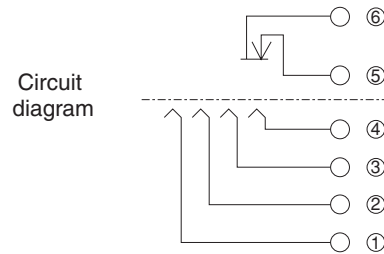
3.5EP Type R



Note:1. Viewed from component side. (above figures)

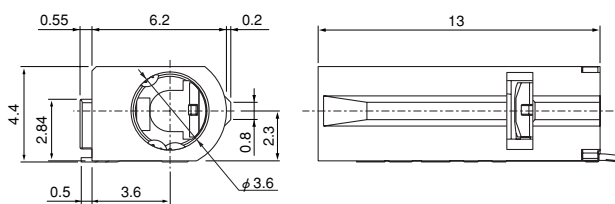
2. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers. The dimensions above should serve as a guideline. Contact JST for details.

3.5EP SLANT3 Type

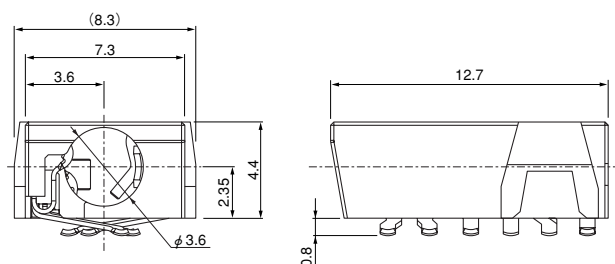


Connector

3.5EP Type R



3.5EP SLANT3 Type



Type	Circuits	Model No.	Q'ty / reel
Type R	6	3.5EP-R NMP(HF)	1,500
SLANT3 Type		3.5EP-SL3-C NMP(HF)	1,000

Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated

Housing: Thermoplastic resin, UL94-HB, black

Lock pin: Stainless

RoHS compliance



MD CONNECTOR

Miniature circular connectors

The extremely compact MD miniature circular connector has an outside diameter roughly half that of conventional circular DIN connectors. The connector's contact exclusively designed by JST dramatically reduces assembly time while improving contact reliability. The MD connector's shielding is superb. All you need to do is crimp the connector ground clip over the cable's braided shielding wire. Simple and reliable, JST's MD connector is well suited for the production of high-density office automation equipments as well as audio and video products.

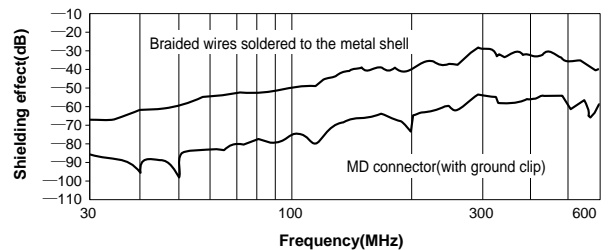
- **Crimp contact with integral construction for improved reliability**
- **Easy assembly without using special tools**
- **Simple braid-to-connector assembly and effective EMI protection**

Standards

Recognized E60389

Certified LR20812

Shielding effect



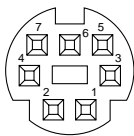
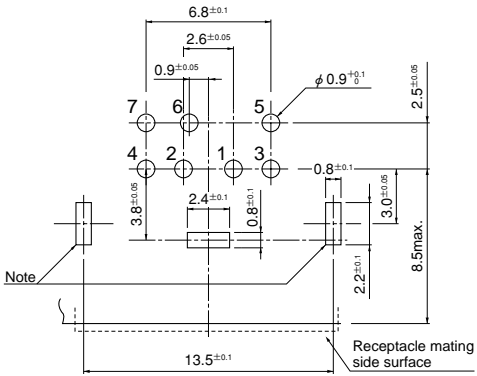

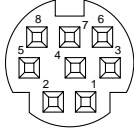
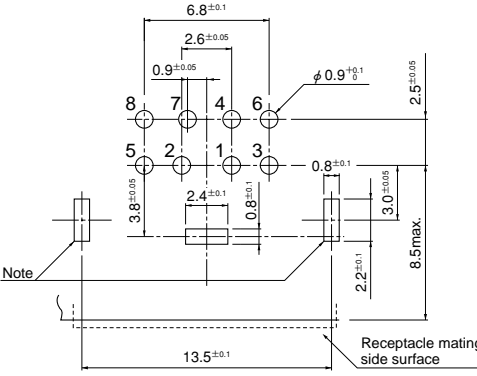
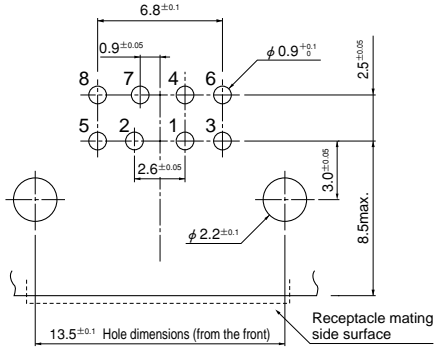
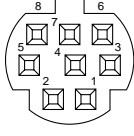
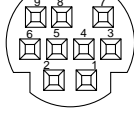
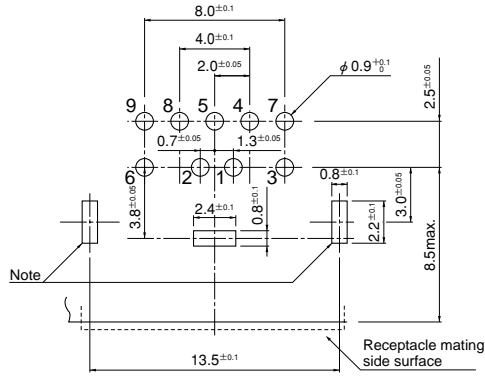

• The shielding effect differs depending on the wire specifications.

- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

PC board layout

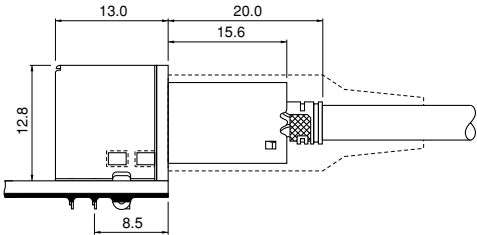
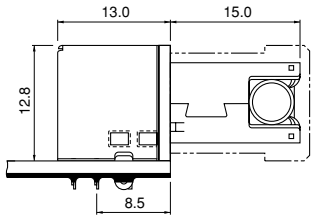
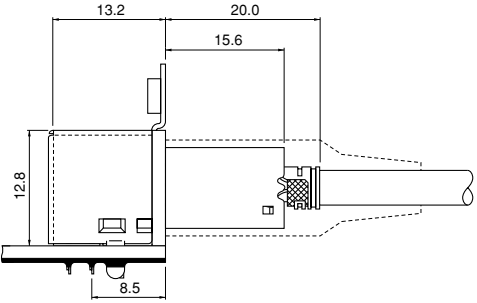
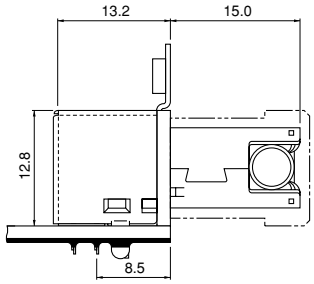
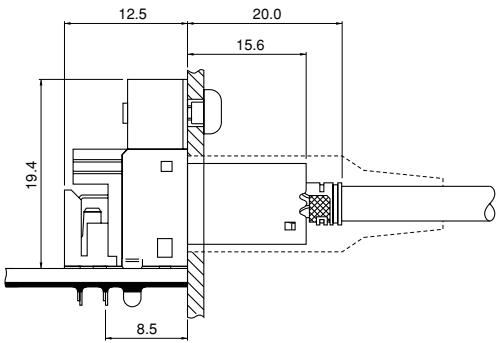
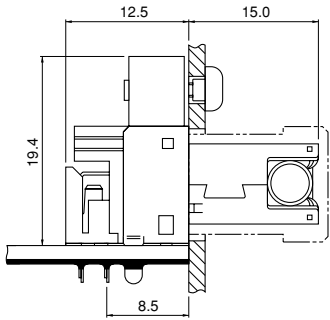
Layout Circuits	Mating section layout	PC board layout (viewed from component side)	
		Standard and Type B	Front shielding type
4			
5			
6			

MD CONNECTOR

Layout Circuits	Mating section layout	PC board layout (viewed from component side)	
		Standard and Type B	Front shielding type
7			
8			
	(Type B) 		
9			

Note: 1. The two holes are necessary when installing a shielding cover.
2. Tolerances are non-cumulative: ±0.05mm for all centers.
3. Hole dimensions differ depending on the kind of PC board and piercing method. The dimensions above should serve as a guideline.
For details, contact JST.
4. The layout drawing is viewed from the receptacle mounting side.
5. When using a receptacle with shielding cover or with flange shielding cover, the pattern should be designed to connect the shielding cover and the shielding tube, if necessary. (No need for the front shielding cover.)

Assembly layout

<div>Plug</div> <div>Receptacle</div>	Straight type	Side entry type
Standard type Type B With shielding cover		
Standard type Type B With flange shielding cover		
Front shielding type		

MD CONNECTOR

Plug

Straight type plug

Contact

JST's exclusive one-piece contact is formed and cold worked by stamping presses to ensure the highest reliability.

Housing B

Metal Shell

Three shell types (standard, A and B) are available.

Solder tail

Ground clip

If used, the ground clip is crimped to cover the cable braid.

Housing A

Housing A is designed to keep the contacts firmly in place while protecting them from damage.

Assembled product

Molded product

Side entry type plug

Contact

Metal Shell

One piece including ground clip

Housing A

Housing B

Assembled product

Molded product

Specifications

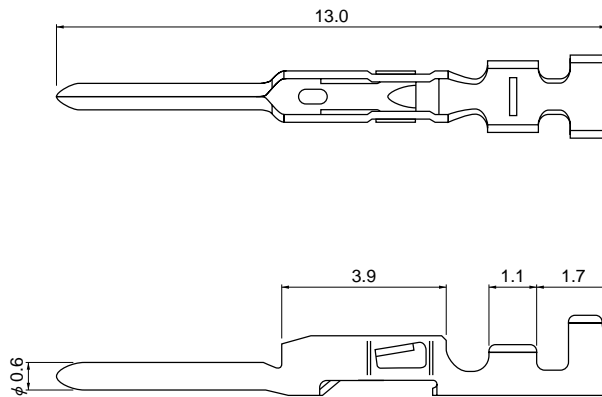
Materials

Part name	Material and Finish
Contact	Phosphor bronze, nickel-undercoated, Mating part: gold-plated Crimping part: tin-plated (reflow treatment) Phosphor bronze, tin-plated (reflow treatment) Phosphor bronze, nickel-undercoated silver-plated
Housing A, B	PBT, UL94V-0, black
Metal shell	Steel, nickel-plated
Ground clip	Brass, nickel-plated

Characteristics

Current rating	1.0A, AC, DC (AWG#26)
Voltage rating	50V, AC, DC
Temperature range	-25°C ~ +85°C(including temperature rise in applying electrical current)
Contact resistance	Initial value: 100mΩ max. After environmental testing: 300mΩ max.
Insulation resistance	50MΩ min.
Withstanding voltage	500V AC/minute
Applicable wire	AWG #30 ~ #24

Plug contact



Model No.			Applicable wire			Q'ty / reel
Gold-plated (flash)	Silver-plated	Tin-plated	mm ²	AWG #	Insulation O.D. (mm)	
MD-SP2240	MD-SP2270	MD-SP2290	0.06 ~ 0.13	30 ~ 26	0.7 ~ 1.1	10,000
MD-SP1240	MD-SP1270	MD-SP1290	0.13 ~ 0.2	26 ~ 24	1.0 ~ 1.2	10,000

RoHS compliance Gold-plated products display (LF)(SN) on a label.

Model number identification

	MD	-	S	P	2	2	40
• Series name							
• Product from: S ... Chain, B ... Loose piece							
• Type of contact: P ... Plug contact							
• Applicable wire: 1 ... AWG #26 ~ #24 2 ... AWG #30 ~ #26							
• Material: 2 ... Phosphor bronze							
• Finish 40 ... Gold-plated (flash) 44 ... 0.76 micron gold-plated 45 ... 1.3 micron gold-plated 70 ... Silver-plated 90 ... Tin-plated (reflow treatment)							

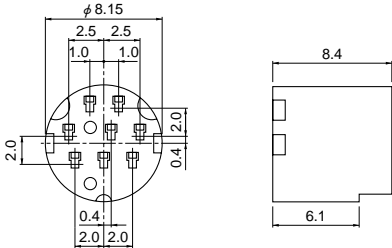
*Contact JST for details.

MD CONNECTOR

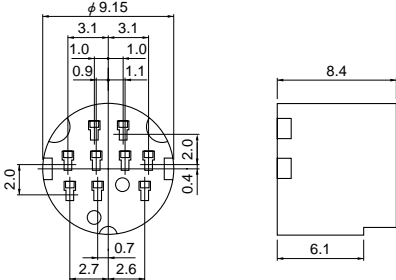
Housing

Housing A

(With 4 to 8 circuits)

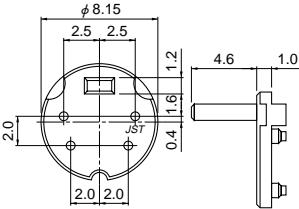


(With 9 circuits)

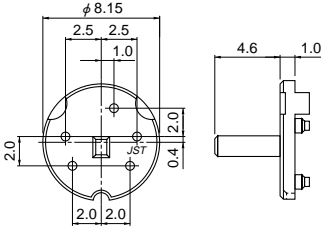


Housing B

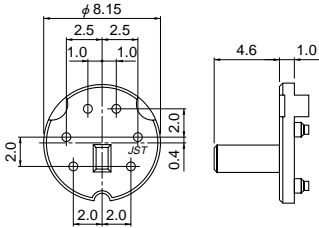
(With 4 circuits)



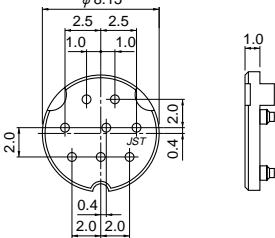
(With 5 circuits)



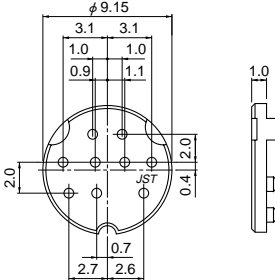
(With 6 circuits)



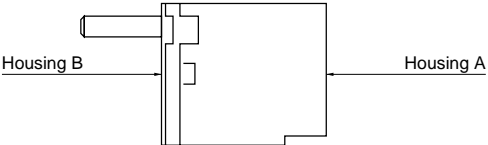
(With 8 circuits)



(With 9 circuits)



Combined housings A and B



Housing A is used with housing B. Housing B must have the same number of orifices as there will be contacts in the connector. However, housing A can have a greater number of cavities (but never less). Thus in applications in which a user may require MD connectors with different pin counts, only one kind of "A" housing needs to be inventoried - the one with the highest pin count. For more details regarding such combinations, contact JST.

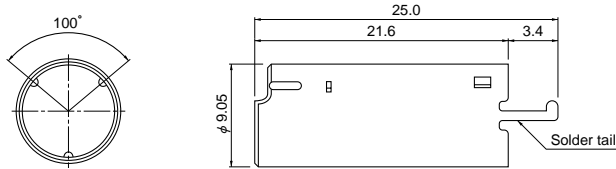
Circuits	Model No.		Q'ty / box
	Housing A	Housing B	
4	MD-PI 4A	MD-PI 4B	1,000
5	—	MD-PI 5B	1,000
6	MD-PI 6A	MD-PI 6B	1,000
8	MD-PI 8A	MD-PI 8B	1,000
9	MD-PI 9A	MD-PI 9B	1,000

RoHS compliance
Note: MD-PI5B is not CSA certified.

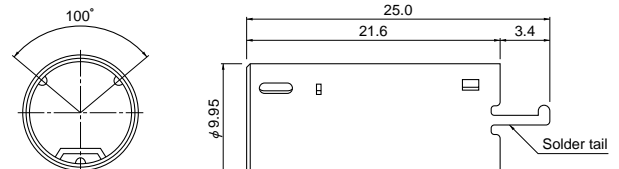
Metal shell (straight type)

Standard type

(With 4 to 8 circuits)

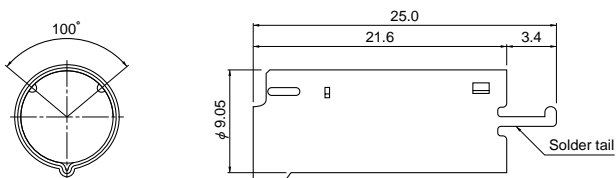


(With 9 circuits)



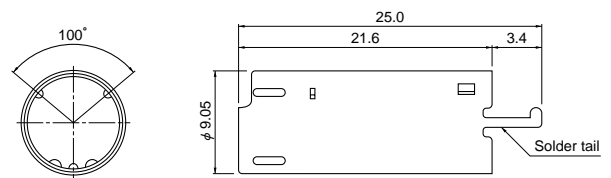
Type A

(features polarizing keys, usable with S-VHS connector)



Type B

(features 4 polarizing keys, usable with having 8 circuits)

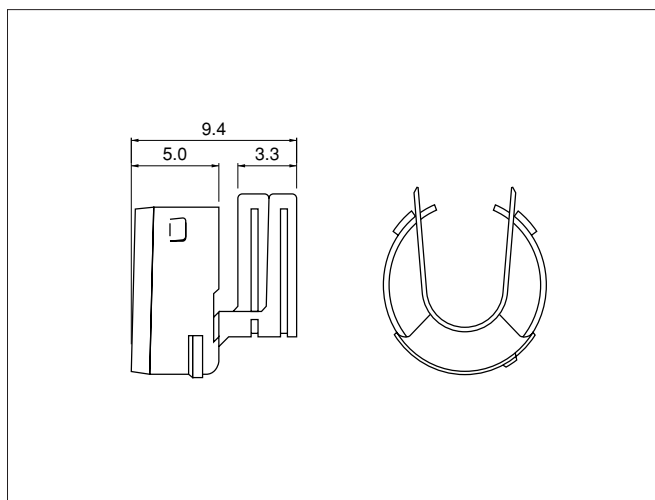


Circuits	Model No.						Q'ty / box
	Standard		Type A (features three polarizing keys)		Type B (features 4 polarizing keys...8 circuits only)		
	With solder tail	Without solder tail	With solder tail	Without solder tail	With solder tail	Without solder tail	
4 ~ 8	MD-PS8T	*MD-PS8T1	*MD-PS8AT	*MD-PS8AT1	*MD-PS8BT	*MD-PS8BT1	750
9	MD-PS9T	*MD-PS9T1	—	—	—	—	750

RoHS compliance

*Marked products are not CSA certified.

Ground clip



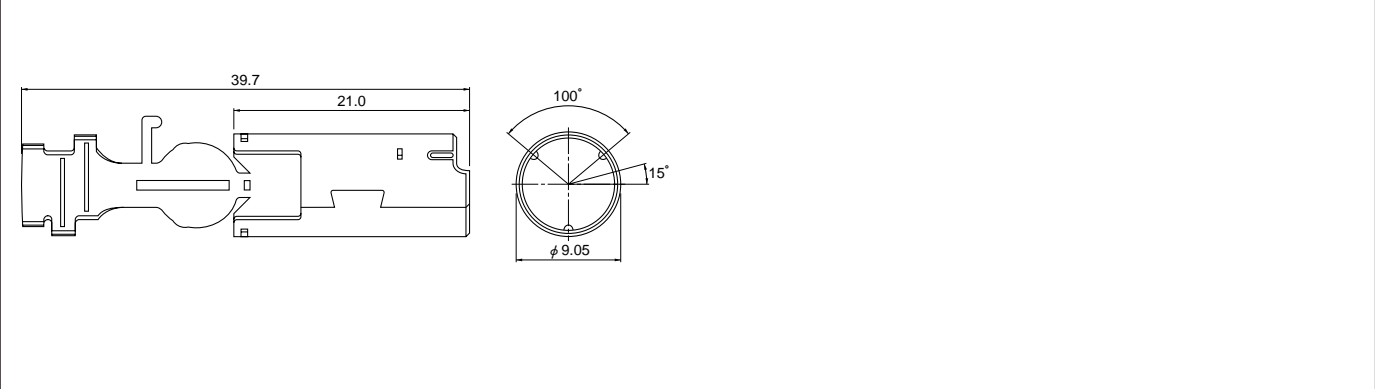
Circuits	Model No.	Applicable cable O.D.(mm)	Q'ty / reel
4 ~ 8	MD-PCC8T-S1	2.7 ~ 3.8	1,000
	MD-PCC8T-S2	4.3 ~ 5.5	1,000
9	MD-PCC9T-S3	3.6 ~ 4.8	1,000

RoHS compliance

MD CONNECTOR

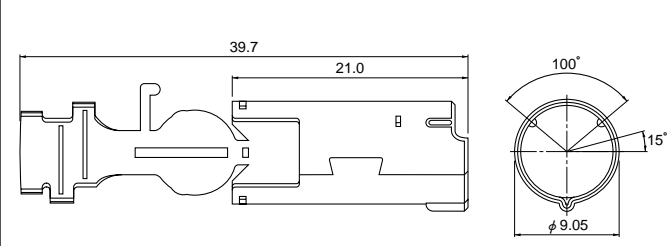
Metal shell (side entry type)

Standard type



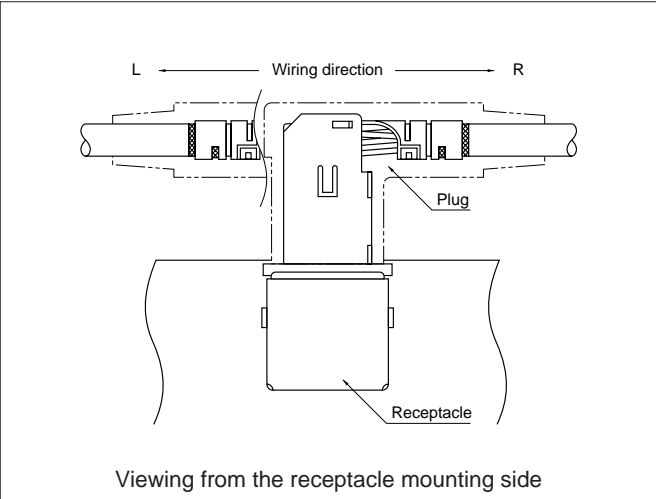
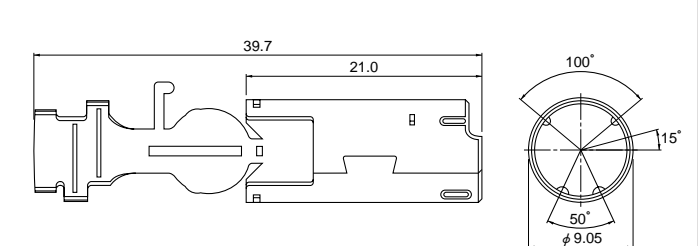
Type A

(features polarizing keys, usable with S-VHS connector)



Type B

(features 4 polarizing keys, usable with housing having 8 circuits)



Type	Circuits	Model number		Q'ty / box
		R	L	
Standard	4 ~ 8	MD-PS8SR	MD-PS8SL	500
A	4 ~ 8	MD-PS8ASR	—	500
B	8	MD-PS8BSR	—	500

RoHS compliance

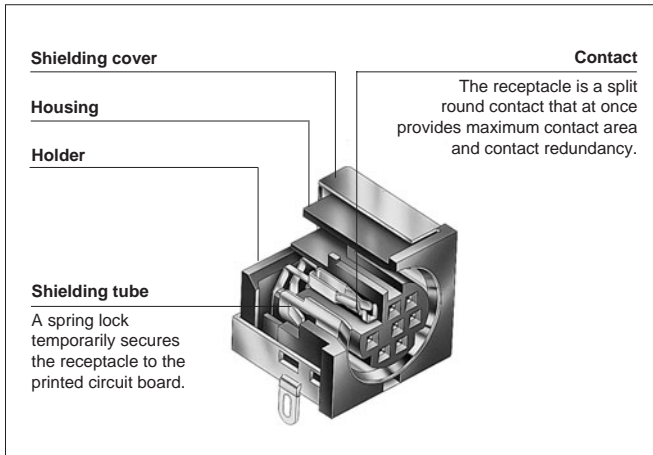
Crimping machine, Applicator

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
MD-PCC8T-S1	AP-K2N	MKS-L	MK/MD-PCC8T-S1	APLMK MD-PCC8T-S1
		*MKS-SC	—	—
MD-PCC8T-S2		MKS-L	MK/MD-PCC8T-S2	APLMK MD-PCC8T-S2
		*MKS-SC	—	—
MD-PCC8T-S3		MKS-L	MK/MD-PCC8T-S3	APLMK MD-PCC8T-S3
		*MKS-SC	—	—
MD-PS8SL		MKS-L-RG	MK/MD-PS8SR	APLMK MD-PS8SR
		*MKS-SC	—	—
MD-PS8ASR		MKS-L-RG	MK/MD-PS8SR	APLMK MD-PS8SR
		*MKS-SC	—	—

Note: *Strip-crimp applicator

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
MD-PS8BSR	AP-K2N	MKS-L-RG	MK/MD-PS8SR	APLMK MD-PS8SR
		*MKS-SC	—	—
MD-PS8SR		MKS-L-RG	MK/MD-PS8SR	APLMK MD-PS8SR
		*MKS-SC	—	—
MD-SP12**		MKS-L	MK/MD-SP12	APLMK MD-SP12
		*MKS-SC	SC/MD-SP12	APLSC MD-SP12
MD-SP22**		MKS-L	MK/MD-SP22	APLMK MD-SP22
		*MKS-SC	SC/MD-SP22	APLSC MD-SP22

Receptacle (through-hole type)

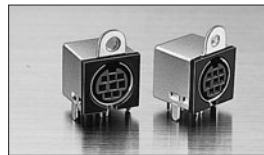


• Split round contact provides maximum contact area and contact redundancy

The receptacle contact is split to insure redundant connection and is cylindrically shaped to provide maximum contact mating area. The result is a highly reliable connection to the mating pin. This superb contact performance is maintained even after many mating and unmating cycles.

• Flange construction

The flange construction allows the receptacle to be secured on the equipment chassis with screws, ensuring more reliable electrical connection.



Standard type with flange shielding cover

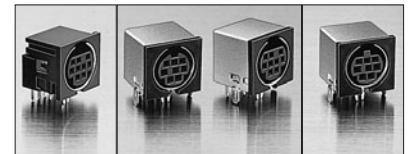
(Standard type/Type B)

• Compact, high-density design

This receptacle has a low profile with a mounting height of just 12.8mm and width of 14.0mm. It takes up little space on the printed circuit board, allowing high-density product design.

• Spring locks make it easy to temporarily secure receptacles to printed circuit boards for soldering

The shielding tubes are equipped with spring locks which can be used to temporarily secure the receptacles to printed circuit boards. This prevents the receptacles from moving and ensures reliable soldering.



Standard type without shielding cover (left)
Standard type with shielding cover (center)
Type B (applicable to Type B plug) (right)

(Front shielding type)

• Front shielding construction

A metal shielding cover integrating the connection part which connects to the plug's shell is used. Because there is no gap between the receptacle and the plug, this construction prevents the entry of space conductive noise.

• Effective shielding

With the front shielding construction and the flange construction, the shielding effect is improved by about 15 dB over the conventional models.



Front shielding type receptacle

Specifications

Materials

Part name	Material and Finish
Contact	Phosphor bronze, nickel-undercoated, Mating part: gold-plated Solder tail: tin-plated (reflow treatment) Phosphor bronze, nickel-undercoated silver-plated Phosphor bronze, tin-plated (reflow treatment)
Housing / Holder	PBT, UL94V-0

Characteristics

Current rating	1.0A, AC, DC
Voltage rating	50V, AC, DC
Temperature range	-25°C ~ +85°C (including temperature rise in applying electrical current)
Contact resistance	Initial value: 100mΩ max. After environmental testing: 300mΩ max.
Withstanding voltage	500V AC/minute
Applicable PC board thickness	1.6mm

[Standard type/Type B]

Shielding tube	Brass, nickel-plated (*note)
Shielding cover	Brass, nickel-undercoated, tin/copper alloy-plated

[Front shielding Type]

Shielding cover	Brass, nickel-plated (*note)
-----------------	------------------------------

Note: Use soldering flux that is suitable for nickel-plating. Tin plated version is also available.

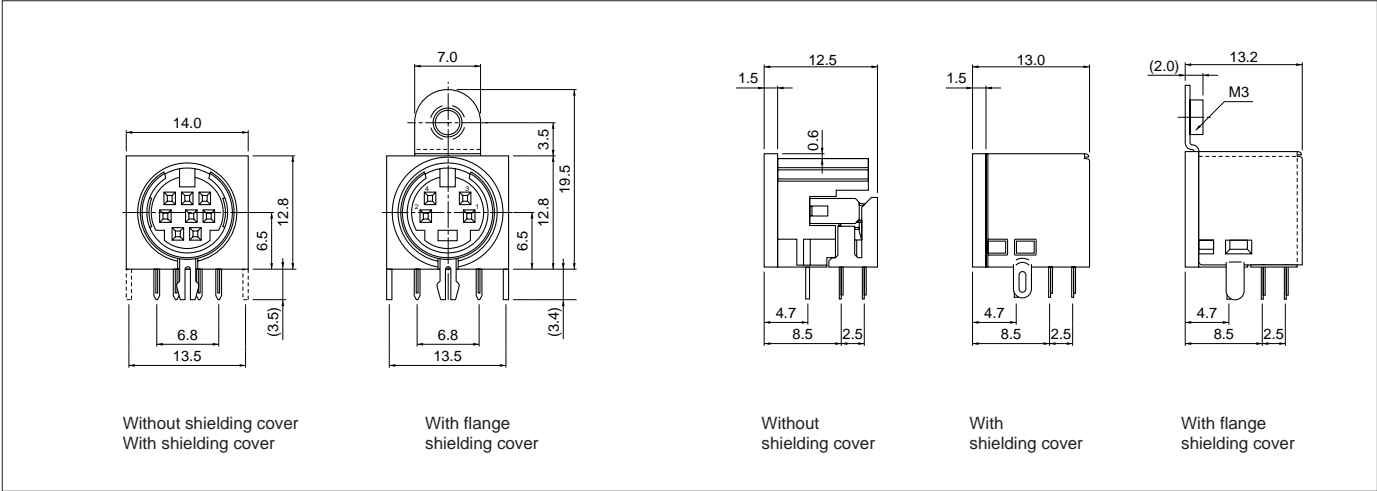
Model number identification

MD	-	S	8	0	00	B	-	10
<p>• Series name</p> <p>• Product name: S ... Receptacle</p> <p>• Circuits: 4, 5, 6, 7, 8, 9</p> <p>• Shielding cover: 0 ... Without shielding cover 1 ... With shielding cover 3 ... With front shielding cover</p> <p>• Flange: 00 ... Without flange 30 ... With flange 50 ... With top flange with nuts</p> <p>• Type B indication B ... Type B (Applicable to Type B plug) Blank...Standard type (Applicable to Standard and Type A plugs) ...Front shielding type (Applicable to Standard and Type plugs)</p> <p>• Finish 10 ... Gold-plated (flash) 13 ... 0.4micron gold-plated 14 ... 0.76micron gold-plated 70 ... Silver-plated 90 ... Tin-plated (reflow treatment)</p>								

Note: Contact JST for special plating requirements.

MD CONNECTOR

Standard type / Type B



• Standard type: Without shielding cover

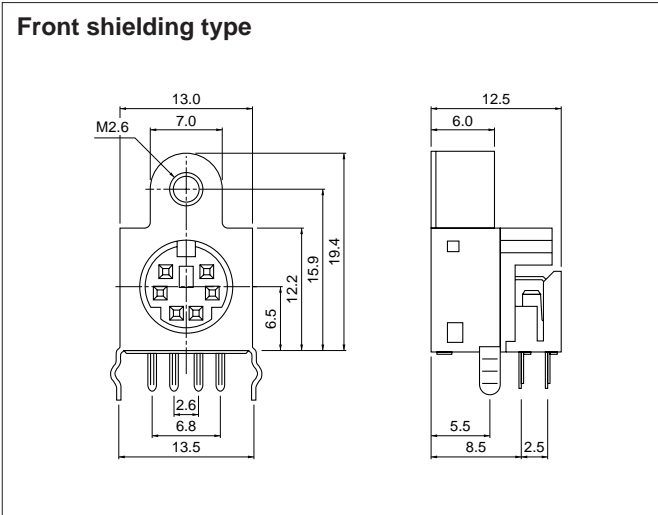
Cir- cuits	Model No.			Q'ty / box
	Gold-plated(flash)receptacle	Silver-plated receptacle	Tin-plated receptacle	
4	MD-S4000-10	MD-S4000-70	MD-S4000-90	200
5	MD-S5000-10	MD-S5000-70	MD-S5000-90	200
6	MD-S6000-10	MD-S6000-70	MD-S6000-90	200
7	MD-S7000-10	MD-S7000-70	MD-S7000-90	200
8	MD-S8000-10	MD-S8000-70	MD-S8000-90	200
9	MD-S9000-10	MD-S9000-70	MD-S9000-90	200

RoHS compliance Gold-plated products display (LF)(SN) on a label.

• Standard type: With shielding cover

Cir- cuits	Model No.			Q'ty / box
	Gold-plated(flash)receptacle	Silver-plated receptacle	Tin-plated receptacle	
4	MD-S4100-10	MD-S4100-70	MD-S4100-90	200
5	MD-S5100-10	MD-S5100-70	MD-S5100-90	200
6	MD-S6100-10	MD-S6100-70	MD-S6100-90	200
7	MD-S7100-10	MD-S7100-70	MD-S7100-90	200
8	MD-S8100-10	MD-S8100-70	MD-S8100-90	200
9	MD-S9100-10	MD-S9100-70	MD-S9100-90	200

RoHS compliance Gold-plated products display (LF)(SN) on a label.
Silver-plated/Tin-plated products display (LF) on a label.



• Standard type: With flange shielding cover

Cir- cuits	Model No.			Q'ty / box
	Gold-plated(flash)receptacle	Silver-plated receptacle	Tin-plated receptacle	
4	MD-S4130-10	MD-S4130-70	MD-S4130-90	200
5	MD-S5130-10	MD-S5130-70	MD-S5130-90	200
6	MD-S6130-10	MD-S6130-70	MD-S6130-90	200
7	MD-S7130-10	MD-S7130-70	MD-S7130-90	200
8	MD-S8130-10	MD-S8130-70	MD-S8130-90	200

RoHS compliance Gold-plated products display (LF)(SN) on a label.
Silver-plated/Tin-plated products display (LF) on a label.

• Type B: Without shielding cover

Cir- cuits	Model No.			Q'ty / box
	Gold-plated(flash)receptacle	Silver-plated receptacle	Tin-plated receptacle	
8	MD-S8000B-10	MD-S8000B-70	MD-S8000B-90	200

RoHS compliance Gold-plated products display (LF)(SN) on a label.

• Type B: With shielding cover

Cir- cuits	Model No.			Q'ty / box
	Gold-plated(flash)receptacle	Silver-plated receptacle	Tin-plated receptacle	
8	MD-S8100B-10	MD-S8100B-70	MD-S8100B-90	200

RoHS compliance Gold-plated products display (LF)(SN) on a label.
Silver-plated/Tin-plated products display (LF) on a label.

• Type B: With flange shielding cover

Cir- cuits	Model No.			Q'ty / box
	Gold-plated(flash)receptacle	Silver-plated receptacle	Tin-plated receptacle	
8	MD-S8130B-10	MD-S8130B-70	MD-S8130B-90	200

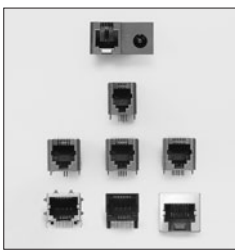
RoHS compliance Gold-plated products display (LF)(SN) on a label.
Silver-plated/Tin-plated products display (LF) on a label.

• Front shielding type

Cir- cuits	Model No.			Q'ty / box
	Gold-plated(flash)receptacle	Silver-plated receptacle	Tin-plated receptacle	
4	MD-S4350-10	MD-S4350-70	MD-S4350-90	200
5	MD-S5350-10	MD-S5350-70	MD-S5350-90	200
6	MD-S6350-10	MD-S6350-70	MD-S6350-90	200
8	MD-S8350-10	MD-S8350-70	MD-S8350-90	200

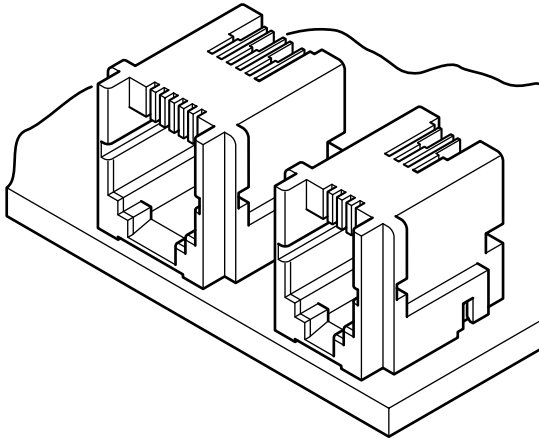
RoHS compliance Gold-plated products display (LF)(SN) A on a label.
Silver-plated/Tin-plated products display (LF) A on a label.
(— shows space.)





MJ CONNECTOR

Modular jack connectors



- Upper contact point
- Metal hook
- Shielding effect
- Grounding
- Correspond to high-speed LAN transmission (MJ-88U-SD315K-T)

Specifications

- Current rating: 1.3A AC, DC
- Voltage rating: 250V AC, DC
- Temperature range: -40°C to +80°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/20m Ω max.
After environmental testing/40m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,000V AC/minute
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

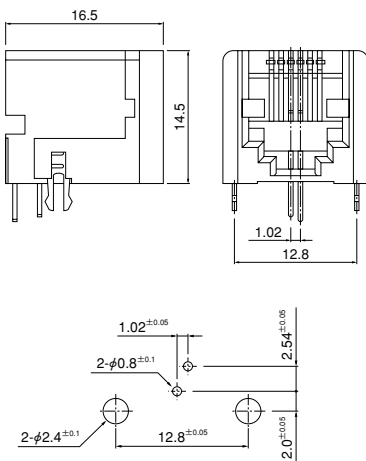
Standards

Recognized E174260

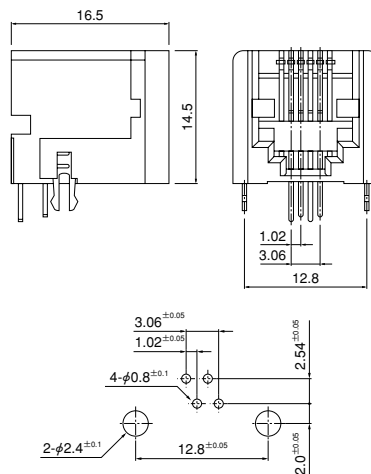
Certified LR20812
Conforms to FCC Standards
(6 circuits and 8 circuits MJ connector)

Connector

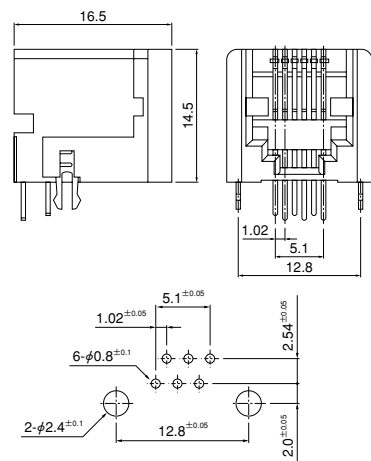
Normal type 2/6 type



4/6 type



6/6 type

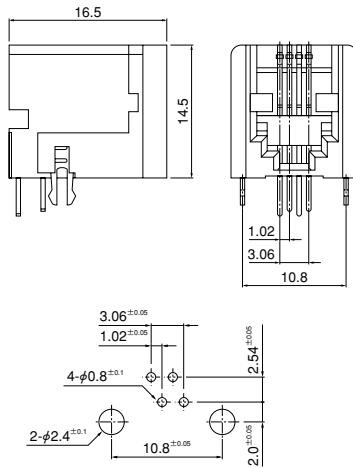


Note: 1. Tolerances are non-cumulative: ± 0.05 mm for all centers.

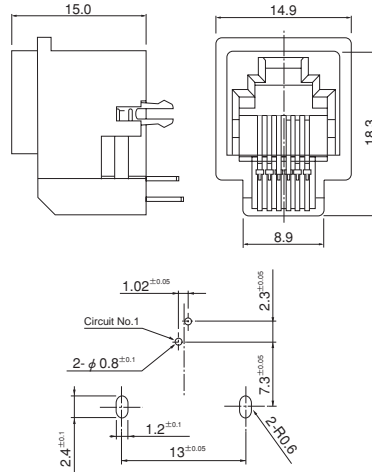
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Connector and PC board layout (viewed from component side)

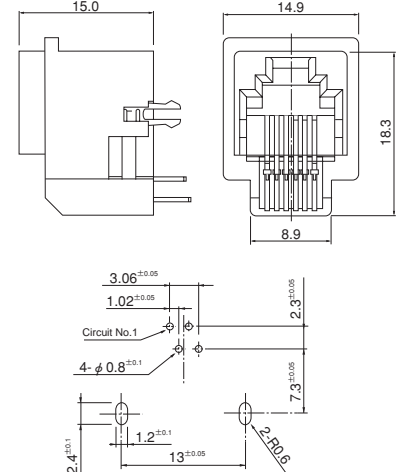
**Normal type
4/4 type**



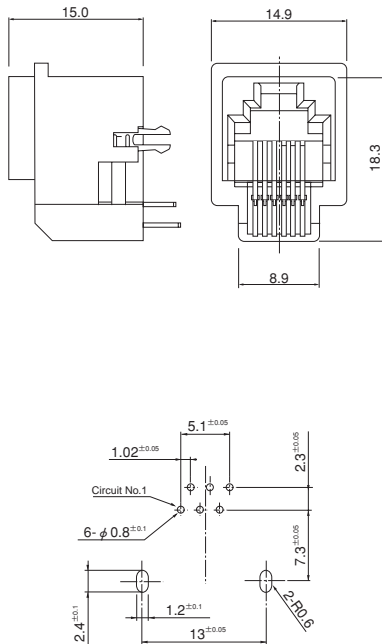
**Straight type
2/6 type**



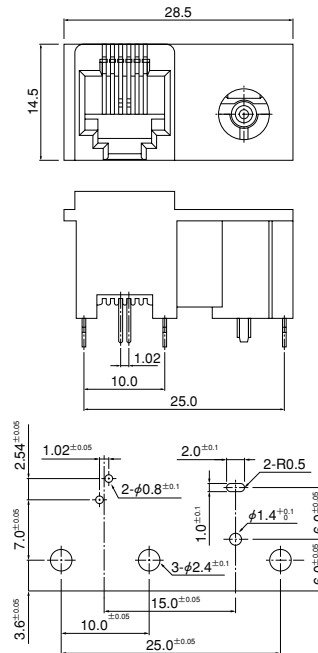
4/6 type



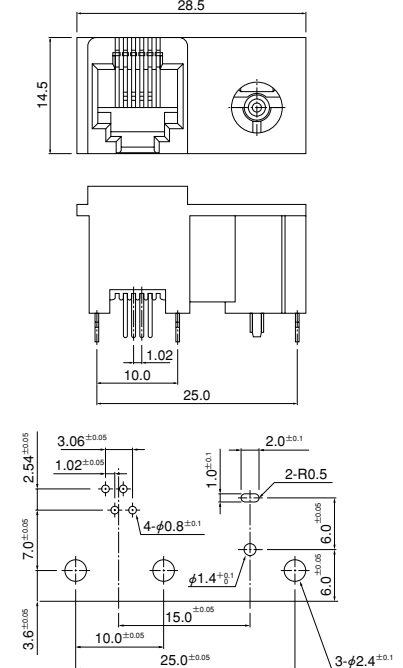
6/6 type



2/6 type with DC jack



4/6 type with DC jack



Type	Circuits	Model No.	Q'ty / box
Normal type	2/6	MJ-62J-RD315	270
	4/6	MJ-64J-RD315	270
	6/6	MJ-66J-RD315	270
	4/4	MJ-44J-RD315	306
Straight type	2/6	MJ-62C-SD335	180
	4/6	MJ-64C-SD335	180
	6/6	MJ-66C-SD335	180
	2/6 with DC jack	MJ-62D-SD335	108
	4/6 with DC jack	MJ-64D-SD335	108

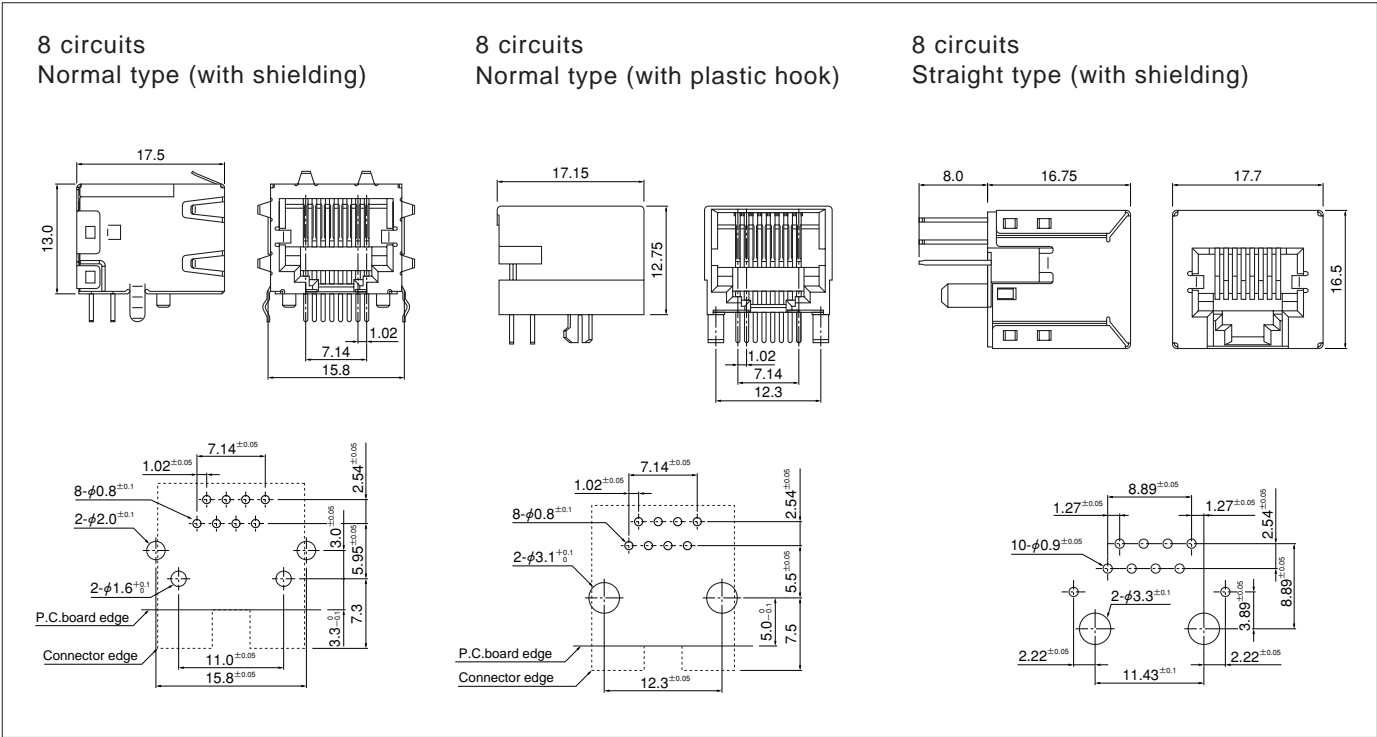
Material and Finish
Contact: Normal type/ Phosphor bronze, nickel-undercoated, Mating part; gold-plated 1.27μm min. Solder tail; tin-plated (reflow treatment)
Straight type/ Phosphor bronze, nickel-undercoated, Mating part; gold-plated 1.27μm min. Overall; gold-plated (flash)
Housing: Glass-filled PBT, UL94V-0 Hook pin: Brass, tin-plated (reflow treatment) Moving contact (spring): Copper alloy, tin-plated (reflow treatment) [with-DC-jack type only] Stationary contact (pin): Brass, nickel-undercoated, tin/copper alloy-plated [with-DC-jack type only]

Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method.
The dimensions above should serve as a guideline. Contact JST for details.

RoHS compliance This product displays (LF)(SN) on a label.
The product with DC jack displays (LF) on a label.

MJ CONNECTOR

Connector and PC board layout (viewed from component side)



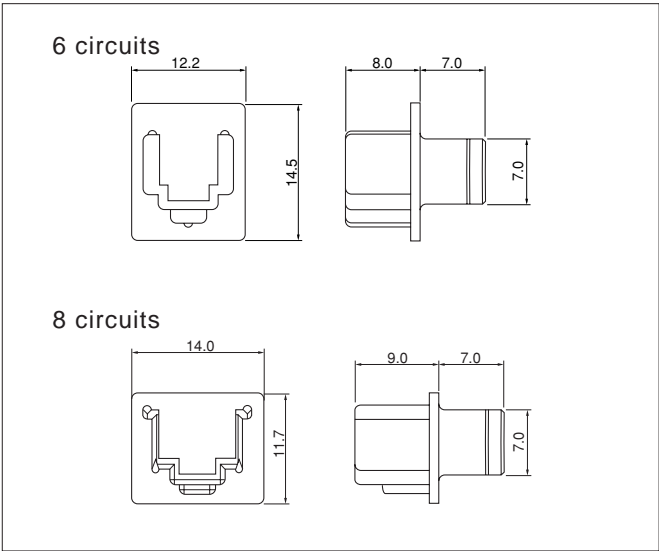
Type	Circuits	Model No.	Q'ty / box
Normal type (with shielding)	8	MJ-88H-RD315K	520
Normal type (with plastic hook)	8	MJ-88R-RD315K	520
Straight type (with shielding)	8	MJ-88U-SD315K-T	144

Material and Finish			
Contact: Phosphor bronze, nickel-undercoated, Mating part: gold-plated 1.27μm min. Solder tail: tin-plated (reflow treatment)			
Housing: Glass-filled PBT, UL94V-0(Normal type) Glass-filled LCP, UL94V-0(Straight type)			
Shield cover: Phosphor bronze, tin-plated (reflow treatment) [Normal type, Straight type] Shield pin: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment) [Straight type]			

RoHS compliance This product displays (LF)(SN) on a label.

Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method.
The dimensions above should serve as a guideline. Contact JST for details.

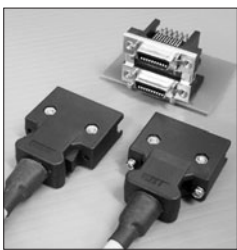
Cap for dust



Circuits	Model No.	Q'ty / box
6	MJ-JP56K	500
8	MJ-JP68K	1,000

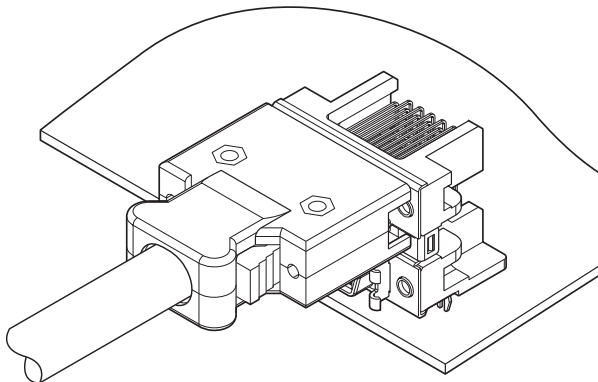
Material		
MJ-JP56K: PA 66, UL94V-0		
MJ-JP68K: PBT, UL94V-0		

RoHS compliance
Note: Not UL/CSA approved.



MS CONNECTOR

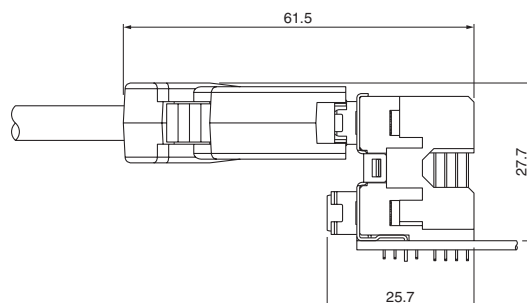
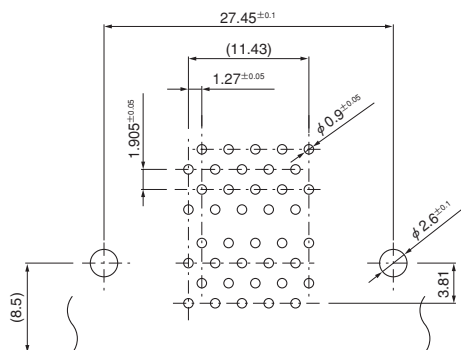
For Interface



- **Structure of unifying shell and metal hooks**
- **Double stack type receptacle**
- **Two kinds of plug locking device (Screw lock/ Latch lock)**
- **Wire soldering type**

Specifications

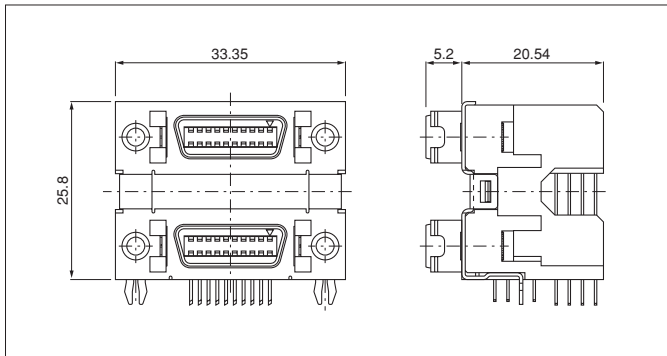
- Current rating: 1.0 A AC, DC
 - Voltage rating: 250 V AC, DC
 - Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
 - Contact resistance: Initial value/ 60 mΩ max.
After environmental tests/ 80 mΩ max.
 - Insulation resistance: 5,000 MΩ min.
 - Withstanding voltage: 500 VAC/minute
 - Applicable wire: Conductor size/ AWG#28
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Compliant with RoHS.



Note: 1. The above figure is the figure viewed from the connector mounting side.

2. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers. The dimensions above should serve as a guideline. Contact JST for details.

Receptacle



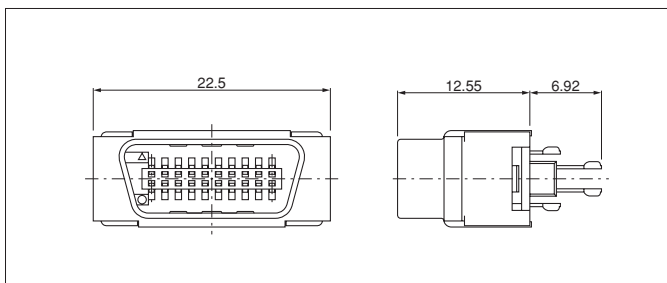
Circuits	Model No.	Q'ty / box
20	MSY-20DS-D101-21	140

Material and Finish

Housing: PBT, UL94V-0, black
 Contact: Phosphor bronze, nickel-undercoated, gold-plated
 Shell, Clamp: Steel
 Lock nut: Brass
 Locator: PBT

RoHS compliance

Plug



Circuits	Model No.	Q'ty / box
20	MS-P20-L	90

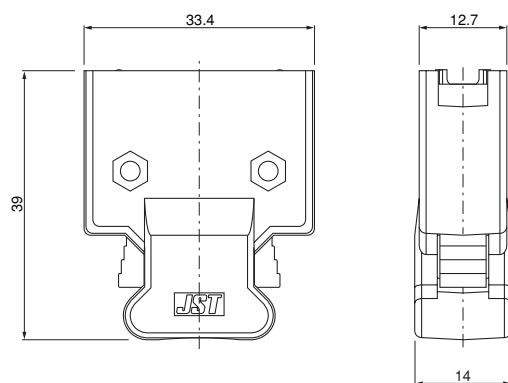
Material and Finish

Housing: PBT, UL94V-0, black
 Contact: Phosphor bronze, nickel-undercoated, gold-plated
 Shell, Clamp: Steel

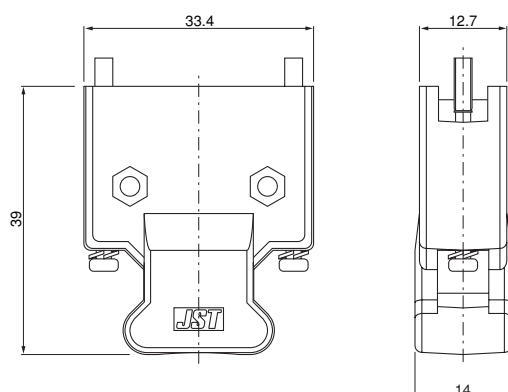
RoHS compliance

Plug cover

Latch lock type



Screw lock type



Circuits	Model No.	Q'ty / box
20	MS20-2B-28	450

Material

Housing: PBT, UL94V-0, black
 Metal part, Lock spring, Clamp: SUS
 Screw, Nut: Iron

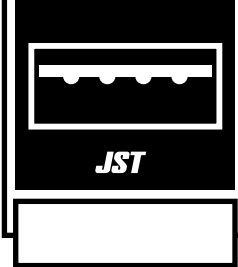
RoHS compliance

Circuits	Model No.	Q'ty / box
20	MS20-2A-28	450

Material

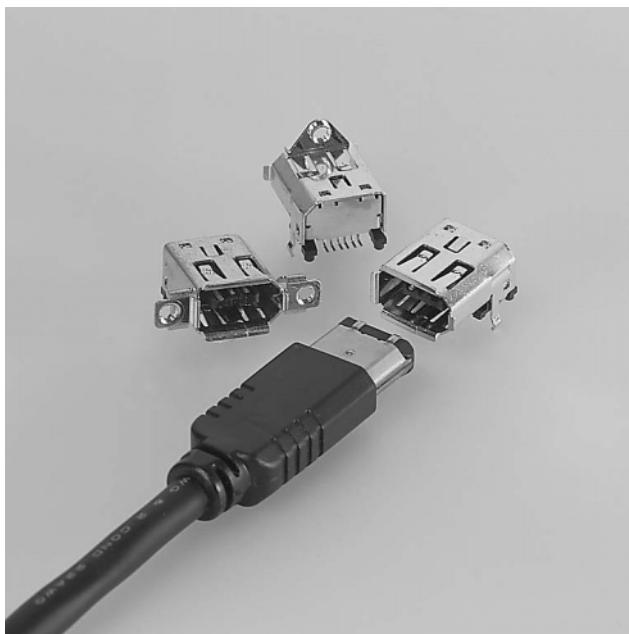
Housing: PBT, UL94V-0, black
 Metal part: SUS
 Screw, Nut: Iron

RoHS compliance

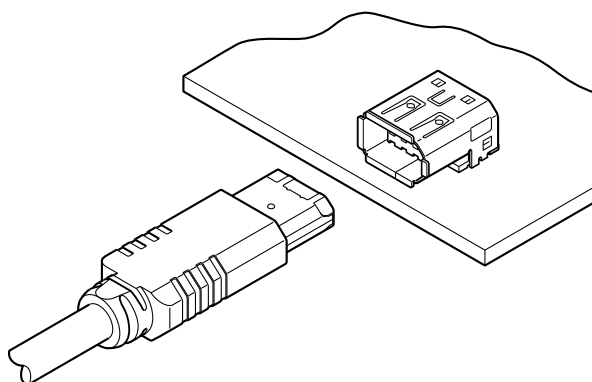


MV CONNECTOR

High-speed serial interface connectors



Conforming to the IEEE 1394-1995 standards, the MV connector is a high-speed serial interface connector designed to connect PCs and peripherals.



Features

• EMI shielding

Fully shielded receptacle and metal cover of the plug provides reliable EMI shielding.

• Receptacles with flange

Receptacles with flange are available in two types, either with upper flange or with side flange. They are secured to the chassis of the equipment with screw(s).

• SMT configuration

All the receptacles (3 types in total) are of SMT configuration.

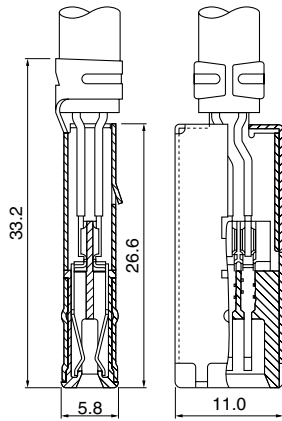
• The plug is designed to be overmolded.

Specifications

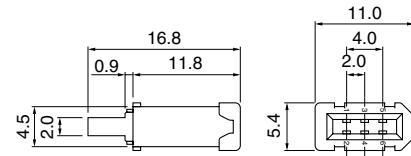
- Current rating: Signal circuits: 1.0A AC, DC/line
Power supply circuits: 3A AC, DC/line
- Voltage rating: 30V AC, DC
- Temperature range: -40°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/30m Ω max.
After environmental testing/30m Ω max.
(variation from initial value)
- Insulation resistance: 100M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable wire (Plug): Signal circuits/ AWG #28
Power supply circuits/ AWG #22
- Applicable cable O.D. (Plug): 6.1mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Plug

Assembly



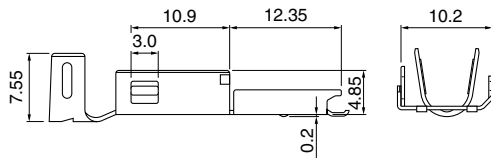
Housing (Contact inserted)



Model No.	Material and Finish
MV-PH6-D314	Contact: Copper alloy, Mating part; nickel-undercoated, gold-plated Solder tail; nickel-undercoated, tin-plated (reflow treatment) Housing: Heat resisting resin, UL94V-0

RoHS compliance This product displays (LF)(SN) on a label.

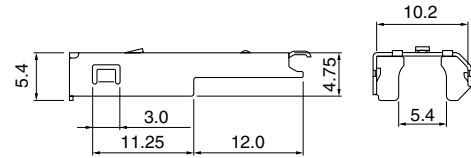
Metal cover A



Model No.	Material and Finish
MV-MC6A-7NK	Stainless, nickel-plated

RoHS compliance

Metal cover B



Model No.	Material and Finish
MV-MC6B-7NK	Stainless, nickel-plated

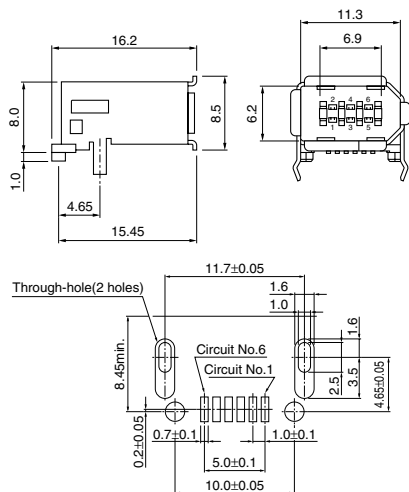
RoHS compliance

MV CONNECTOR

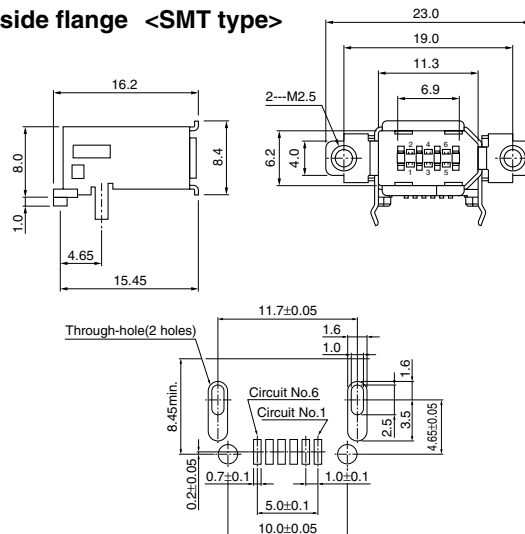
Receptacle

Standard

<SMT type>



With side flange <SMT type>



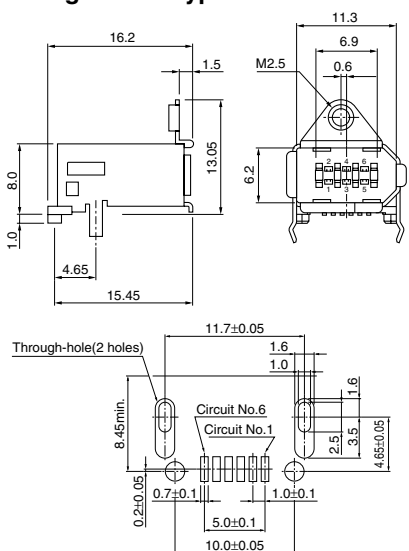
Model No.	Material and Finish	
MV-6S-S50SSN-A31	Contact	Copper alloy, overall nickel-undercoated, Mating part: gold-plated Solder tail: tin-plated (reflow treatment)
	Housing	Glass-filled PPS, UL94V-0
	Shell	Copper alloy, copper-undercoated, nickel-undercoated, tin/nickel alloy-plated
	Rear cover	Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Model No.	Material and Finish	
MV-6S-S50SSN-B31	Contact	Copper alloy, overall nickel-undercoated, Mating part: gold-plated Solder tail: tin-plated (reflow treatment)
	Housing	Glass-filled PPS, UL94V-0
	Shell	Copper alloy, copper-undercoated, nickel-undercoated, tin/nickel alloy-plated
	Rear cover	Copper alloy, copper-undercoated, tin-plated (reflow treatment)

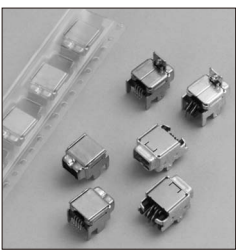
RoHS compliance This product displays (LF)(SN) on a label.

With upper flange <SMT type>



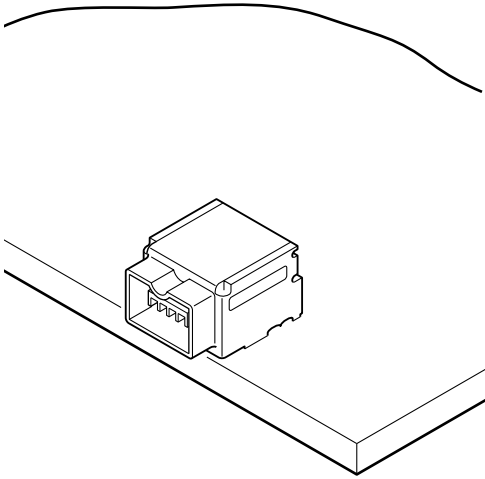
Model No.	Material and Finish	
MV-6S-S50SSN-C31	Contact	Copper alloy, overall nickel-undercoated, Mating part: gold-plated Solder tail: tin-plated (reflow treatment)
	Housing	Glass-filled PPS, UL94V-0
	Shell	Copper alloy, copper-undercoated, nickel-undercoated, tin/nickel alloy-plated
	Rear cover	Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.



RV CONNECTOR

High-speed serial interface connectors



Conforming to the IEEE 1394 standards (4P), the RV connector is a high-speed serial interface connector designed for use in PCs and consumer electronic equipment.

- A variety of receptacles are available
- Compact

Specifications

- Current rating: 0.3A AC, DC
- Voltage rating: 30V AC, DC
- Temperature range: -40°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/50m Ω max.
After environmental testing/30m Ω max.
(variation from initial value)
- Insulation resistance: 100M Ω min.
- Withstanding voltage: 100V AC/minute
- Applicable PC board thickness: 0.8 to 1.6mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

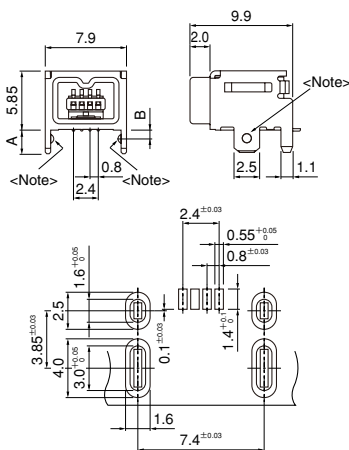
Standards

Recognized E60389

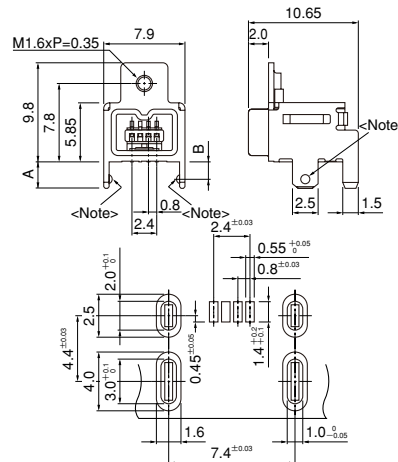
Certified LR20812

Receptacle

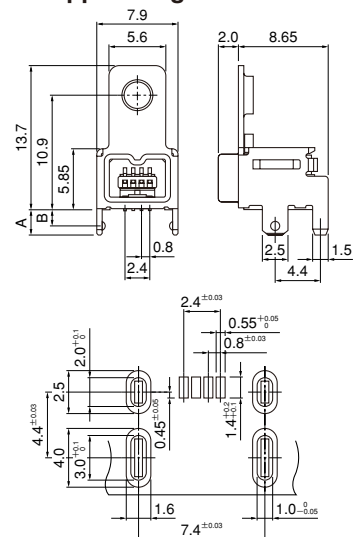
Normal <SMT type>



Normal <SMT type> with upper flange<M1.6>



Normal <SMT type> with upper flange<M3>



Model No.	Material and Finish
Supplied on embossed tape RV-SS4G-N-BM-TB	Housing PPS, UL94V-0
Supplied in tray RV-SS4G-N-B()	Contact Copper alloy, overall nickel-undercoated, Mating part: gold-plated Solder tail: tin-plated(reflow treatment)
	Shell cover Copper alloy, copper-undercoated, nickel-plated
	Shell Mild steel, nickel-undercoated, tin-plated

RoHS compliance This product displays (LF)(SN) on a label.
Note: Embossed-taping products have no dimple.

Type	Applicable PC board thickness (mm)	Dimensions (mm)	
		A	B
Normal type	0.8	2.15	0.8
	1.6	2.45	1.6

Model No.	Material and Finish
Supplied on embossed tape RV-SS4G-F16N-C-TB	Housing PPS, UL94V-0
Supplied in tray RV-SS4G-F16N-C()	Contact Copper alloy, overall nickel-undercoated, Mating part: gold-plated Solder tail: tin-plated(reflow treatment)
	Shell cover Copper alloy, copper-undercoated, nickel-plated
	Shell Mild steel, copper-undercoated, nickel-undercoated, tin/nickel alloy-plated

RoHS compliance This product displays (LF)(SN) on a label.
Note: Embossed-taping products have no dimple.

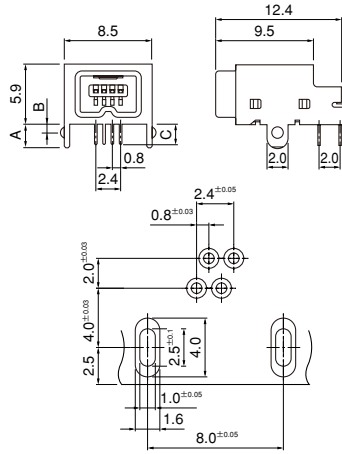
Note: 1. Receptacles are not UL/CSA approved.
2. Model No. : () denotes the applicable PC board thickness.
08 ... For 0.8mm thick PC board
16 ... For 1.6mm thick PC board

Model No.	Material and Finish
RV-SS4G-F30N-E ()	Housing PPS, UL94V-0
	Contact Copper alloy, overall nickel-undercoated, Mating part: gold-plated Solder tail: tin-plated(reflow treatment)
	Shell cover Copper alloy, copper-undercoated, nickel-plated
	Shell Mild steel, copper-undercoated, nickel-undercoated, tin/nickel alloy-plated

RoHS compliance This product displays (LF)(SN) on a label.

Receptacle

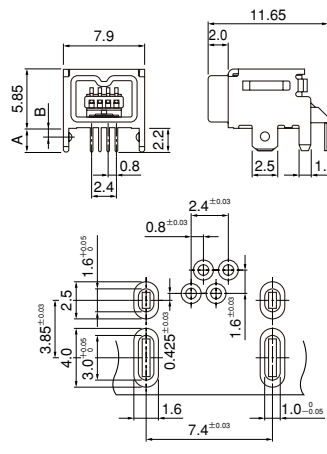
Reverse <Through-hole type>



Model No.	Material and Finish
RV-SS4D-R-A ()	Housing PBT, UL94V-0
	Contact Copper alloy, overall nickel-undercoated, Mating part: gold-plated Solder tail: tin-plated(reflow treatment)
	Shell cover Copper alloy, copper-undercoated, nickel-plated
	Shell Mild steel, nickel-undercoated, tin/copper alloy-plated

RoHS compliance This product displays (LF)(SN) on a label.

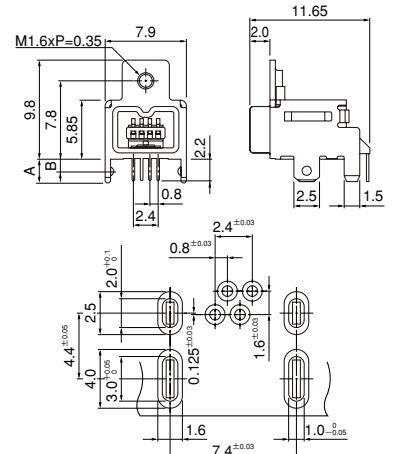
Normal <Through-hole type>



Model No.	Material and Finish
RV-SS4D-N-B ()	Housing PPS, UL94V-0
	Contact Copper alloy, overall nickel-undercoated, Mating part: gold-plated Solder tail: tin-plated(reflow treatment)
	Shell cover Copper alloy, copper-undercoated, nickel-plated
	Shell Mild steel, nickel-undercoated, tin/copper alloy-plated

RoHS compliance This product displays (LF)(SN) on a label.

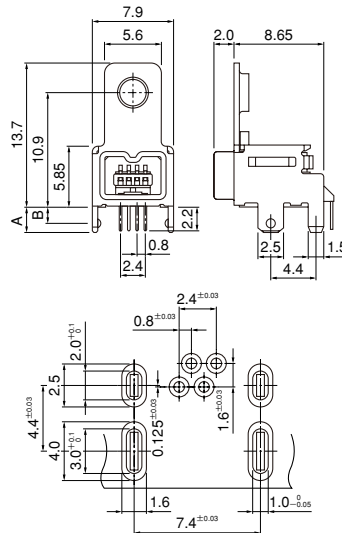
Normal <Through-hole type> with upper flange<M1.6>



Model No.	Material and Finish
RV-SS4D-F16N-C ()	Housing PPS, UL94V-0
	Contact Copper alloy, overall nickel-undercoated, Mating part: gold-plated Solder tail: tin-plated(reflow treatment)
	Shell cover Copper alloy, copper-undercoated, nickel-plated
	Shell Mild steel, nickel-undercoated, tin/copper alloy-plated

RoHS compliance This product displays (LF)(SN) on a label.

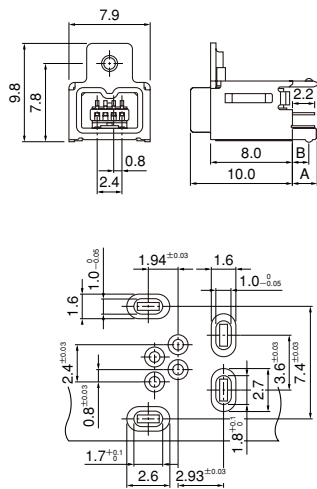
Normal <Through-hole type> with upper flange<M3>



Model No.	Material and Finish
RV-SS4D-F30N-E ()	Housing PPS, UL94V-0
	Contact Copper alloy, overall nickel-undercoated, Mating part: gold-plated Solder tail: tin-plated(reflow treatment)
	Shell cover Copper alloy, copper-undercoated, nickel-plated
	Shell Mild steel, nickel-undercoated, tin/copper alloy-plated

RoHS compliance This product displays (LF)(SN) on a label.

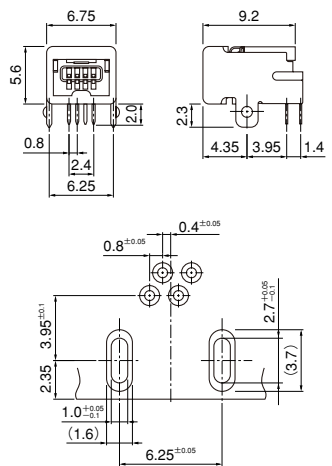
Top entry <Through-hole type> with flange<M1.6>



Model No.	Material and Finish
RV-ST4D-F16N-D ()	Housing PPS, UL94V-0
	Contact Copper alloy, overall nickel-undercoated, Mating part: gold-plated Solder tail: tin-plated(reflow treatment)
	Shell cover Copper alloy, copper-undercoated, nickel-plated
	Shell Mild steel, nickel-undercoated, tin/copper alloy-plated

RoHS compliance This product displays (LF)(SN) on a label.

Reverse <Through-hole type> Small type



Model No.	Material and Finish
RV-SS4D-RS-H08-1	Housing PA9T
	Contact Copper alloy, overall nickel-undercoated, Mating part: gold-plated Solder tail: tin-plated
	Shell cover Copper alloy, nickel-undercoated, tin-plated
	Shell Copper alloy, tin-plated(reflow treatment)

RoHS compliance This product displays (LF) on a label.

Type	Applicable PC board thickness (mm)	Dimensions (mm)		
		A	B	C
Normal type	0.8	2.15	0.8	-
	1.6	2.45	1.6	-
Reverse type	0.8	2.3	0.8	2.0
	1.6	3.1	1.6	2.8

Note: 1. Receptacles are not UL/CSA approved.

2. Model No. : () denotes the applicable PC board thickness.

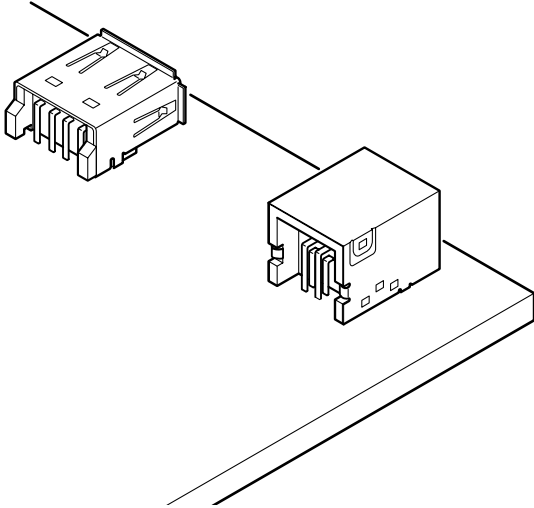
08 ... For 0.8mm thick PC board

16 ... For 1.6mm thick PC board



UB CONNECTOR

USB (Universal Serial Bus) Conforming Connector



- **Conforms to USB (Universal Serial Bus) 2.0 standards**
- **Secure EMI shielding effect**
- **SMT configuration**

Specifications

- Current rating: 1.0A AC, DC/ line
- Voltage rating: 30V AC, DC
- Temperature range: -55°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/30m Ω max.
After environmental testing/10m Ω max.
(variation from initial value)
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 750V AC/minute
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

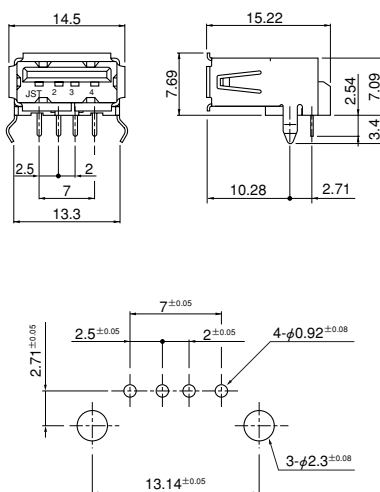
Recognized E60389

Certified LR20812

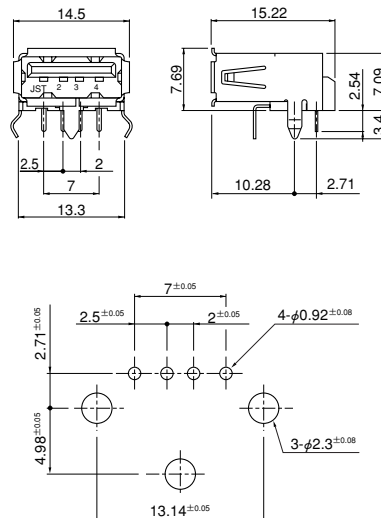
Receptacle

USB 2.0 certified product

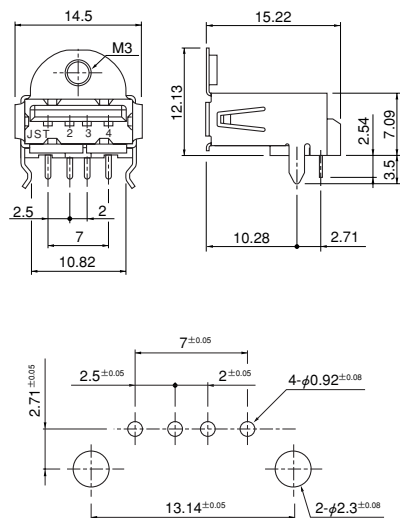
Type A <Through-hole type> Normal



Type A <Through-hole type> With solder tab



Type A <Through-hole type> With upper flange



Model No.	Material and Finish	Qty / box
UBA-4R-D14-4D	Contact	250
	Housing	
	Shell	

RoHS compliance This product displays (LF)(SN) on a label.

Model No.	Material and Finish	Qty / box
UBA-4R-D14T-4D	Contact	250
	Housing	
	Shell	
	Solder tab	

RoHS compliance This product displays (LF)(SN) on a label.

Model No.	Material and Finish	Qty / box
UBA-4R-D14C2-4D	Contact	250
	Housing	
	Shell	

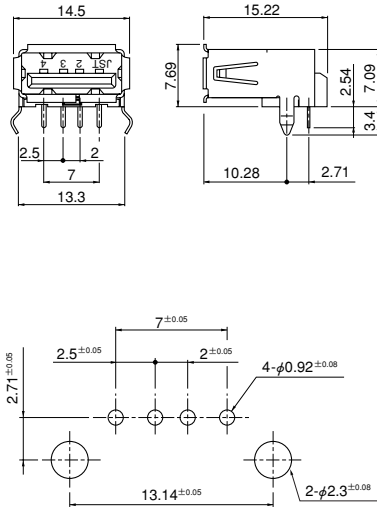
RoHS compliance This product displays (LF)(SN) on a label.

Note: The dimensions above should serve as a guideline. Contact JST for details.

Receptacle

USB 2.0 certified product

Type A <Through-hole type> Reverse

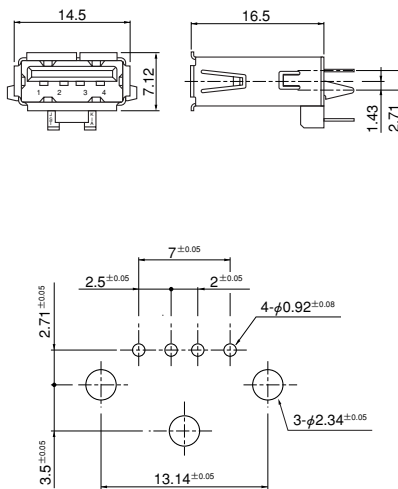


Model No.	Material and Finish	Qty / box
UBA-R4R-D14-4D	Contact	Copper alloy, nickel-undercoated, selective gold-plated
	Housing	Thermoplastic resin, UL94V-0
	Shell	Copper alloy, nickel-undercoated, tin-plated
		250

RoHS compliance This product displays (LF)(SN) on a label.

Note: The dimensions above should serve as a guideline. Contact JST for details.

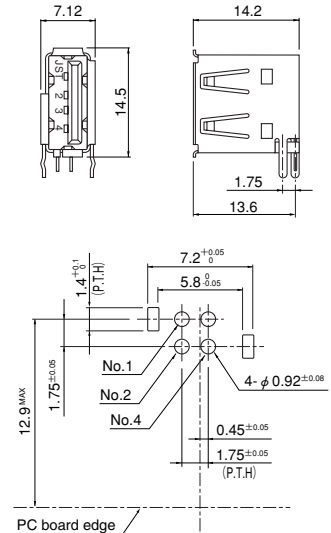
Type A <Through-hole type> Straight, normal



Model No.	Material and Finish	Qty / box
UBAS-4R-D14D-4D	Contact	Copper alloy, nickel-undercoated, selective gold-plated
	Housing	Thermoplastic resin, UL94V-0
	Shell	Copper alloy, nickel-undercoated, tin-plated
		250

RoHS compliance This product displays (LF)(SN) on a label.

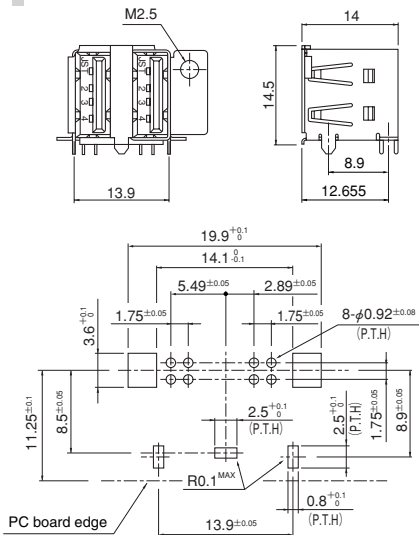
Type A <Through-hole type> Vertical, normal



Model No.	Material and Finish	Qty / box
UBAL-4R-D14-4S	Contact	Copper alloy, nickel-undercoated, selective gold-plated
	Housing	Thermoplastic resin, UL94V-0
	Shell	Copper alloy, nickel-undercoated, tin-plated
		350

RoHS compliance This product displays (LF)(SN) on a label.

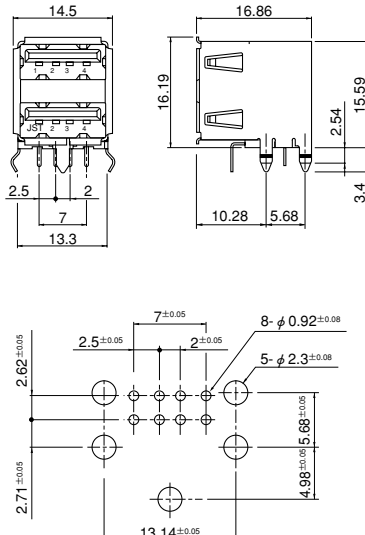
Type A <SMT/Through-hole type> Vertical, dual-row



Model No.	Material and Finish	Qty / box
UBAL-4RS-D14K-4S	Contact	Copper alloy, nickel-undercoated, selective gold-plated
	Housing	Thermoplastic resin, UL94V-0
	Shell A	Copper alloy, nickel-undercoated, tin-plated
	Shell B	Copper alloy, nickel-undercoated, tin-plated
		105

RoHS compliance This product displays (LF)(SN) on a label.

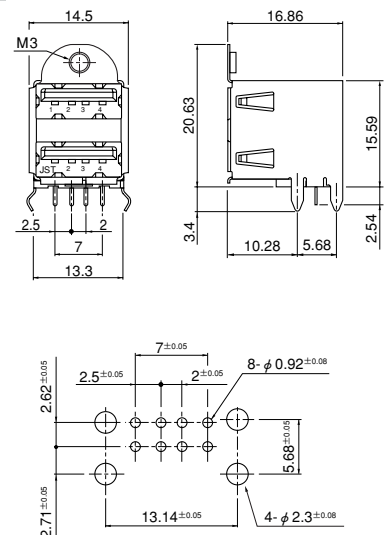
Type A <Through-hole type> Double-stack



Model No.	Material and Finish	Qty / box
UBA-4RS-D14T-4D	Contact	Copper alloy, nickel-undercoated, selective gold-plated
	Housing	Thermoplastic resin, UL94V-0
	Locator	Thermoplastic resin, UL94V-0
	Shell A	Copper alloy, nickel-undercoated, tin-plated
	Shell B	Copper alloy, nickel-undercoated, tin-plated
	Solder tab	Copper alloy, copper-undercoated, tin-plated (reflow treatment)
		210

RoHS compliance This product displays (LF)(SN) on a label.

Type A <Through-hole type> Double-stack with upper flange



Model No.	Material and Finish	Qty / box
UBA-4RS-D14C-4D	Contact	Copper alloy, nickel-undercoated, selective gold-plated
	Housing	Thermoplastic resin, UL94V-0
	Locator	Thermoplastic resin, UL94V-0
	Shell A	Copper alloy, nickel-undercoated, tin-plated
	Shell B	Copper alloy, nickel-undercoated, tin-plated
		210

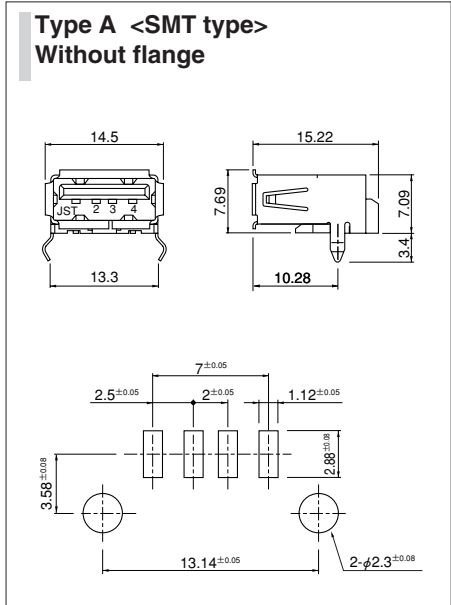
RoHS compliance This product displays (LF)(SN) on a label.

Note: The dimensions above should serve as a guideline. Contact JST for details.

UB CONNECTOR

Receptacle

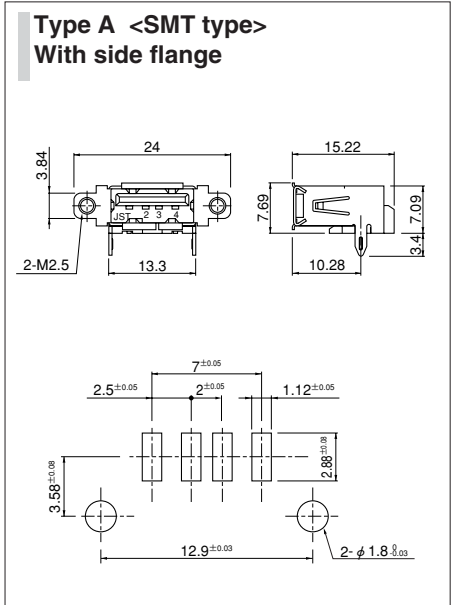
USB 2.0 certified product



Model No.	Material and Finish	Qty / box
UBA-4R-S14-4S	Contact	Copper alloy, nickel-undercoated, selective gold-plated
	Housing	Thermoplastic resin, UL94V-0
	Shell	Copper alloy, nickel-undercoated, tin-plated

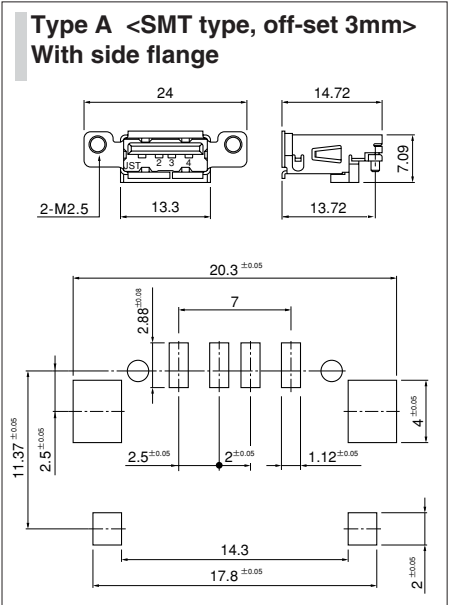
RoHS compliance This product displays (LF)(SN) on a label.

Note: The dimensions above should serve as a guideline. Contact JST for details.



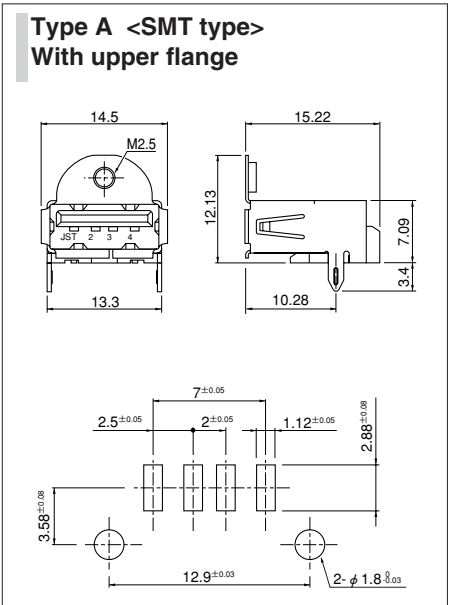
Model No.	Material and Finish	Qty / box
UBA-4R-S14A-4S	Contact	Copper alloy, nickel-undercoated, selective gold-plated
	Housing	Thermoplastic resin, UL94V-0
	Shell	Copper alloy, nickel-undercoated, tin-plated

RoHS compliance This product displays (LF)(SN) on a label.



Model No.	Material and Finish	Qty / box
UBA-4R-S14B-4S	Contact	Copper alloy, nickel-undercoated, selective gold-plated
	Housing	Thermoplastic resin, UL94V-0
	Shell	Copper alloy, nickel-undercoated, tin-plated

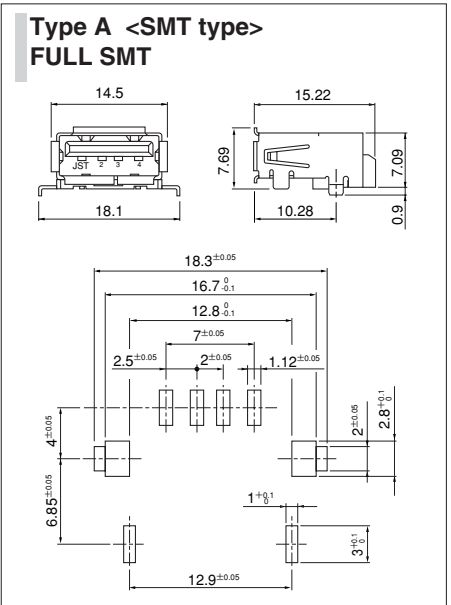
RoHS compliance This product displays (LF)(SN) on a label.



Model No.	Material and Finish	Qty / box
UBA-4R-S14C-4S	Contact	Copper alloy, nickel-undercoated, selective gold-plated
	Housing	Thermoplastic resin, UL94V-0
	Shell	Copper alloy, nickel-undercoated, tin-plated

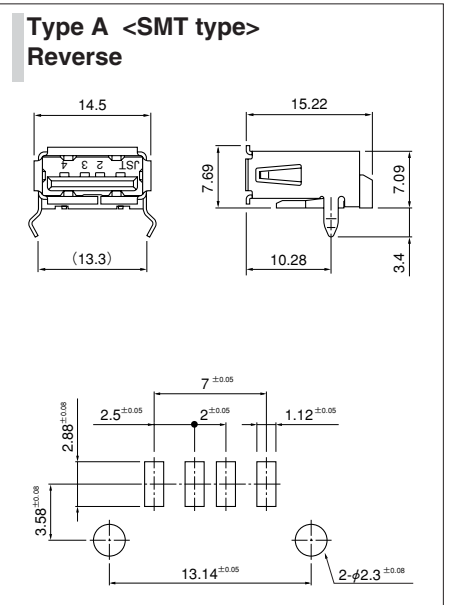
RoHS compliance This product displays (LF)(SN) on a label.

Note: The dimensions above should serve as a guideline. Contact JST for details.



Model No.	Material and Finish	Qty / box
UBA-4R-S14HD-4S	Contact	Copper alloy, nickel-undercoated, selective gold-plated
	Housing	Thermoplastic resin, UL94V-0
	Shell	Copper alloy, nickel-undercoated, tin-plated

RoHS compliance This product displays (LF)(SN) on a label.



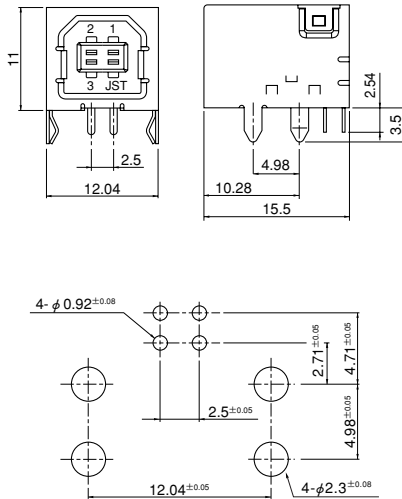
Model No.	Material and Finish	Qty / box
UBA-R4R-S14-4S	Contact	Copper alloy, nickel-undercoated, selective gold-plated
	Housing	Thermoplastic resin, UL94V-0
	Shell	Copper alloy, nickel-undercoated, tin-plated

RoHS compliance This product displays (LF)(SN) on a label.

Receptacle

USB 2.0 certified product

Type B <Through-hole type> With solder tab

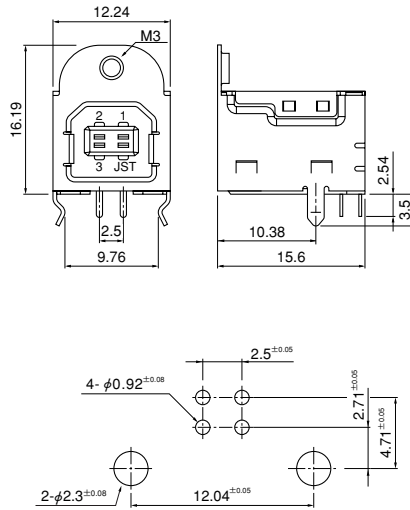


Model No.	Material and Finish	Qty / box
UBB-4R-D14T-4D	Contact	Copper alloy, nickel-undercoated, selective gold-plated
	Housing	Thermoplastic resin, UL94V-0
	Shell	Copper alloy, nickel-undercoated, tin-plated

RoHS compliance This product displays (LF)(SN) on a label.

Note: The dimensions above should serve as a guideline. Contact JST for details.

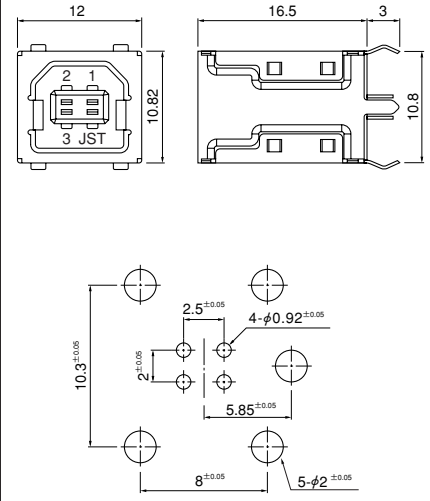
Type B <Through-hole type> With upper flange



Model No.	Material and Finish	Qty / box
UBB-4R-D14C-4D	Contact	Copper alloy, nickel-undercoated, selective gold-plated
	Housing	Thermoplastic resin, UL94V-0
	Shell	Copper alloy, nickel-undercoated, tin-plated

RoHS compliance This product displays (LF)(SN) on a label.

Type B <Through-hole type> Straight

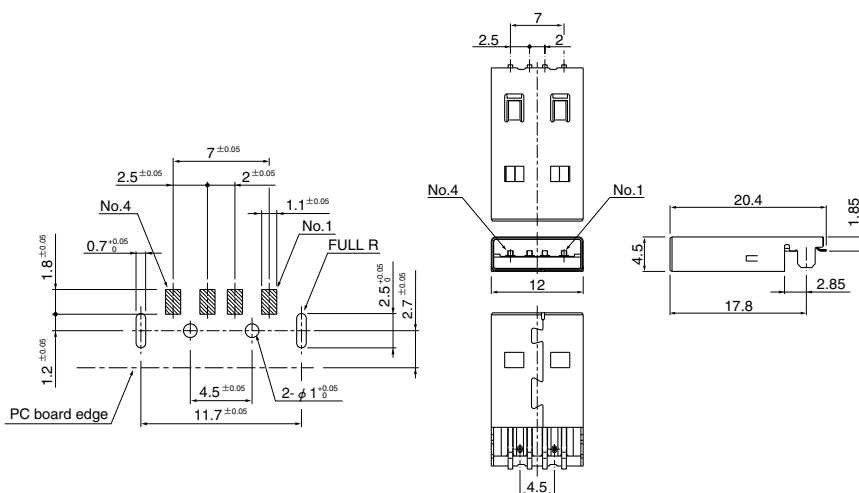


Model No.	Material and Finish	Qty / box
UBBS-4R-D14-4D	Contact	Copper alloy, nickel-undercoated, selective gold-plated
	Housing	Thermoplastic resin, UL94V-0
	Shell	Copper alloy, nickel-undercoated, tin-plated

RoHS compliance This product displays (LF)(SN) on a label.

Plug type A SMT type

USB 2.0 certified product



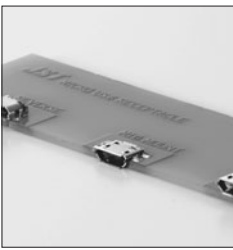
Model No.	Material and Finish	Qty / box
UBA-4P-S14E	Contact	Copper alloy, nickel-undercoated, selective gold-plated
	Housing	Heat resisting resin, UL94V-0
	Shell	Copper alloy, nickel-undercoated, palladium-plated

RoHS compliance This product displays (LF)(SN) on a label.

Note: 1. Not UL/CSA approved.

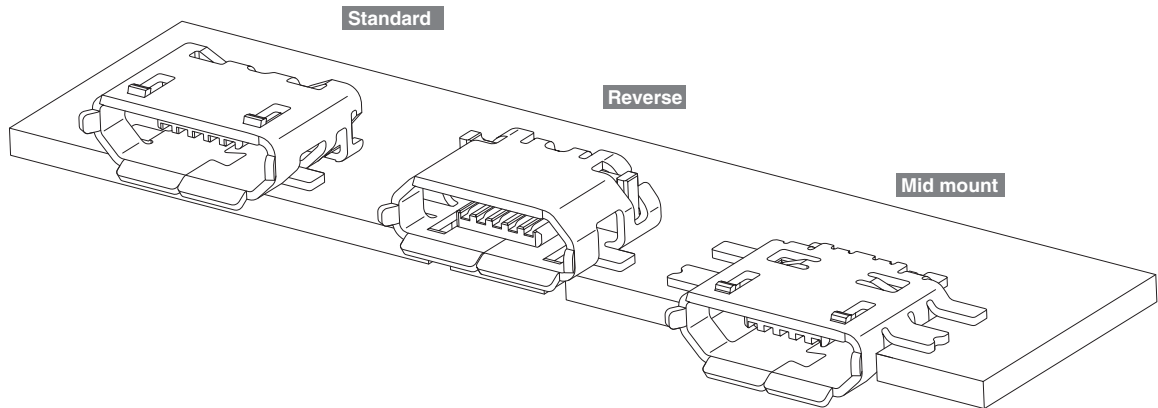
2. The dimensions left should serve as a guideline.

Contact JST for details.



UB CONNECTOR Micro USB

USB (Universal Serial bus) Conforming Connector



This connector is an interface connector for cellular phone and other mobile equipments conforming to Micro USB standard.

- ***It is a space saving design of about 50% reduction in mounting area compared with Mini USB. (Standard B type)***
- ***10,000 cycles of mating/unmating is guaranteed.***
- ***Variations***
- ***SMT configuration***

Specifications

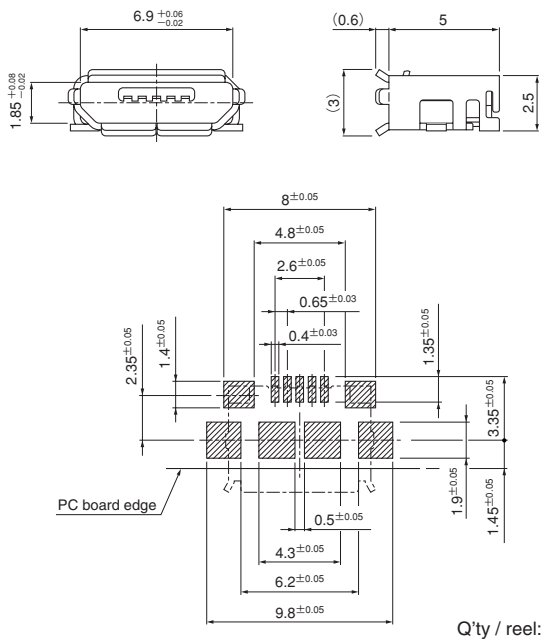
- Current rating: Only signal line
Signal line (No. 2 to 4-circuit): 1.0A AC, DC/Line
: Power supply line
Power supply line (No. 1, 5-circuit): 1.8A AC, DC/Line
Signal line (No. 2 to 4-circuit): 0.5A AC, DC/Line
- Voltage rating: 30V AC, DC
- Temperature range: -30°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/30mΩ max.
After environmental testing/10mΩ max.
(variation from initial value)
- Insulation resistance: 1,000MΩ min.
- Withstanding voltage: 100V AC/minute
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

UB CONNECTOR Micro USB

Receptacle

Standard B type

TID No.: 60001357



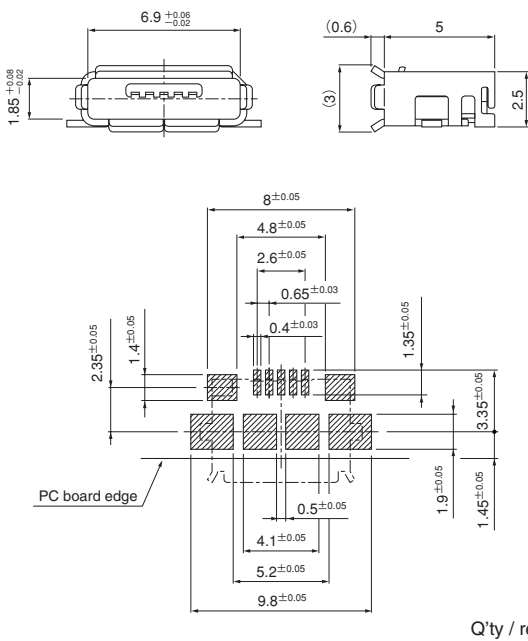
Q'ty / reel: 3,000

Model No.	Material and Finish
UB-MC5BR3-SD204-4S NMP	Contact: Copper alloy, nickel-undercoated, gold-plated Housing: Thermoplastic resin, UL94V-0, black Shell: Stainless, nickel-undercoated, tin-plated

RoHS compliance

Standard AB type

TID No.: 60001359



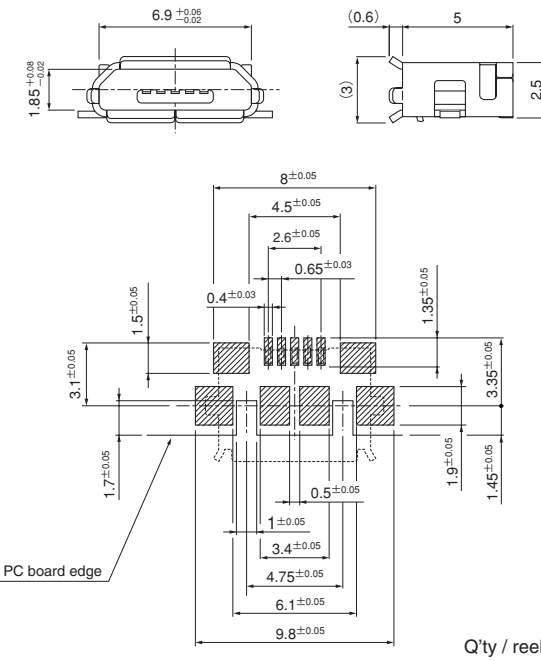
Q'ty / reel: 3,000

Model No.	Material and Finish
UB-MC5ABR3-SD204-4S NMP	Contact: Copper alloy, nickel-undercoated, gold-plated Housing: Thermoplastic resin, UL94V-0, gray Shell: Stainless, nickel-undercoated, tin-plated

RoHS compliance

Reverse B type

TID No.: 60001356



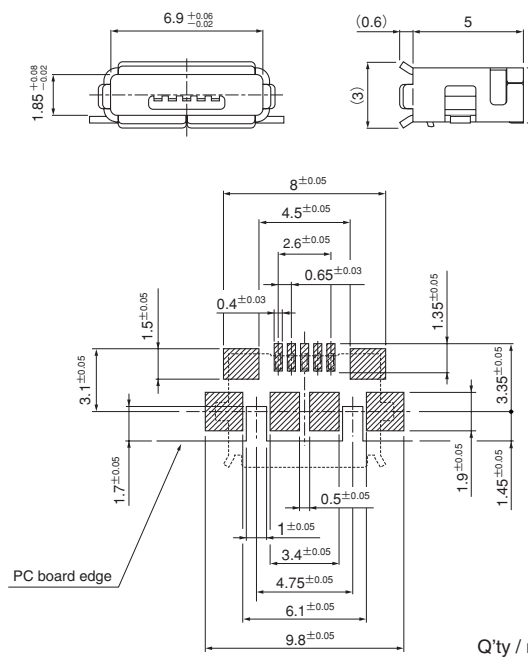
Q'ty / reel: 3,000

Model No.	Material and Finish
UB-MC5BR3-RS04-4S-1 NMP	Contact: Copper alloy, nickel-undercoated, gold-plated Housing: Thermoplastic resin, UL94V-0, black Shell: Stainless, nickel-undercoated, tin-plated

RoHS compliance

Reverse AB type

TID No.: 60001358



Q'ty / reel: 3,000

Model No.	Material and Finish
UB-MC5ABR3-RS04-4S-1 NMP	Contact: Copper alloy, nickel-undercoated, gold-plated Housing: Thermoplastic resin, UL94V-0, gray Shell: Stainless, nickel-undercoated, tin-plated

RoHS compliance

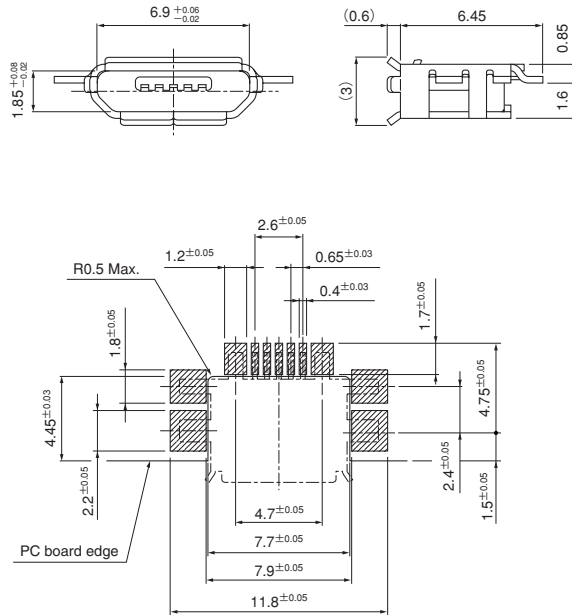
UB CONNECTOR Micro USB

Receptacle

Mid mount B type

Mounting height: 0.85mm

TID No.: 60001355



Q'ty / reel: 2,000

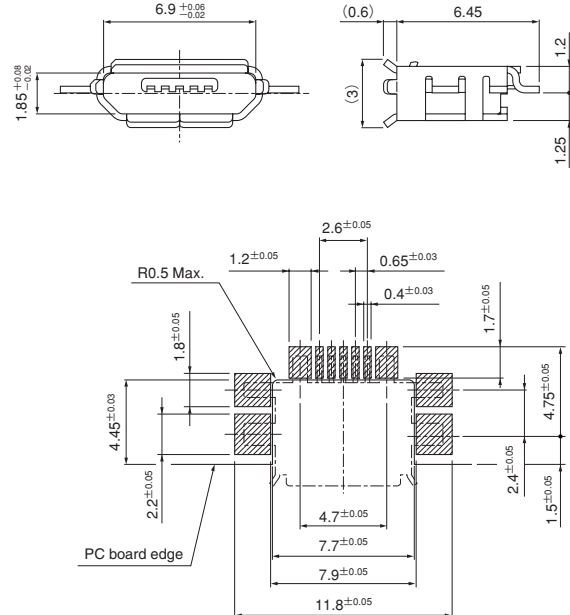
Model No.	Material and Finish
UB-MC5BR3-M04-4S NMP	Contact: Copper alloy, nickel-undercoated, gold-plated Housing: Thermoplastic resin, UL94V-0, black Shell: Stainless, nickel-undercoated, tin-plated

RoHS compliance

Mid mount B type

Mounting height: 1.2mm

TID No.: 62001355



Q'ty / reel: 2,000

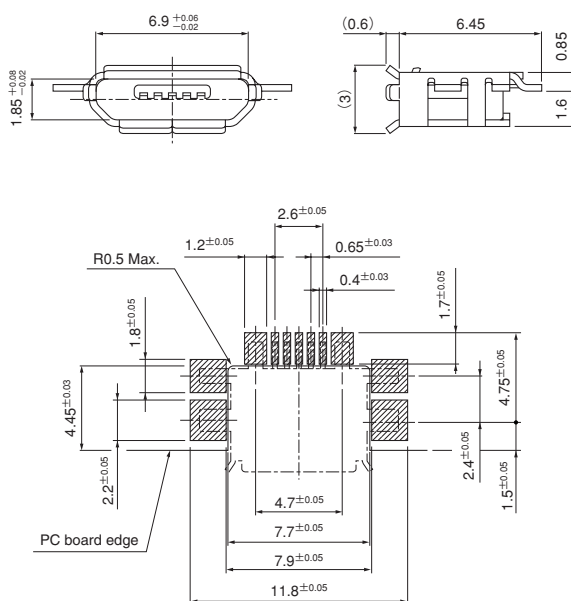
Model No.	Material and Finish
UB-MC5BR3-M404-4S NMP	Contact: Copper alloy, nickel-undercoated, gold-plated Housing: Thermoplastic resin, UL94V-0, black Shell: Stainless, nickel-undercoated, tin-plated

RoHS compliance

Mid mount AB type

Mounting height: 0.85mm

TID No.: 60001365



Q'ty / reel: 2,000

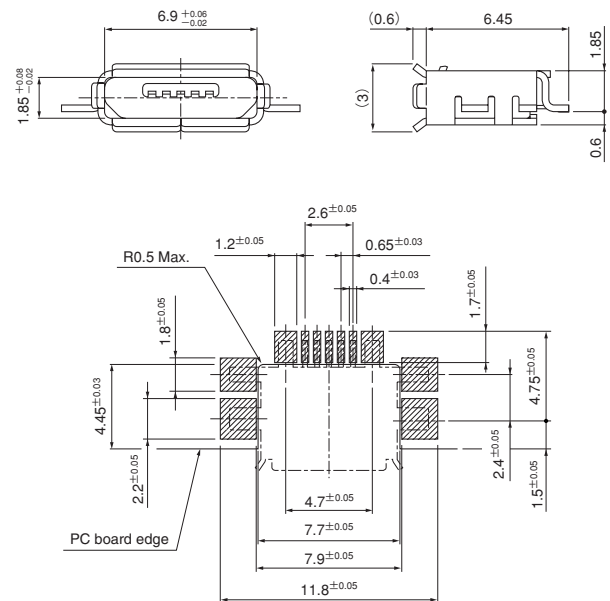
Model No.	Material and Finish
UB-MC5ABR3-M04-4S NMP	Contact: Copper alloy, nickel-undercoated, gold-plated Housing: Thermoplastic resin, UL94V-0, gray Shell: Stainless, nickel-undercoated, tin-plated

RoHS compliance

Mid mount AB type

Mounting height: 1.85mm

TID No.: 63001355



Q'ty / reel: 2,000

Model No.	Material and Finish
UB-MC5ABR3-M204-4S NMP	Contact: Copper alloy, nickel-undercoated, gold-plated Housing: Thermoplastic resin, UL94V-0, gray Shell: Stainless, nickel-undercoated, tin-plated

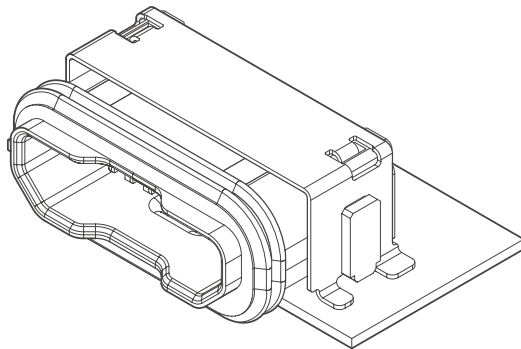
RoHS compliance



UB CONNECTOR Micro USB



USB (Universal Serial bus) Conforming Connector (Waterproof)



This connector is an interface connector for cellular phone and mobile equipment conforming to Micro USB (Universal Serial Bus) Standard that is grade 7 ingress protection of JIS C 0920 (IPX7 of IEC 60529).

***Grade 7 ingress protection of JIS C 0920 (IPX7 of IEC 60529) : Leave it to depths of 1 m for 30 minutes.**

- **Waterproof performance**
- **10,000 cycles of mating/unmating is provided.**
- **Strong structure which welded to caulking part by laser welding**
- **SMT configuration**

Specifications

- Current rating
 - : Only signal line
 - Signal line (No.2 to 4-circuit): 1.0 A AC, DC/Line
 - : Power supply line
 - Power supply line (No.1, 5-circuit): 1.8 A AC, DC/Line
 - Signal line (No.2 to 4-circuit): 0.5 A AC, DC/Line
- Voltage rating: 30 V AC, DC
- Temperature range: -30°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 30 mΩ max.
After environmental tests/ 50 mΩ max.
- Insulation resistance: 1,000 MΩ min.
- Withstanding voltage: 100 VAC/minute

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

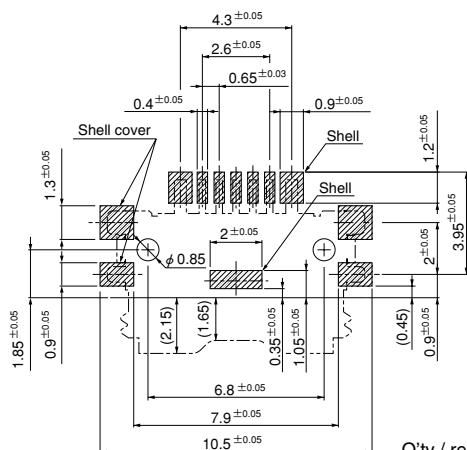
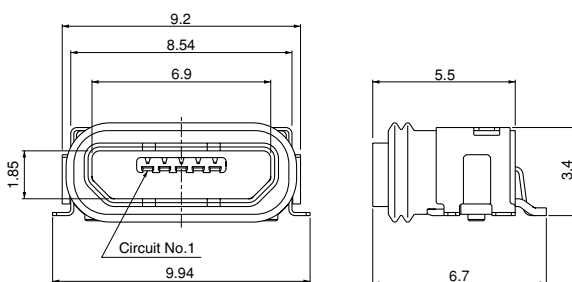
* Contact JST for details.

* Compliant with RoHS.

Receptacle

Standard B Type

TID No.: 60002098



Q'ty / reel: 1,500 pcs.

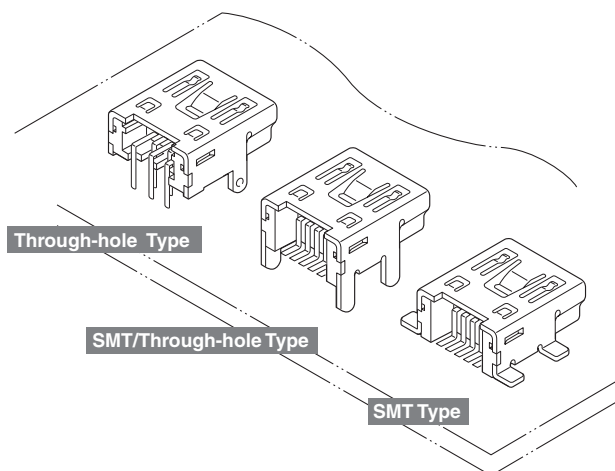
Model No.	Material and Finish
UB-MC5BR3-SDWP604-4S	Contact: Copper alloy, nickel-undercoated, gold-plated
	Housing: Heat resisting resin, UL94V-0, black
	Shell: SUS, nickel-undercoated, tin-plated
	Shell cover: Copper alloy, nickel-undercoated, tin-plated
	Cap: Heat resisting resin, UL94V-0, black
	Outer seal: Silicon rubber, black
	Sealant: Cured resin

RoHS compliance



UB CONNECTOR mini-B Type

USB (Universal Serial Bus) Conforming Connector



The USB 2.0 certified receptacle is quite suitable for the interface of the small and miniaturized PC-peripheral products as Digital Cameras and MP3 Players.

- ***Space saving design***
- ***Shielding and higher reliability of connection***
- ***Excellent insertion and withdrawal forces***
- ***Variations***

Specifications

- Current rating: 1.0A AC, DC
 - Voltage rating: 30V AC, DC
 - Temperature range: -55°C to +85°C
(including temperature rise in applying electrical current)
 - Contact resistance: Initial value/50m Ω max.
After environmental testing/50m Ω max.
 - Insulation resistance: 1,000M Ω min.
 - Withstanding voltage: 100V AC/minute
 - Applicable wire: Mating with USB 2.0 certified mini-B plug
 - Applicable PC board thickness: Through-hole/1.0mm
SMT-through-hole/
1.0 to 1.2mm
- * Compliant with RoHS.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

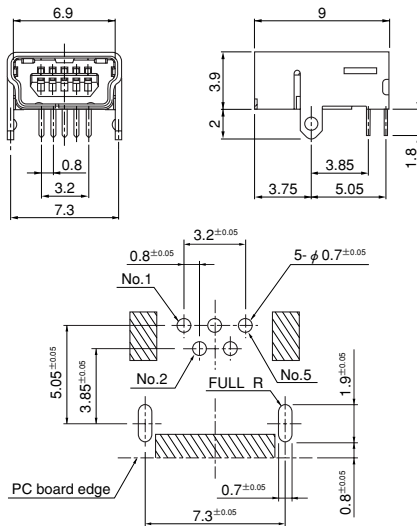
Recognized E60389

UB CONNECTOR mini-B Type

Receptacle

USB 2.0 certified product

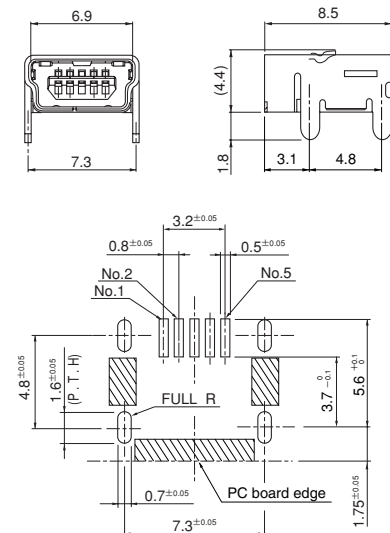
Through-hole/Through-hole



Model No.	Material and Finish		Q'ty/box
UB-M5BR-DM14-4D	Contact	Copper alloy, nickel-undercoated, selective gold-plated	400
	Housing	Thermoplastic resin, UL94V-0	
	Shell	Copper alloy, nickel-undercoated, tin-plated	

RoHS compliance This product displays (LF)(SN) on a label.

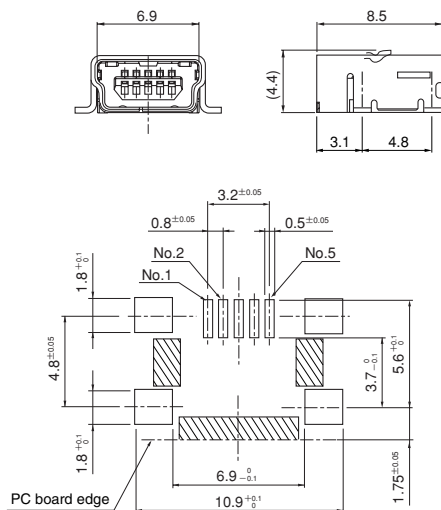
Through-hole/SMT



Model No.	Material and Finish		Q'ty/box
UB-M5BR-S14-4S	Contact	Copper alloy, nickel-undercoated, selective gold-plated	840
	Housing	Heat resisting resin, UL94V-0	
	Shell	Copper alloy, nickel-undercoated, tin-plated	

RoHS compliance This product displays (LF)(SN) on a label.

SMT/SMT



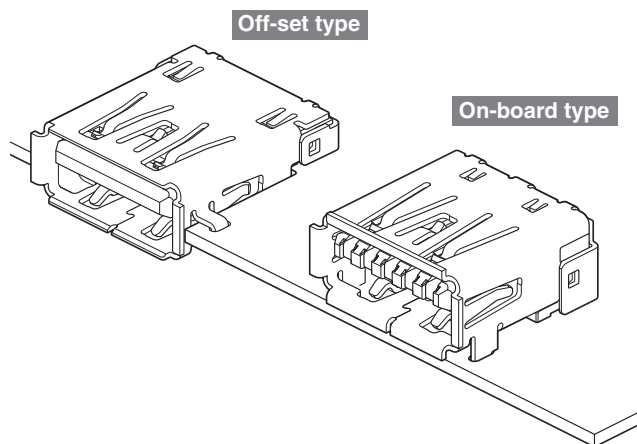
Model No.	Material and Finish		Q'ty/box
UB-M5BR-G14-4S	Contact	Copper alloy, nickel-undercoated, selective gold-plated	840
	Housing	Heat resisting resin, UL94V-0	
	Shell	Copper alloy, nickel-undercoated, tin-plated	

RoHS compliance This product displays (LF)(SN) on a label.



UB3 CONNECTOR

USB (Universal Serial Bus) Conforming Connector



This connector is an interface connector conforming to USB (Universal Serial Bus) 3.0 Standard.

- Shell strong structure
- Reverse of side spring
- Halogen-free

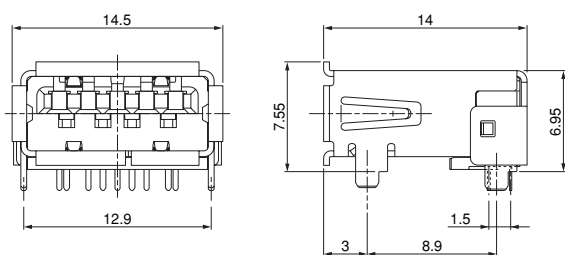
Specifications

- Current rating: VBUS & GND circuits (No.1 & 4 circuits)
/ 1.8A AC, DC
Other circuits (No. 2, 3, 5 to 9 circuits)
/ 0.25A AC, DC
 - Voltage rating: 30V AC, DC
 - Temperature rang: -25°C to +85°C
(including temperature rise in applying electrical current)
 - Contact resistance: Initial value/30m Ω max.
After environmental testing/ 10m Ω max.
(variation from initial value)
 - Insulation resistance: 100M Ω min.
 - Withstanding voltage: 100V AC/minute
 - Applicable PC board: Double-sided through-hole PCB
(Unusable one-side PCB)
t1.0mm
- * Compliant with RoHS.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Receptacle

Type A Normal On-board type

TID No. : 360000071



Q'ty / box: 2,618

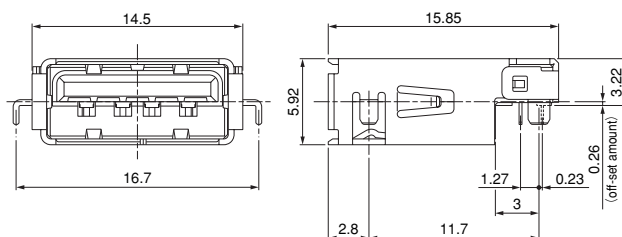
Model No.	Material and Finish
UB3A-9R-D6C-112(HF)	Contact A, B: Copper alloy, nickel-undercoated, selective palladium-plated, gold-plated Housing: Heat resisting resin, UL94V-0, blue Shell: Stainless steel, nickel-undercoated, tin-plated

RoHS compliance

Note: The dimensions above should serve as a guideline. Contact JST for details.

Type A Normal Off-set type

TID No. : 360000070

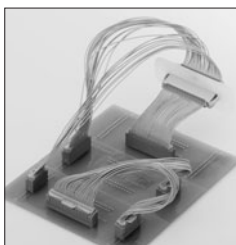


Q'ty / box: 2,280

Model No.	Material and Finish
UB3A-9R-D6C-333(HF)	Contact A, B: Copper alloy, nickel-undercoated, selective palladium-plated, gold-plated Housing: Heat resisting resin, UL94V-0, blue Shell: Stainless steel, nickel-undercoated, tin-plated

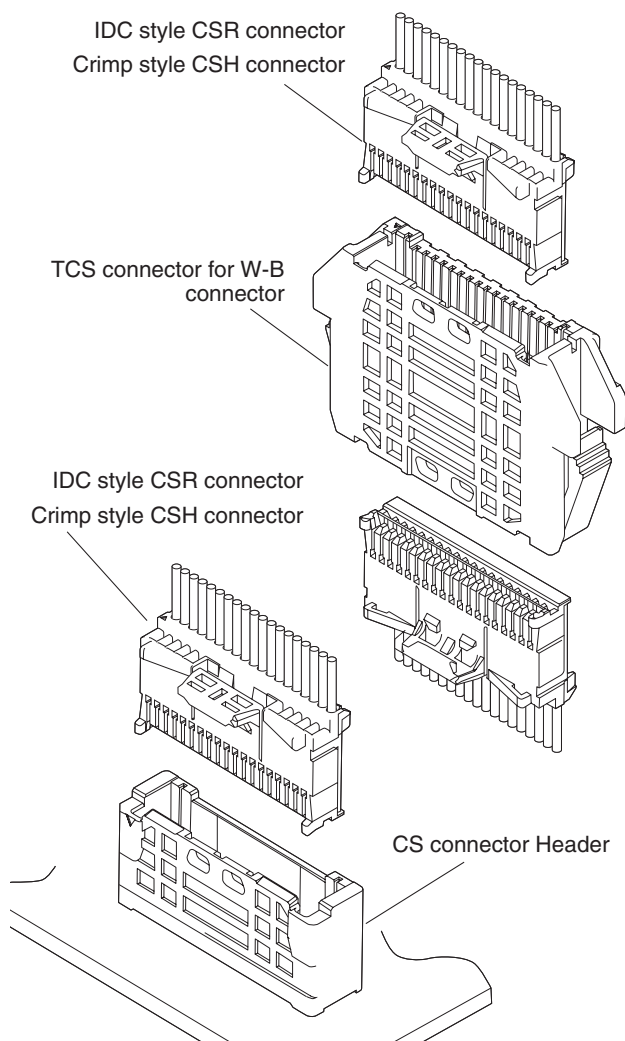
RoHS compliance

Note: The dimensions above should serve as a guideline. Contact JST for details.



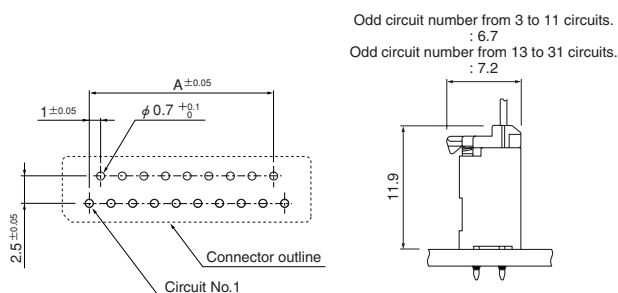
CS FAMILY SERIES / CSR·CSH·CS·TCS CONNECTOR

1.0mm pitch/Disconnectable Insulation displacement and Crimp style connectors



This is a 1.0mm pitch insulation displacement connector with the secure locking structure to prevent coming off the connector and incomplete mating. 1.8A in rated current was realized by using AWG#27. The various wide usage can be provided, since multi-IDC-harnesses by automatic IDC machine, crimping type, and header for wire to wire connection are available.

CS connector



Note: 1. The above figure is the figure viewed from the connector mounting side.
2. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
3. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

CS connector

- **Secure locking structure**
- **Realization of multi-circuits by low insertion force**
- **Countermeasure for unexpected prying insertion**

CSH connector

- **Housing lances**
- **Interchangeability**
- **Realized current rating of 2A with AWG#26**

TCS connector

- **Secure locking structure**
- **Countermeasure for unexpected prying insertion**

Standards

Recognized E60389

Certified LR20812

Specifications

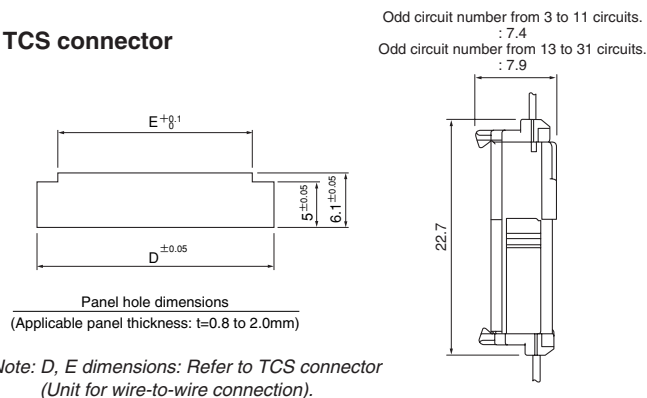
	CSR · CS connector	CSH · CS connector	TCS connector
Current rating	1.8A (AWG #27)	2A (AWG #26)	
Voltage rating	50V AC · DC		
Temperature rise	-25°C to +85°C (including temperature rise)		
Contact resistance	Initial value / 15mΩ max. After environmental testing / 30mΩ max.		Initial value / 25mΩ max. After environmental testing / 50mΩ max.
Insulation resistance	500MΩ min.		
Withstanding voltage	500V AC/minute		
Applicable wire	UL11079, UL3619, UL3855, UL11030 AWG#27·#28 Conductor / 7-strands, tincoated annealed copper Insulation O.D. / 0.65 to 0.73mm (Contact JST for details.)	AWG#30 to #26 Insulation O.D. / 0.6 to 0.8mm	
Applicable PC board thickness	1.6mm	1.6mm	—
Applicable panel thickness	—	—	0.8 to 2.0mm

* Compliant with RoHS.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

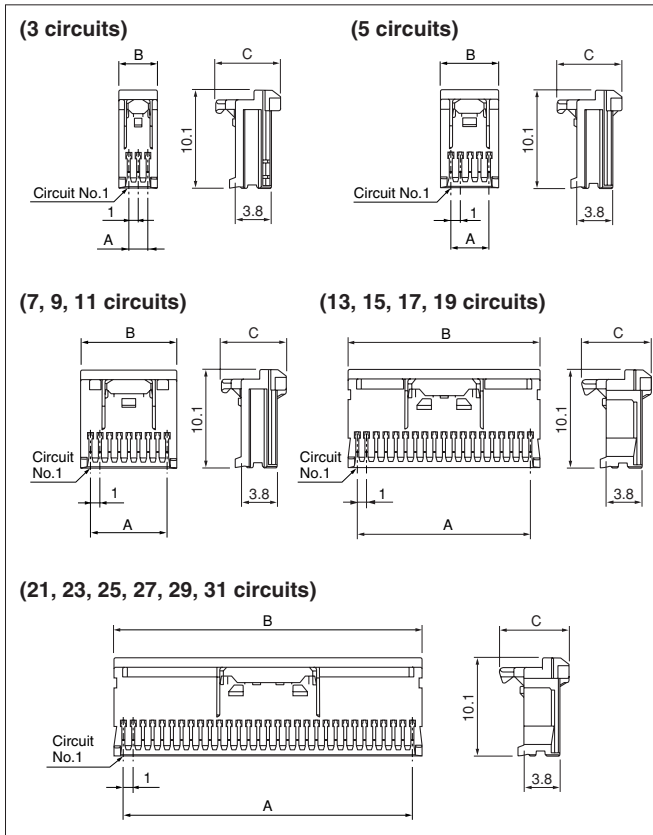
TCS connector



Note: D, E dimensions: Refer to TCS connector (Unit for wire-to-wire connection).

CS FAMILY SERIES / CSR·CSH·CS·TCS CONNECTOR

CSR connector socket



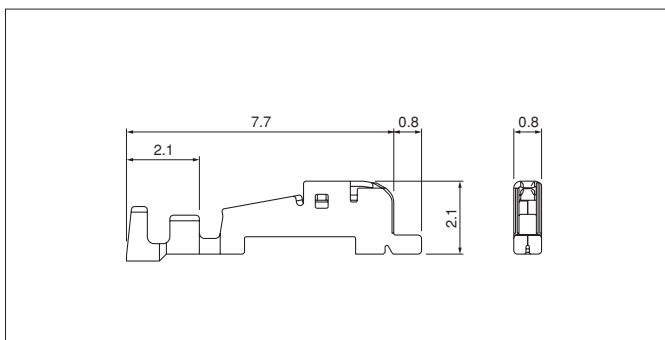
Circuits	Model No.	Dimensions (mm)			Q'ty / box
		A	B	C	
3	03CSR-8PK	2.0	4.0	6.7	13,500
5	05CSR-8PK	4.0	6.0		9,000
7	07CSR-8PK	6.0	8.0		6,660
9	09CSR-8PK	8.0	10.0		5,400
11	11CSR-8PK	10.0	12.0		4,500
13	13CSR-8PK	12.0	14.0	7.2	3,780
15	15CSR-8PK	14.0	16.0		3,240
17	17CSR-8PK	16.0	18.0		2,880
19	19CSR-8PK	18.0	20.0		2,700
21	21CSR-8PK	20.0	22.0		2,340
23	23CSR-8PK	22.0	24.0		2,160
25	25CSR-8PK	24.0	26.0		1,980
27	27CSR-8PK	26.0	28.0		1,800
29	29CSR-8PK	28.0	30.0		1,800
31	31CSR-8PK	30.0	32.0		1,620

Material and Finish

Contact: Copper alloy, tin-plated
Housing: PBT, UL94V-0, pink

RoHS compliance

CSH connector contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SCSH-002T-P0.2N	0.05 to 0.13	30 to 26	0.6 to 0.8	12,000

Material and Finish

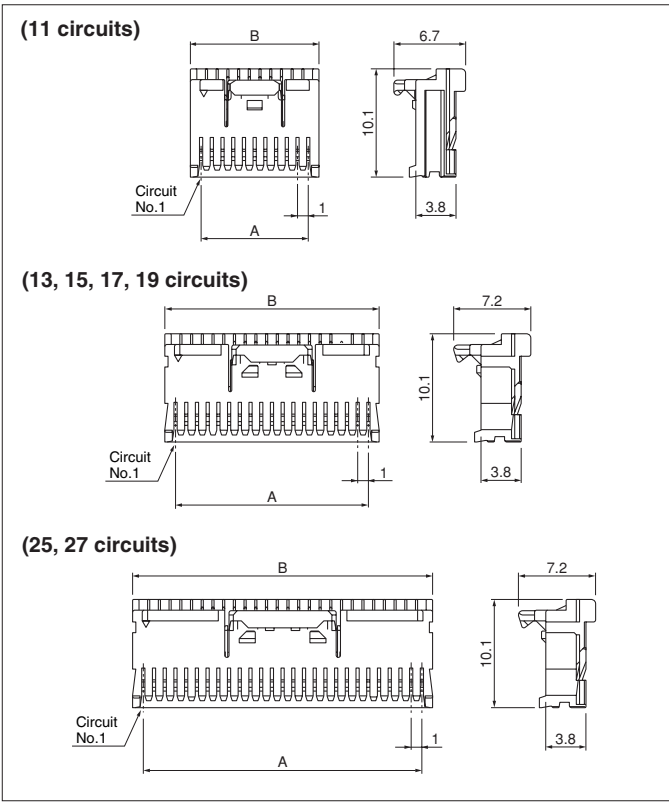
Copper alloy, tin-plated

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SCSH-002T-P0.2N	AP-K2N	MKS-L-10-3	MK/SCSH-002-02	APLMK SCSH002-02
		—	—	—

CS FAMILY SERIES / CSR·CSH·CS·TCS CONNECTOR

CSH connector housing

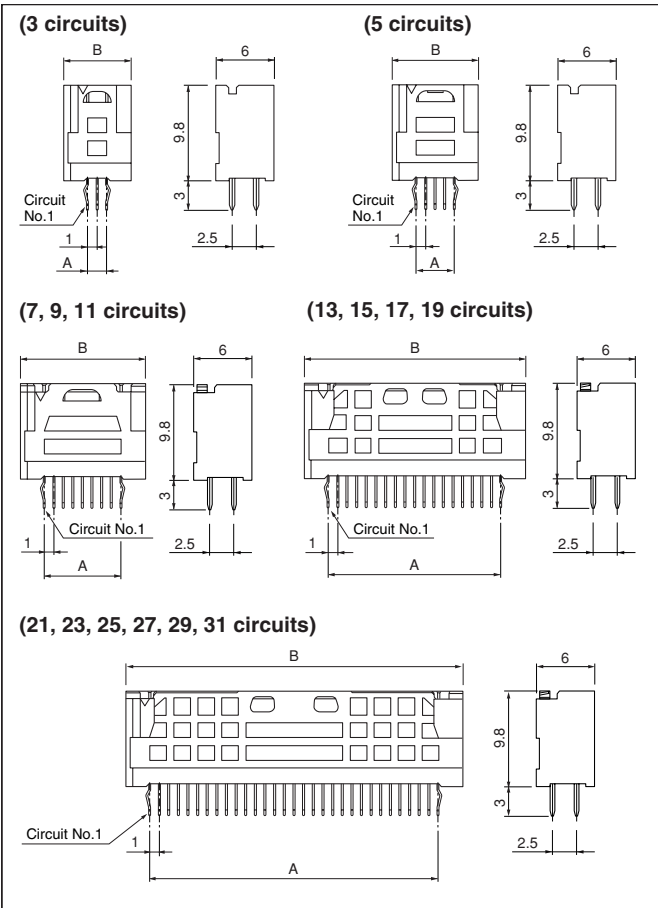


Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
11	CSH-11-PK-N	10.0	12.0	1,000
13	CSH-13-PK-N	12.0	14.0	1,000
15	CSH-15-PK-N	14.0	16.0	1,000
17	CSH-17-PK-N	16.0	18.0	500
19	CSH-19-PK-N	18.0	20.0	500
25	CSH-25-PK-N	24.0	26.0	500
27	CSH-27-PK-N	26.0	28.0	500

Material	
Housing: PBT, UL94V-0, pink	

RoHS compliance

CS connector through-hole type shrouded header



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
3	B03B-CSRK	2.0	7.0	10,800
5	B05B-CSRK	4.0	9.0	7,920
7	B07B-CSRK	6.0	11.0	6,480
9	B09B-CSRK	8.0	13.0	5,520
11	B11B-CSRK	10.0	15.0	4,800
13	B13B-CSRK	12.0	17.0	4,080
15	B15B-CSRK	14.0	19.0	3,600
17	B17B-CSRK	16.0	21.0	3,360
19	B19B-CSRK	18.0	23.0	3,120
21	B21B-CSRK	20.0	25.0	2,880
23	B23B-CSRK	22.0	27.0	2,640
25	B25B-CSRK	24.0	29.0	2,400
27	B27B-CSRK	26.0	31.0	2,160
29	B29B-CSRK	28.0	33.0	2,160
31	B31B-CSRK	30.0	35.0	1,920

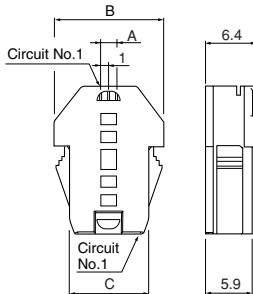
Material and Finish	
Housing: Glass-filled PA 66, UL94V-0, red	
Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)	

RoHS compliance This product displays (LF)(SN) on a label.

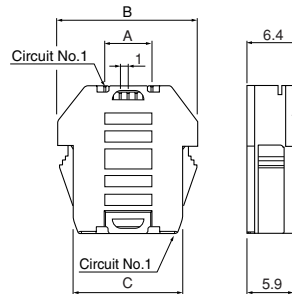
CS FAMILY SERIES / CSR·CSH·CS·TCS CONNECTOR

TCS connector (Unit for wire-to-wire connection)

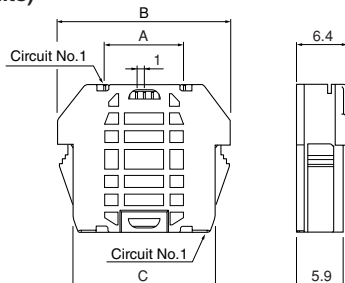
(3 circuits)



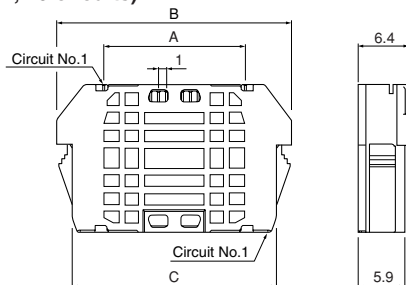
(5, 7 circuits)



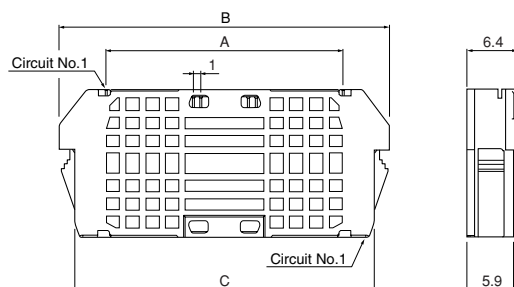
(9, 11 circuits)



(13, 15, 17, 19 circuits)



(21, 23, 25, 27, 29, 31 circuits)



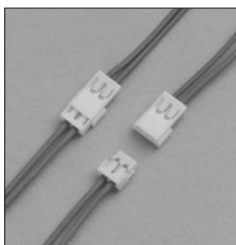
Circuits	Model No.	Dimensions (mm)						Q'ty / box
		A	B	C	D		E	
3	BU03P-TCS-LE	2.0	13.8	10.0	10.7	11.0	6.2	300
5	BU05P-TCS-LE	4.0	15.8	12.0	12.7	13.0	8.2	250
7	BU07P-TCS-LE	6.0	17.8	14.0	14.7	15.0	10.2	250
9	BU09P-TCS-LE	8.0	19.8	16.0	16.7	17.0	12.2	250
11	BU11P-TCS-LE	10.0	21.8	18.0	18.7	19.0	14.2	200
13	BU13P-TCS-LE	12.0	23.8	20.0	20.7	21.0	16.2	200
15	BU15P-TCS-LE	14.0	25.8	22.0	22.7	23.0	18.2	150
17	BU17P-TCS-LE	16.0	27.8	24.0	24.7	25.0	20.2	150
19	BU19P-TCS-LE	18.0	29.8	26.0	26.7	27.0	22.2	150
21	BU21P-TCS-LE	20.0	31.8	28.0	28.7	29.0	24.2	100
23	BU23P-TCS-LE	22.0	33.8	30.0	30.7	31.0	26.2	100
25	BU25P-TCS-LE	24.0	35.8	32.0	32.7	33.0	28.2	100
27	BU27P-TCS-LE	26.0	37.8	34.0	34.7	35.0	30.2	100
29	BU29P-TCS-LE	28.0	39.8	36.0	36.7	37.0	32.2	100
31	BU31P-TCS-LE	30.0	41.8	38.0	38.7	39.0	34.2	100

Material and Finish

Housing: PBT, UL94V-0, light blue

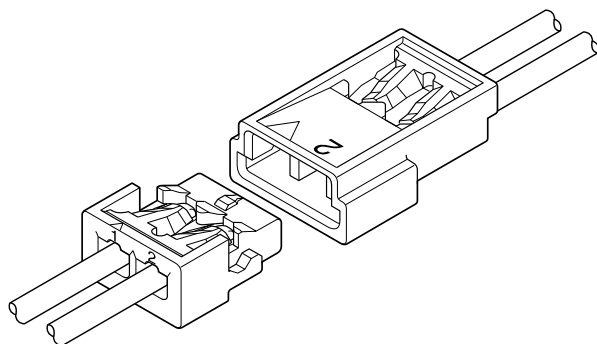
Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.



ACH CONNECTOR

1.2mm pitch/Disconnectable Crimp style Wire-to-wire connectors



This is the wire-to-wire connector for DC power supply compatible with the ACH connector for PC board.

- **Connector for DC power supply**
- **Common use with the existing socket contact of ACH connector**

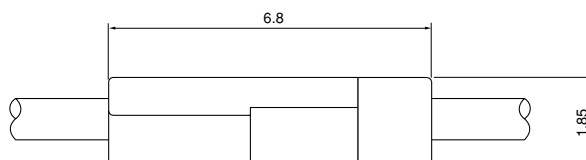
Specifications

- Current rating: 2A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 10m Ω max.
After environmental testing/ 20m Ω max.
- Insulation resistance: 100M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable wire: Conductor size/ AWG #30 to #28
Insulation O.D./ 0.5 to 0.63mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

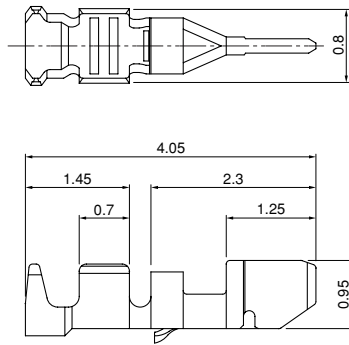
 Recognized E60389

 Certified LR20812

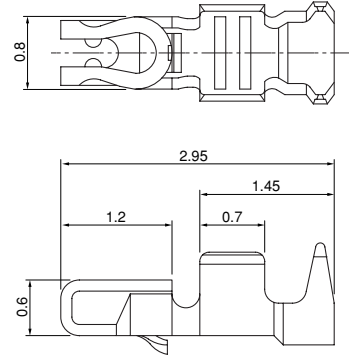


Contact

Plug contact



Socket contact



Model No.		Applicable wire		Insulation O.D. (mm)	Q'ty / reel
Plug contact	Socket contact	mm ²	AWG #		
SACHP-003G-P0.2	SACH-003G-P0.2	0.05~0.08	30~28	0.5~0.63	30,000

Material and Finish

Copper alloy, nickel-undercoated, gold-plated

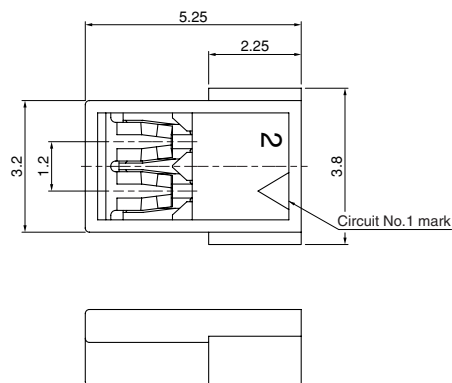
RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SACHP-003G-P0.2	AP-K2N	MKS-L-10-3	MK/SACHP-003-02	APLMK SACHP003-02
		—	—	—

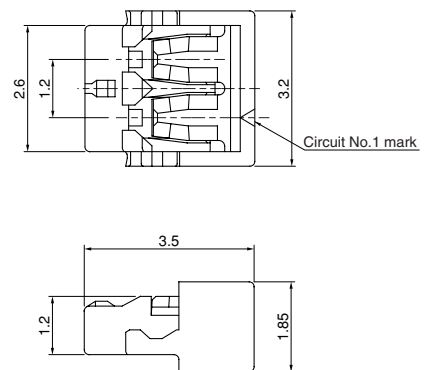
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SACH-003G-P0.2	AP-K2N	MKS-L-10-3	MK/SACH-003-02	APLMK SACH003-02
		—	—	—

Housing

Plug housing



Socket housing

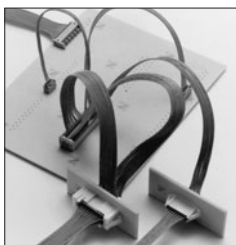


Model No.		Q'ty / box
Plug housing	Socket housing	
ACHTP-02V-S	ACHTR-02V-S	1,000

Material

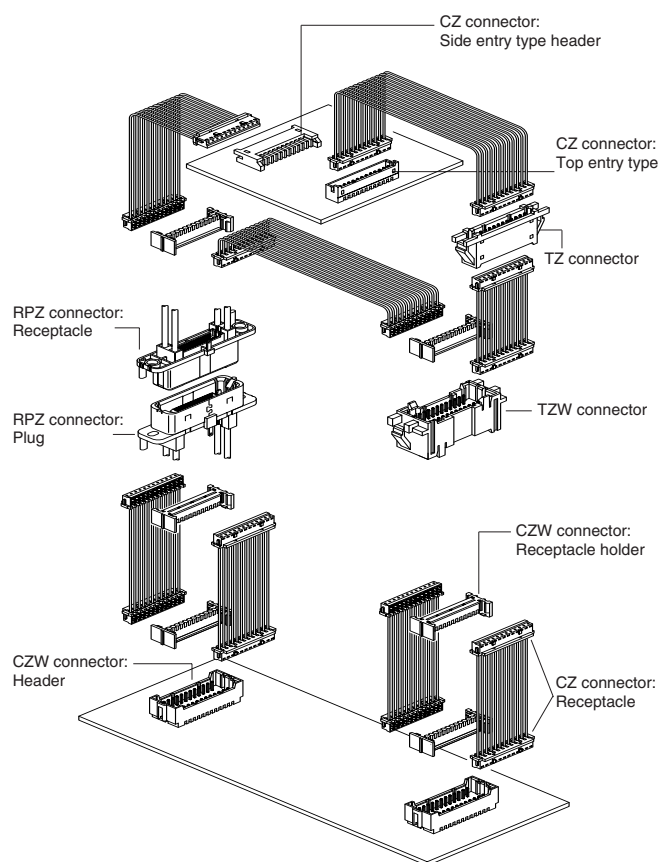
PBT, UL94V-0, natural (white)

RoHS compliance



CZ FAMILY SERIES/CZ·CZW·CZH·CZHW·TZ·TZW

1.5mm pitch/Disconnectable Insulation displacement connectors



※ CZ connector used for the harness shown in the above-mentioned figure can be replaced to CZH connector.

Based upon the 1.5mm pitch CZ connectors, the CZ family connectors have been expanded to meet the requirements of high density packaging. The CZW connector holder allows dual-row wire-to-board connection using the CZ receptacles, while the TZ (single-row) or TZW (dual-row) allows wire-to-wire connection, also using the CZ receptacles.

CZ connector

- Distortion resistant construction
- Compact and low profile

CZW connector

- Low insertion force
- Locking construction

CZH connector

- Housing lance
- Interchangeability

TZ/TZW connector

- The TZ connector is applicable to single-row connection, while the TZW connector is for dual-row connection.
- Applicable to wide range of panel thickness
- The design of the panel lock part does not allow the wires to be caught there before mounting on the panel.

Standards

Recognized E60389

Certified LR20812

Specifications

Item	Series	CZ·CZW connector	CZH·CZHW connector	TZ·TZW connector
Current rating		2A	AC, DC (AWG #26)	
Voltage rating		100V	AC, DC	
Temperature rise		-25°C to +85°C (including temperature rise)		
Contact resistance		Initial value / 10m Ω max. After environmental testing / 20m Ω max.		Initial value / 20m Ω max. After environmental testing / 40m Ω max.
Insulation resistance		500M Ω min		
Withstanding voltage		500V AC/minute		
Applicable wire		UL10272 (Contact JST for other UL style wires.) AWG#28, #26 Conductor / 7-strands, tinned annealed copper Insulation O.D. / 0.7 to 0.83mm	AWG#28 to #26	—
Applicable PC board thickness		1.6mm		—
Applicable panel thickness		—		0.5 to 2mm

* Compliant with RoHS.

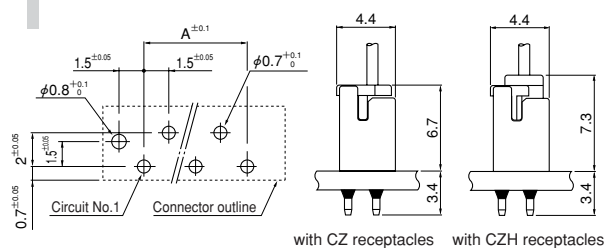
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

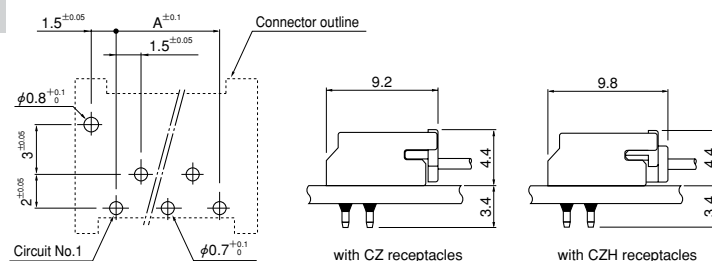
PC board layout (viewed from component side) and Assembly layout

<CZ connector through-hole type>

Top entry type



Side entry type

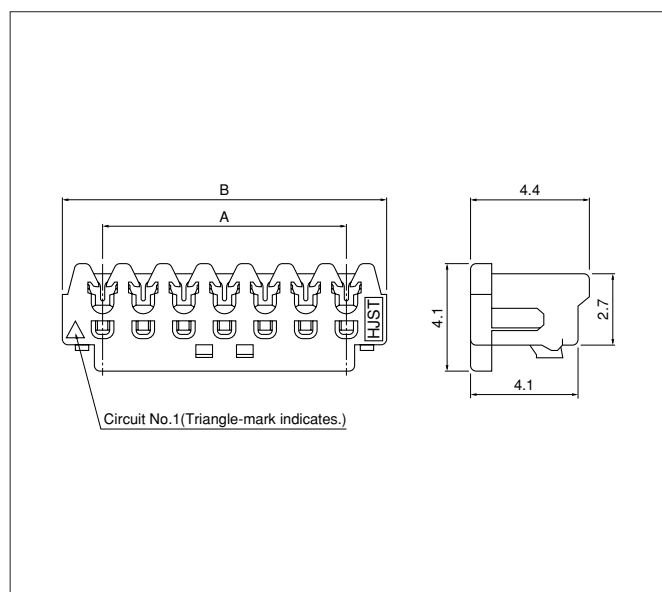


Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

CZ FAMILY SERIES / CZ · CZW · CZH · CZHW · TZ · TZW

CZ connector receptacle



Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Gray	Yellow	A	B	
2	02CZ-6H	02CZ-6Y	1.5	4.5	2,000
3	03CZ-6H	03CZ-6Y	3.0	6.0	2,000
4	04CZ-6H	04CZ-6Y	4.5	7.5	2,000
5	05CZ-6H	05CZ-6Y	6.0	9.0	2,000
6	06CZ-6H	06CZ-6Y	7.5	10.5	2,000
7	07CZ-6H	07CZ-6Y	9.0	12.0	2,000
8	08CZ-6H	08CZ-6Y	10.5	13.5	2,000
9	09CZ-6H	09CZ-6Y	12.0	15.0	1,000
10	10CZ-6H	10CZ-6Y	13.5	16.5	1,000
11	11CZ-6H	11CZ-6Y	15.0	18.0	1,000
12	12CZ-6H	12CZ-6Y	16.5	19.5	1,000
13	13CZ-6H	13CZ-6Y	18.0	21.0	1,000
14	14CZ-6H	14CZ-6Y	19.5	22.5	1,000
15	15CZ-6H	15CZ-6Y	21.0	24.0	1,000
16	16CZ-6H	16CZ-6Y	22.5	25.5	1,000
17	17CZ-6H	17CZ-6Y	24.0	27.0	1,000
18	18CZ-6H	18CZ-6Y	25.5	28.5	1,000
19	19CZ-6H	19CZ-6Y	27.0	30.0	1,000
20	20CZ-6H	20CZ-6Y	28.5	31.5	1,000

Material and Finish

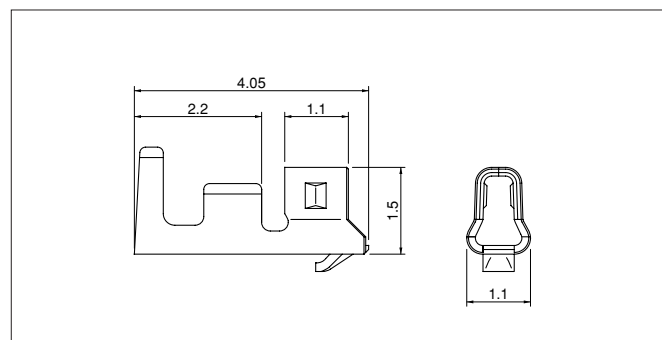
Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: Glass-filled PA 66, UL94V-0

RoHS compliance

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **02CZ-6H**
Y...yellow H...natural (grayish color)

CZH connector contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm²	AWG #		
SCZH-002T-P0.5	0.08~0.13	28~26	0.8~1.1	13,000

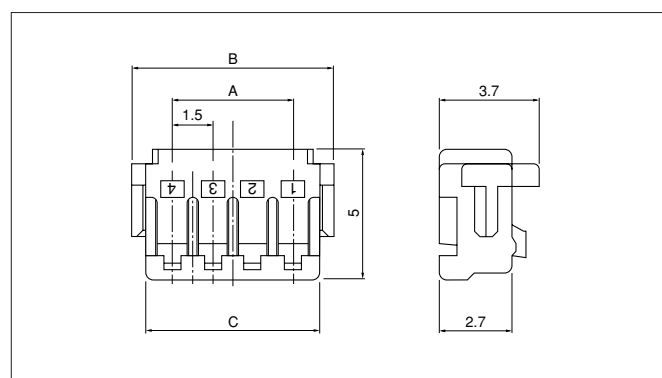
Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SCZH-002T-P0.5	AP-K2N	MKS-L	MK/SCZH-002-05	APLMK SCZH002-05
		—	—	—

CZH connector housing



RoHS compliance

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **CZHR-02V-S**
S...natural (white)
K...black H...gray Y...yellow

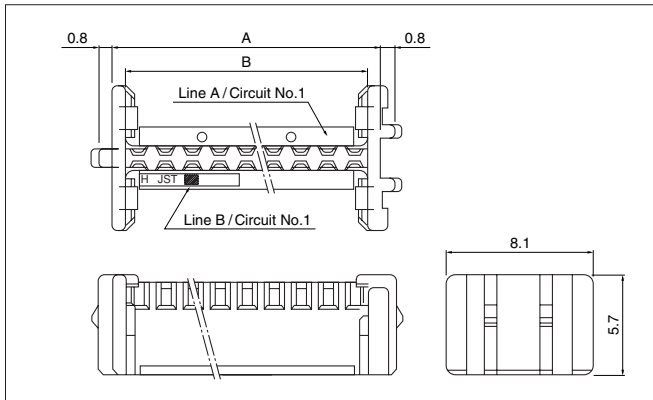
Circuits	Model No.	Dimensions (mm)			Q'ty / box
		A	B	C	
2	CZHR-02V-S	1.5	4.5	3.5	1,000
3	CZHR-03V-S	3.0	6.0	5.0	1,000
4	CZHR-04V-S	4.5	7.5	6.5	1,000
5	CZHR-05V-S	6.0	9.0	8.0	1,000
6	CZHR-06V-S	7.5	10.5	9.5	1,000
7	CZHR-07V-S	9.0	12.0	11.0	1,000
8	CZHR-08V-S	10.5	13.5	12.5	1,000
9	CZHR-09V-S	12.0	15.0	14.0	1,000
10	CZHR-10V-S	13.5	16.5	15.5	1,000
11	CZHR-11V-S	15.0	18.0	17.0	1,000
12	CZHR-12V-S	16.5	19.5	18.5	1,000
13	CZHR-13V-S	18.0	21.0	20.0	1,000
14	CZHR-14V-S	19.5	22.5	21.5	1,000
15	CZHR-15V-S	21.0	24.0	23.0	1,000
16	CZHR-16V-S	22.5	25.5	24.5	1,000
17	CZHR-17V-S	24.0	27.0	26.0	1,000
19	CZHR-19V-S	27.0	30.0	29.0	1,000
20	CZHR-20V-S	28.5	31.5	30.5	1,000

Material

PBT, UL94V-0, natural (white)

CZ FAMILY SERIES / CZ · CZW · CZH · CZHW · TZ · TZW

CZW connector holder



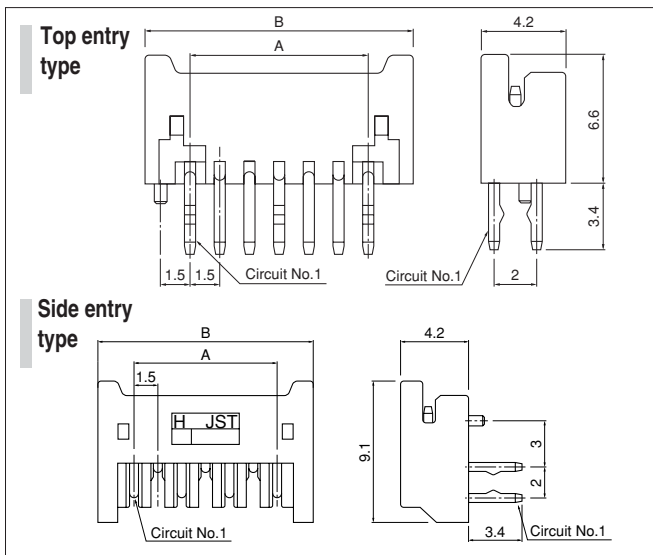
Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
16	CZWH-16-S	14.9	13.5	1,000
18	CZWH-18-S	16.4	15.0	1,000
20	CZWH-20-S	17.9	16.5	1,000
22	CZWH-22-S	19.4	18.0	1,000
24	CZWH-24-S	20.9	19.5	1,000
26	CZWH-26-S	22.4	21.0	1,000
28	CZWH-28-S	23.9	22.5	1,000
30	CZWH-30-S	25.4	24.0	1,000
32	CZWH-32-S	26.9	25.5	1,000
34	CZWH-34-S	28.4	27.0	1,000
36	CZWH-36-S	29.9	28.5	1,000
38	CZWH-38-S	31.4	30.0	1,000
40	CZWH-40-S	32.9	31.5	1,000

Material

PBT, UL94V-0, natural (white)

RoHS compliance

CZ connector through-hole type shrouded header



<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **B02B-CZHK-B-1** H...natural (grayish color) Y...yellow K...black

Circuits	Model No.		Dimensions (mm)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
2	B02B-CZHK-B-1	S02B-CZHK-B-1	1.5	6.0	2,072	1,480
3	B03B-CZHK-B-1	S03B-CZHK-B-1	3.0	7.5	1,624	1,160
4	B04B-CZHK-B-1	S04B-CZHK-B-1	4.5	9.0	1,344	960
5	B05B-CZHK-B-1	S05B-CZHK-B-1	6.0	10.5	1,176	840
6	B06B-CZHK-B-1	S06B-CZHK-B-1	7.5	12.0	1,008	720
7	B07B-CZHK-B-1	S07B-CZHK-B-1	9.0	13.5	896	640
8	B08B-CZHK-B-1	S08B-CZHK-B-1	10.5	15.0	784	560
9	B09B-CZHK-B-1	S09B-CZHK-B-1	12.0	16.5	728	520
10	B10B-CZHK-B-1	S10B-CZHK-B-1	13.5	18.0	672	480
11	B11B-CZHK-B-1	S11B-CZHK-B-1	15.0	19.5	616	440
12	B12B-CZHK-B-1	S12B-CZHK-B-1	16.5	21.0	560	400
13	B13B-CZHK-B-1	S13B-CZHK-B-1	18.0	22.5	504	360
14	B14B-CZHK-B-1	S14B-CZHK-B-1	19.5	24.0	504	360
15	B15B-CZHK-B-1	S15B-CZHK-B-1	21.0	25.5	448	320
16	B16B-CZHK-B-1	S16B-CZHK-B-1	22.5	27.0	448	320
17	B17B-CZHK-B-1	S17B-CZHK-B-1	24.0	28.5	392	280
18	B18B-CZHK-B-1	S18B-CZHK-B-1	25.5	30.0	392	280
19	B19B-CZHK-B-1	S19B-CZHK-B-1	27.0	31.5	392	280
20	B20B-CZHK-B-1	S20B-CZHK-B-1	28.5	33.0	336	240

Material and Finish

Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

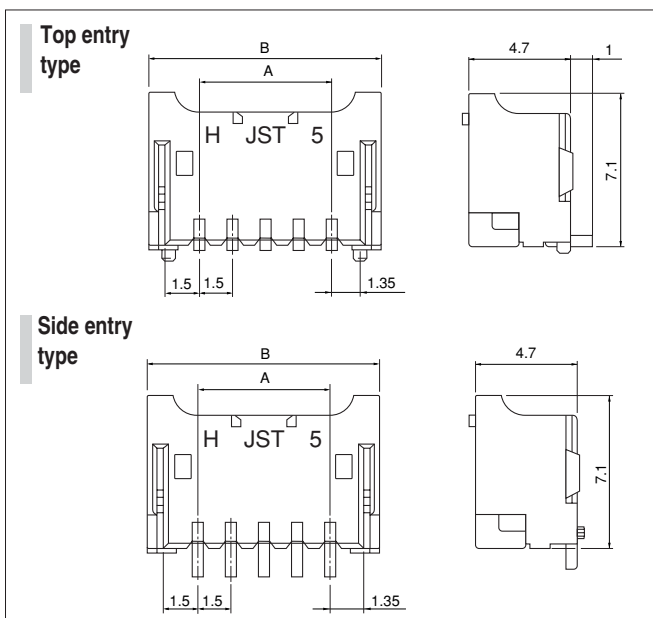
Wafer: Glass-filled PA 66, UL94V-0, natural (grayish color)

Note: Models B()B-CZHK-B are the headers without the boss.

Note: Models S()B-CZHK-B are the headers without the boss.

RoHS compliance This product displays (LF)(SN) on a label.

CZ connector SMT type shrouded header



Circuits	Model No.		Dimensions (mm)		Q'ty / reel	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
2	BM02B-CZSS-1-TF	SM02B-CZSS-1-TB	1.5	6.0	800	1,250
4	BM04B-CZSS-1-TF	SM04B-CZSS-1-TB	4.5	9.0	800	1,250
5	BM05B-CZSS-1-TF	SM05B-CZSS-1-TB	6.0	10.5	800	1,250
6	BM06B-CZSS-1-TF	—	7.5	12.0	800	—
8	BM08B-CZSS-1-TF	—	10.5	15.0	800	—
10	BM10B-CZSS-1-TF	SM10B-CZSS-1-TB	13.5	18.0	800	1,250
13	BM13B-CZSS-1-TF	SM13B-CZSS-1-TB	18.0	22.5	800	1,250
14	BM14B-CZSS-1-TF	—	19.5	24.0	800	—
15	BM15B-CZSS-1-TF	—	21.0	25.5	800	—
16	BM16B-CZSS-1-TF	SM16B-CZSS-1-TB	22.5	27.0	800	1,250
17	BM17B-CZSS-1-TF	—	24.0	28.5	800	—
20	BM20B-CZSS-1-TF	—	28.5	33.0	800	—

Material and Finish

Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Wafer: PA, UL94V-0, natural (ivory)

Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Note: Models BM()B-CZSS-TF are the headers without the boss.

Note: Models SM()B-CZSS-TB are the headers without the boss.

RoHS compliance This product displays (LF)(SN) on a label.

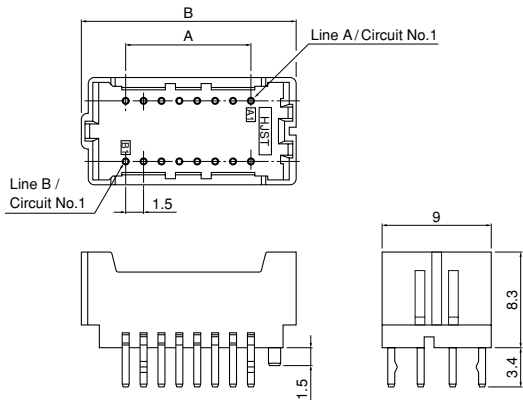
<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **B02B-CZSS-1-TF** S...natural (ivory) H...gray

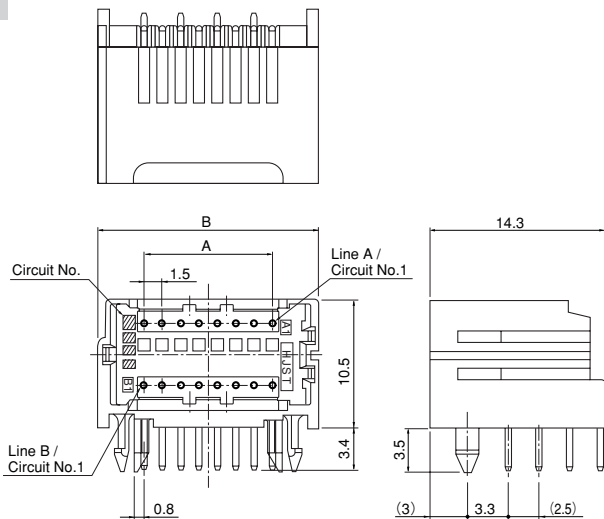
CZ FAMILY SERIES / CZ・CZW・CZH・CZHW・TZ・TZW

CZW connector through-hole type shrouded header

Top entry type



Side entry type



Circuits	Model No.		Dimensions (mm)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
16	B16B-CZWHK-B-1	—	10.5	18.0	420	—
18	B18B-CZWHK-B-1	—	12.0	19.5	385	—
20	B20B-CZWHK-B-1	S20B-CZWHS-B-1	13.5	21.0	350	280
22	B22B-CZWHK-B-1	—	15.0	22.5	315	—
24	B24B-CZWHK-B-1	—	16.5	24.0	315	—
26	B26B-CZWHK-B-1	S26B-CZWHS-B-1	18.0	25.5	280	224
28	B28B-CZWHK-B-1	—	19.5	27.0	280	—
30	B30B-CZWHK-B-1	—	21.0	28.5	245	—
32	B32B-CZWHK-B-1	—	22.5	30.0	245	—
34	B34B-CZWHK-B-1	—	24.0	31.5	245	—
36	B36B-CZWHK-B-1	—	25.5	33.0	210	—
38	B38B-CZWHK-B-1	—	27.0	34.5	210	—
40	B40B-CZWHK-B-1	S40B-CZWHS-B-1	28.5	36.0	210	168

Material and Finish

Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PA 66, UL94V-0, natural (grayish color)
Note: Models B()B-CZW~~H~~K-B are the headers without the boss.

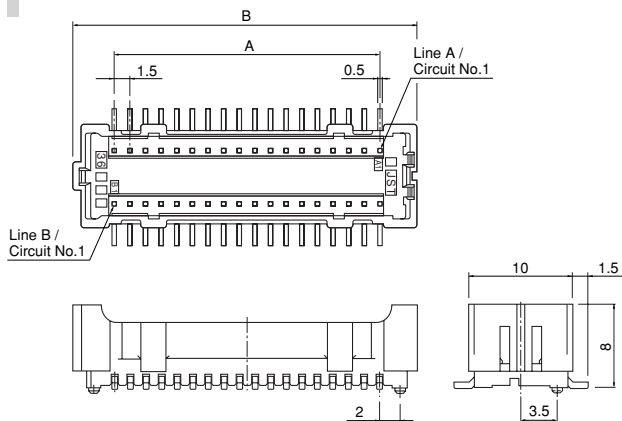
RoHS compliance This product displays (LF)(SN) on a label.

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **B16B-CZW~~H~~K-B-1**
H...natural (grayish color)
Y...yellow

CZW connector SMT type shrouded header

Top entry type



Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
36	BM36B-CZWSSS-1-TF	25.5	33.0	300
40	BM40B-CZWSSS-1-TF	28.5	36.0	300

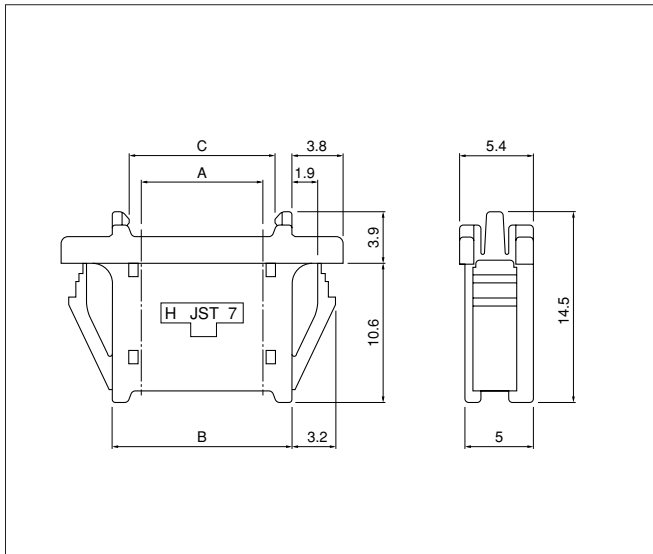
Material and Finish

Press pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA, UL94V-0, natural (ivory)
Note: Models BM()B-CZW~~S~~SS-TF are the headers without the boss.

RoHS compliance This product displays (LF)(SN) on a label.

CZ FAMILY SERIES / CZ • CZW • CZH • CZHW • TZ • TZW

TZ connector (Unit for wire-to-wire connection)



Circuits	Model No.	Dimensions (mm)					Q'ty / box
		A	B	C	D	E	
2	BU02P-TZ-S	1.5	5.9	3.5	6.3	9.9	500
3	BU03P-TZ-S	3.0	7.4	5.0	7.8	11.4	500
4	BU04P-TZ-S	4.5	8.9	6.5	9.3	12.9	500
5	BU05P-TZ-S	6.0	10.4	8.0	10.8	14.4	500
6	BU06P-TZ-S	7.5	11.9	9.5	12.3	15.9	250
7	BU07P-TZ-S	9.0	13.4	11.0	13.8	17.4	250
8	BU08P-TZ-S	10.5	14.9	12.5	15.3	18.9	250
9	BU09P-TZ-S	12.0	16.4	14.0	16.8	20.4	250
10	BU10P-TZ-S	13.5	17.9	15.5	18.3	21.9	250
11	BU11P-TZ-S	15.0	19.4	17.0	19.8	23.4	250
12	BU12P-TZ-S	16.5	20.9	18.5	21.3	24.9	250
13	BU13P-TZ-S	18.0	22.4	20.0	22.8	26.4	250
14	BU14P-TZ-S	19.5	23.9	21.5	24.3	27.9	250
15	BU15P-TZ-S	21.0	25.4	23.0	25.8	29.4	250
16	BU16P-TZ-S	22.5	26.9	24.5	27.3	30.9	250
17	BU17P-TZ-S	24.0	28.4	26.0	28.8	32.4	250
18	BU18P-TZ-S	25.5	29.9	27.5	30.3	33.9	150
19	BU19P-TZ-S	27.0	31.4	29.0	31.8	35.4	150
20	BU20P-TZ-S	28.5	32.9	30.5	33.3	36.9	100

Material and Finish

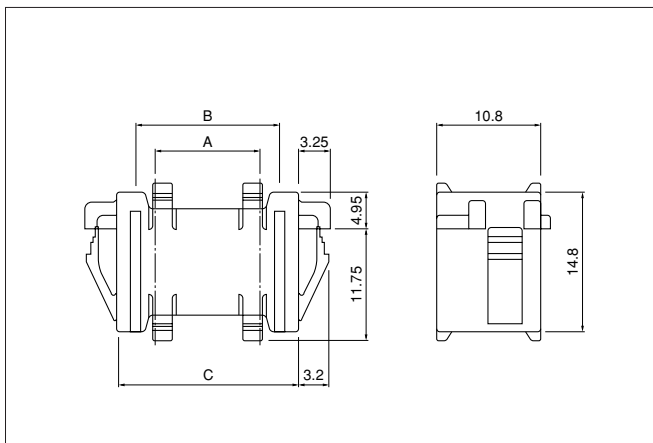
Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Housing: PA 66, UL94V-0, natural (white)

RoHS compliance This product displays (LF)(SN) on a label.

Note: D and E dimensions; Refer to the panel layout of TZ connector (P2).

TZW connector (Dual-row unit for wire-to-wire connection)



Circuits	Model No.	Dimensions (mm)					Q'ty / box
		A	B	C	D	E	
16	BU16P-TZW-S	10.5	15.0	19.0	19.4	23.0	160
18	BU18P-TZW-S	12.0	16.5	20.5	20.9	24.5	140
20	BU20P-TZW-S	13.5	18.0	22.0	22.4	26.0	140
22	BU22P-TZW-S	15.0	19.5	23.5	23.9	27.5	140
24	BU24P-TZW-S	16.5	21.0	25.0	25.4	29.0	120
26	BU26P-TZW-S	18.0	22.5	26.5	26.9	30.5	120
28	BU28P-TZW-S	19.5	24.0	28.0	28.4	32.0	120
30	BU30P-TZW-S	21.0	25.5	29.5	29.9	33.5	100
32	BU32P-TZW-S	22.5	27.0	31.0	31.4	35.0	100
34	BU34P-TZW-S	24.0	28.5	32.5	32.9	36.5	100
36	BU36P-TZW-S	25.5	30.0	34.0	34.4	38.0	100
38	BU38P-TZW-S	27.0	31.5	35.5	35.9	39.5	100
40	BU40P-TZW-S	28.5	33.0	37.0	37.4	41.0	80

Material and Finish

Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Housing: PA 66, UL94V-0, natural (white)

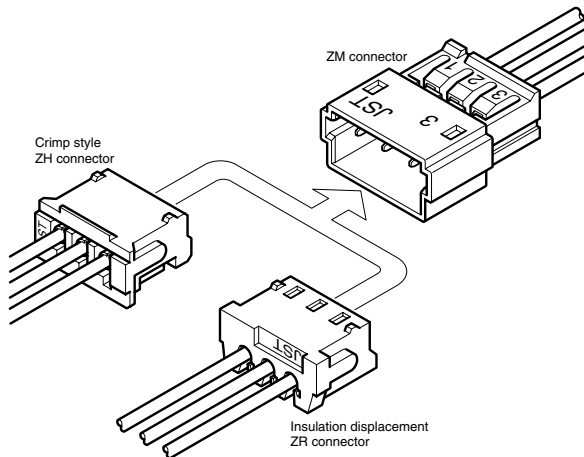
RoHS compliance This product displays (LF)(SN) on a label.

Note: D and E dimensions; Refer to the panel layout of TZW connector (P2).



ZM CONNECTOR

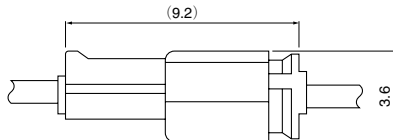
1.5mm pitch/Crimp style Wire-to-wire connectors Matable with ZH and ZR receptacles



1.5mm pitch connectors allow higher densities.

- **Compact design**
- **Housing-to-terminal locks**
- **Both crimp style and insulation displacement receptacles can be used**
- **Fully shrouded header resists "rocking" during mating**

ZM/ZH connector



Specifications

- Current rating: 0.7A AC, DC max. (AWG #28)
 - Voltage rating: 50V AC, DC max. (See Note below.)
 - Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
 - Contact resistance: Initial value/ 20m Ω max.
After environmental testing/ 30m Ω max.
 - Insulation resistance: 500M Ω min.
 - Withstanding voltage: 500V AC/minute
 - Applicable wire: AWG #30 to #28
- Note: Contacts are exposed at the housing lances.
Care should be taken so that these parts do not touch the metal section of the chassis.*

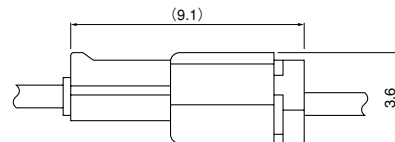
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

Recognized E60389

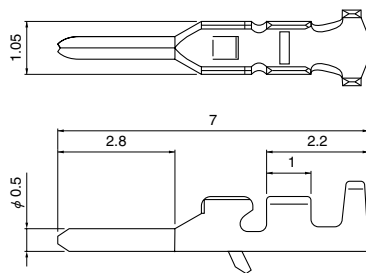
Certified LR20812

ZM/ZR connector

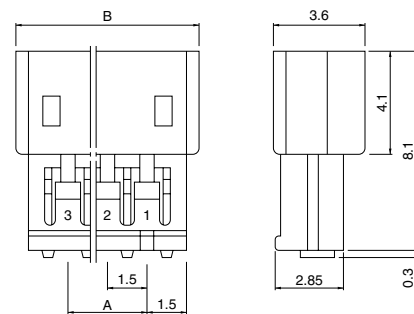


Plug / ZM connector

Contact



Housing



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SMM-003T-P0.5	0.05~0.08	30~28	0.7~0.9	16,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SMM-003T-P0.5	AP-K2N	MKS-L	MK/SMM-003-05	APLMK SMM003-05
		*MKS-SC	SC/SMM-003-05	APLSC SMM003-05

Note: *Strip-crimp applicator

Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	ZMR-02	1.5	5.5	2,000
3	ZMR-03	3.0	7.0	2,000
9	ZMR-09	12.0	16.0	1,000
13	ZMR-13	18.0	22.0	1,000

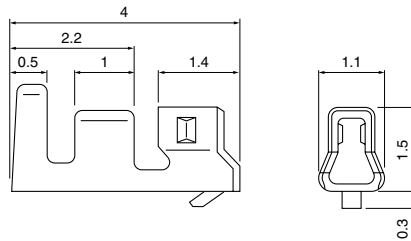
Material

Glass-filled PA 66, UL94V-0

RoHS compliance

Receptacle / ZH connector (Crimp style)

Contact



Model No.	Dimensions (mm)		Insulation (mm)	Q'ty / reel
	mm ²	AWG #		
SZH-003T-P0.5	0.032~0.08	32~28	0.5~0.9	16,000

Material and Finish

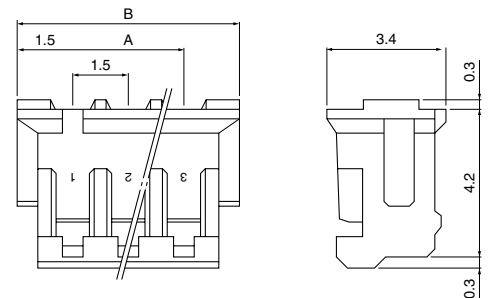
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SZH-003T-P0.5	AP-K2N	MKS-L	MK/SZH-003-05	APLMK SZH003-05
		*MKS-SC	SC/SZH-003-05	APLSC SZH003-05

Note: *Strip-crimp applicator

Housing



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	ZHR-2	1.5	4.5	1,000
3	ZHR-3	3.0	6.0	1,000
9	ZHR-9	12.0	15.0	1,000
13	ZHR-13	18.0	21.0	1,000

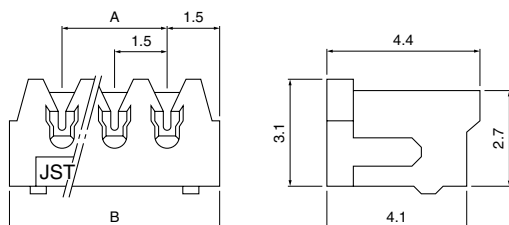
Material

PA 66, UL94V-0

RoHS compliance

Receptacle / ZR connector (IDC)

Receptacle

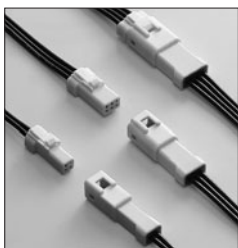


Circuits	Model No.		Dimensions (mm)		Q'ty / bag
	AWG #30	AWG #28	A	B	
2	02ZR-3H-P	02ZR-8M-P	1.5	4.5	2,000
3	03ZR-3H-P	03ZR-8M-P	3.0	6.0	2,000
9	09ZR-3H-P	09ZR-8M-P	12.0	15.0	2,000
13	13ZR-3H-P	13ZR-8M-P	18.0	21.0	2,000

Material

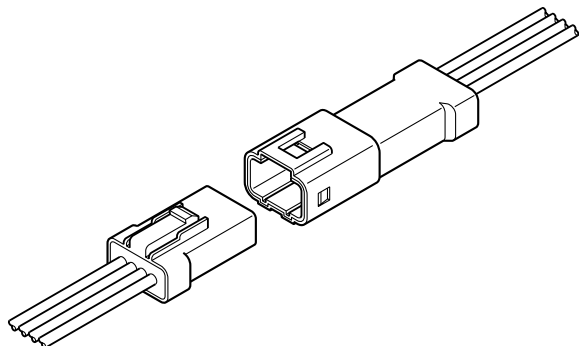
Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: Glass-filled PA 66, UL94V-0

RoHS compliance



JWPB CONNECTOR

2.0mm pitch/Crimp style wire-to-wire connectors



Applicable for waterproof usage. This is the wire-to-wire connector that is grade 7 ingress protection of JIS C 0920 (IEC 60529 IPX7).

- **Waterproof grade**
- **Contained seal ring**
- **Solid rubber seal**
- **Double-spring construction**
- **Housing-to-terminal locks**
- **Inner-housing lock**

Specifications

- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 100V AC, DC
- Temperature range: -55°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 10m Ω max.
After environmental testing/ 15m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,000V AC/minute
- Applicable wire: AWG #26 to #22
0.13 to 0.33mm²
Insulation O.D./ 1.4 to 1.7mm
- Waterproof grade: Grade 7 ingress protection
of JIS C 0920(IEC 60529 IPX7)

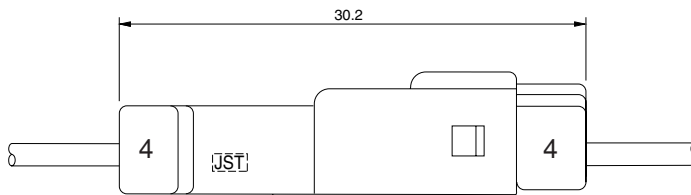
* Compliant with RoHS.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

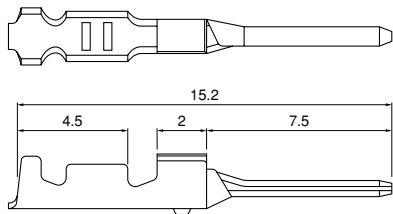
Standards

Recognized E60389

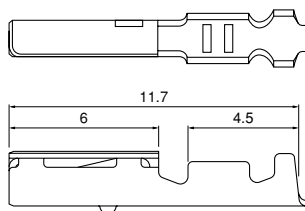


Contact

Tab contact



Receptacle contact



Model No.		Applicable wire		Insulation O.D. (mm)	Q'ty / reel
Tab contact	Receptacle contact	mm ²	AWG #		
SWPT-001T-P025	SWPR-001T-P025	0.13~0.33	26~22	1.4~1.7	8,200

Material and Finish

Tab contact: Phosphor bronze, tin-plated (reflow treatment)
Receptacle contact: Copper alloy, tin-plated (reflow treatment)

RoHS compliance

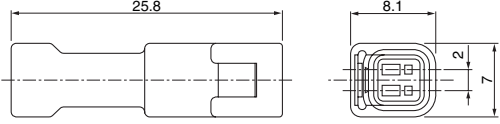
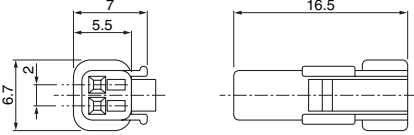
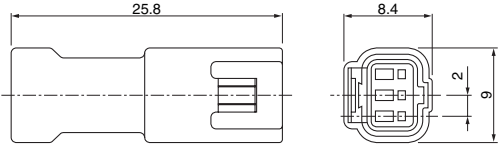
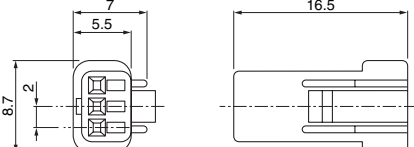
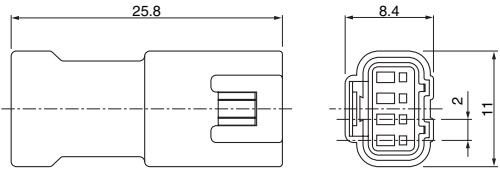
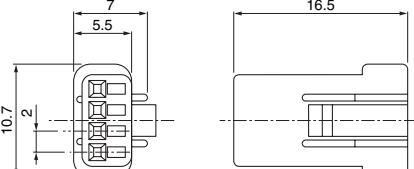
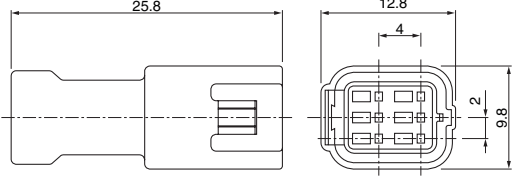
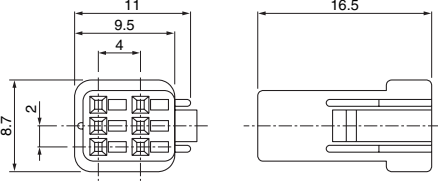
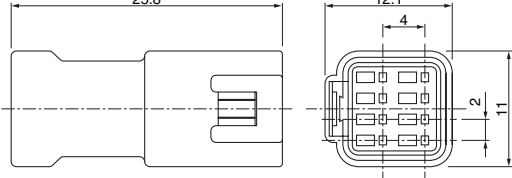
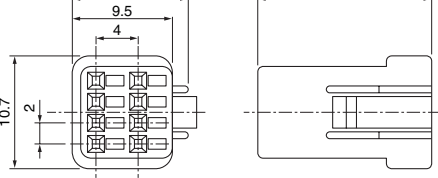
Note: Contact JST for brass products.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SWPT-001T-P025	AP-K2N	MKS-L	MK/SWPR/T-001-025	APLMK SWPR/T001-025
SWPR-001T-P025		—	—	—

JWPF CONNECTOR

Housing

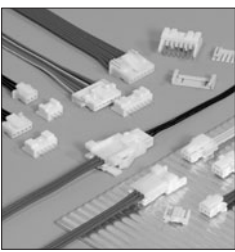
Material: PBT, UL94V-0, natural (white)

Circuits	Tab housing (for Tab contact)		Receptacle housing (for Receptacle contact)	
	02T-JWPF-VSLE-S	Q'ty / bag	02R-JWPF-VSLE-S	Q'ty / bag
2		1,000		1,000
	03T-JWPF-VSLE-S	Q'ty / bag	03R-JWPF-VSLE-S	Q'ty / bag
3		1,000		1,000
	04T-JWPF-VSLE-S	Q'ty / bag	04R-JWPF-VSLE-S	Q'ty / bag
4		1,000		1,000
	06T-JWPF-VSLE-D	Q'ty / bag	06R-JWPF-VSLE-D	Q'ty / bag
6		1,000		1,000
	08T-JWPF-VSLE-D	Q'ty / bag	08R-JWPF-VSLE-D	Q'ty / bag
8		1,000		1,000

RoHS compliance

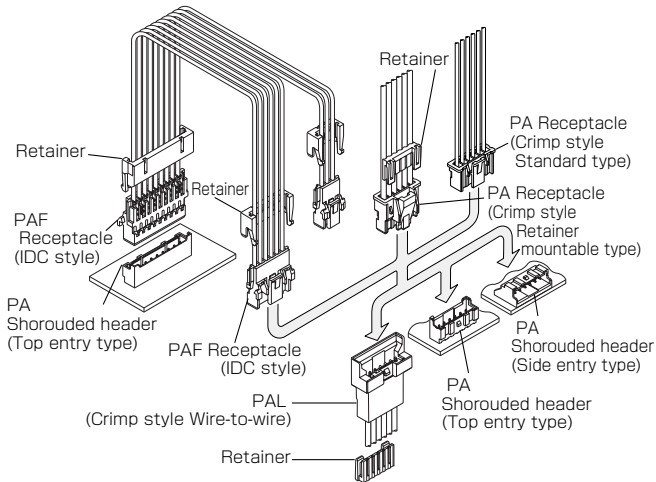
Note: 1. Receptacle housing comes with seal rubber plate.

2. Tab housing comes with seal rubber plate, seal ring and seal ring holder.



PA FAMILY SERIES/PA•PAF•PAL CONNECTOR

2.0mm pitch/Wire-to-board (Crimp style/IDC) / Wire-to-wire (Crimp style/IDC)



Based upon wire-to-board crimp style PA connectors, the PA series family of connector have been expanded to meet the requirement of complex wire harness of 2.0mm pitch connectors with secure locking mechanism thanks to the additional line up of wire-to-board IDC style PAF connectors and wire-to-wire crimp style PAL connectors.

- **Secure locking device**
- **Interchangeable between crimp and IDC socket**
- **Secondary retainers**
- **Harness variation**

PA connector (Standard type, Retainer mountable type)

- **Highly reliable contact**
- **Insertion guide mechanism**
- **Flanged press pin**

PAF connector

- **The industry's first secure lock ID connectors**
- **Metallic strain relief**
- **Retainer with four locking points**

PAL connector

- **The industry's first wire to wire 2.0mm pitch retainer mountable type connector.**
- **Either with or without panel lock can be selected according to application.**

Standards

Recognized E60389

Certified LR20812

Specifications

PA Connector (Standard type)

- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 10m Ω max.
After environmental testing/ 20m Ω max.
- Insulation resistance: Initial/ 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: AWG #28 to #22
- Applicable PC board thickness: 1.6mm

PA Connector (Retainer mountable type)

- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 100V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 15m Ω max.
After environmental testing/ 25m Ω max.
- Insulation resistance: Initial/ 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: AWG #28 to #22

PAF Connector

- Current rating: 1.0A AC, DC (AWG #26)
- Voltage rating: 100V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 15m Ω max.
After environmental testing/ 25m Ω max.
- Insulation resistance: Initial/ 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: UL1061(Contact JST for details regarding other UL wires.)
AWG #26
Conductor/ 7 strands, tin-coated annealed copper
Insulation O.D./ 0.9 to 1.0mm

PAL Connector

- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 100V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 15m Ω max.
After environmental testing/ 25m Ω max.
- Insulation resistance: Initial/ 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: AWG #28 to #22
- Applicable panel thickness : 0.5 to 2.0mm

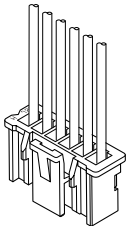
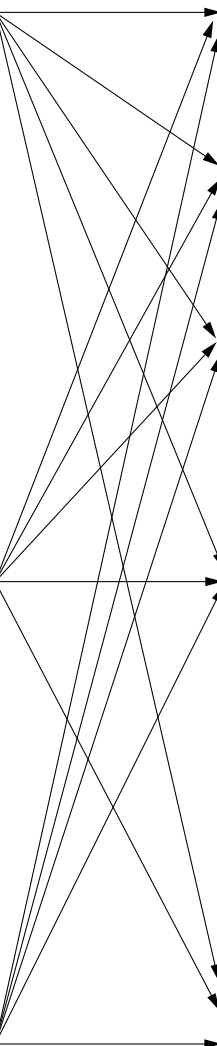
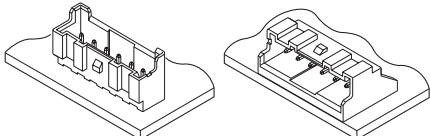
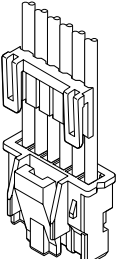
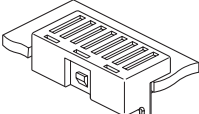
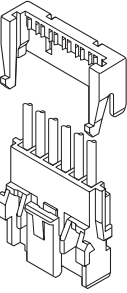
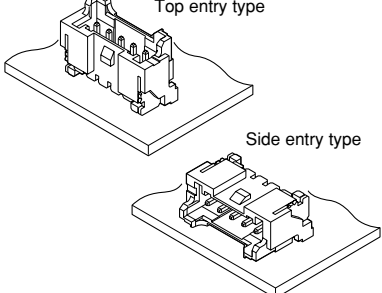
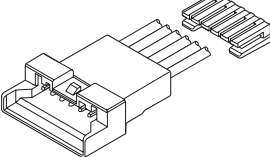
* Compliant with RoHS.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

PA FAMILY SERIES /PA•PAF•PAL CONNECTOR

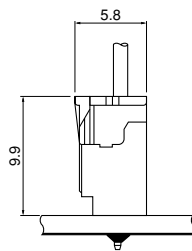
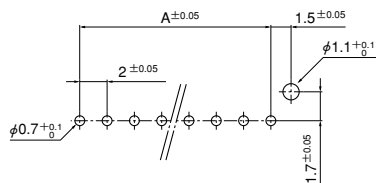
List of combinations

<p>Crimp style Standard type</p> 	<p><u>Contact</u> SPHD-001T-P0.5 SPHD-002T-P0.5</p> <p><u>Housing</u> PAP-()V-S</p>		<p><u>Shrouded header</u> B()B-PASK B()B-PASK-1 S()B-PASK-2</p>	<p>Top entry type Side entry type</p> 
<p>Crimp style Retainer mountable type</p> 	<p><u>Contact</u> SPA-001T-P0.5</p> <p><u>Housing</u> PARP-()V</p> <p><u>Retainer</u> PMS-()V-S</p>		<p><u>Shrouded header</u> BE()B-PASK</p>	<p>Bottom type</p> 
<p>Insulation displacement type</p> 	<p><u>Receptacle</u> ()PAF-6S</p> <p><u>Retainer</u> PAFS-()V-S</p>		<p><u>Shrouded header</u> BM()B-PASS BM()B-PASS-1 SM()B-PASS SM()B-PASS-1</p>	<p>SMT type</p> <p>Top entry type Side entry type</p> 
			<p><u>Contact</u> SPAL-001T-P0.5 SPAL-002T-P0.5</p> <p><u>Receptacle housing</u> PALR-()V(F)</p> <p><u>Retainer</u> PMS-()V-S</p>	<p>Wire to wire Connectors</p> 

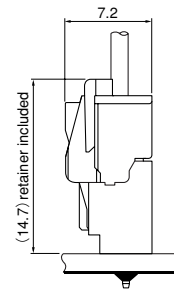
PA FAMILY SERIES /PA•PAF•PAL CONNECTOR

Through-hole type

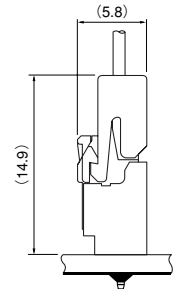
Top entry type



PA Receptacle
(Standard type)
+
PA Header

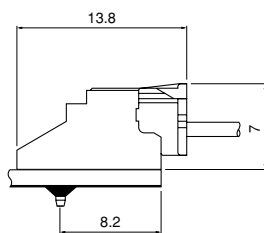
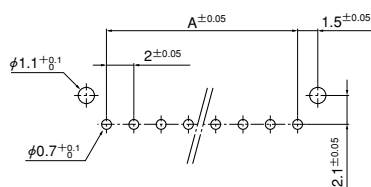


PA Receptacle
(Retainer mountable type)
+
PA Header

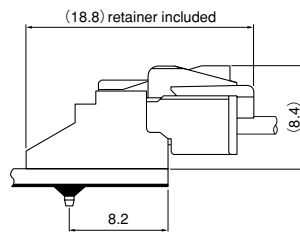


PAF Receptacle
+
PA Header

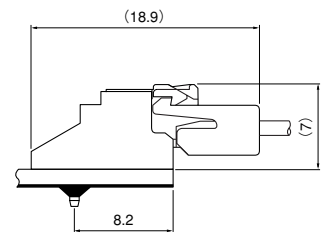
Side entry type



PA Receptacle
(Standard type)
+
PA side entry type header

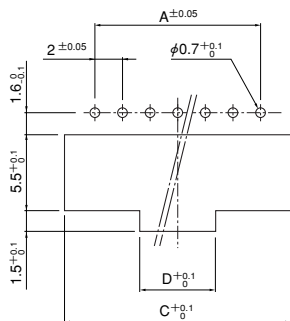


PA Receptacle
(Retainer mountable type)
+
PA side entry type header

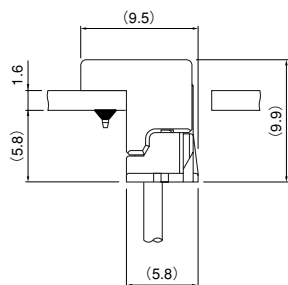


PAF Receptacle
+
PA side entry type header

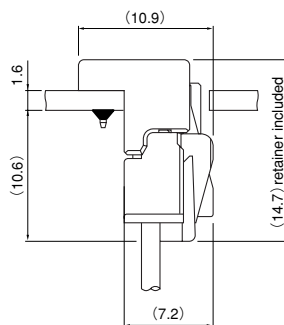
Bottom type



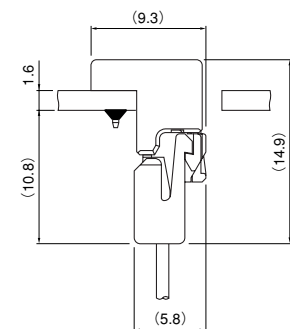
Note: C and D dimensions; Refer to the header bottom type.



PA Receptacle
(Standard type)
+
PA bottom type header

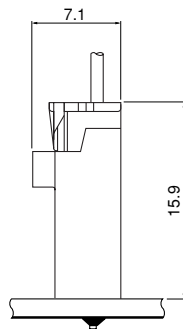
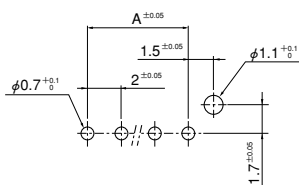


PA Receptacle
(Retainer mountable type)
+
PA bottom type header

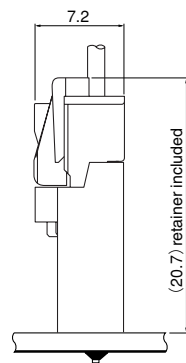


PAF Receptacle
+
PA bottom type header

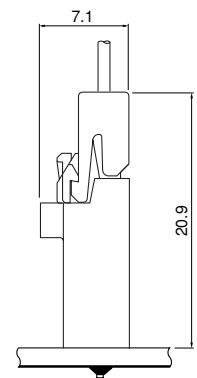
High box type



PA Receptacle
(Standard type)
+
PA high box type header



PA Receptacle
(Retainer mountable type)
+
PA high box type header



PAF Receptacle
+
PA high box type header

Note: 1. The above figure is the figure viewed from the connector mounting side.

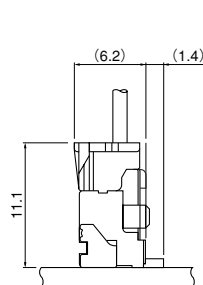
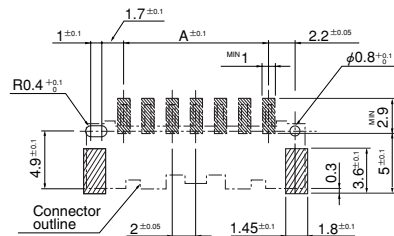
2. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.

3. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

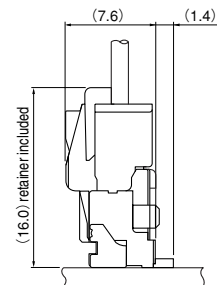
PA FAMILY SERIES /PA•PAF•PAL CONNECTOR

SMT type

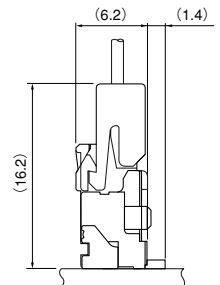
Top entry type



PA Receptacle
(Standard type)
+
PA Header

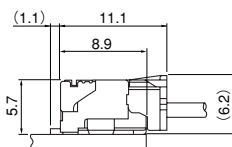
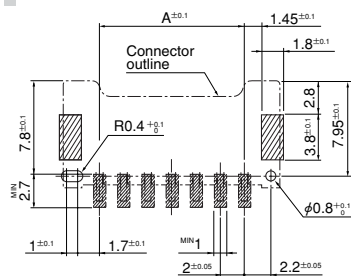


PA Receptacle
(Retainer mountable type)
+
PA Header

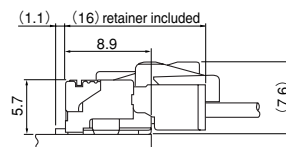


PAF Receptacle
+
PA Header

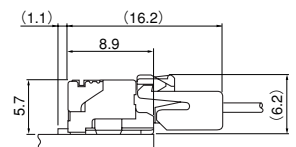
Side entry type



PA Receptacle
(Standard type)
+
PA side entry type header



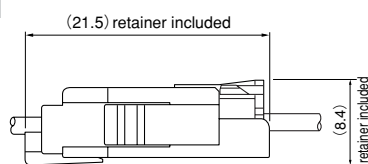
PA Receptacle
(Retainer mountable type)
+
PA side entry type header



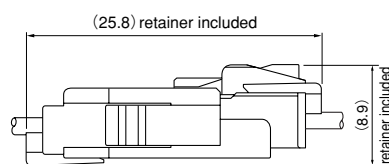
PAF Receptacle
+
PA side entry type header

*Note: 1. The above figure is the figure viewed from the connector mounting side.
2. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
3. The dimensions above should serve as a guideline. Contact JST for details.*

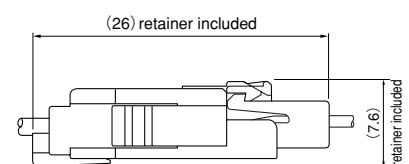
Wire-to-wire



PA Receptacle
(Standard type)
+
PAL Receptacle



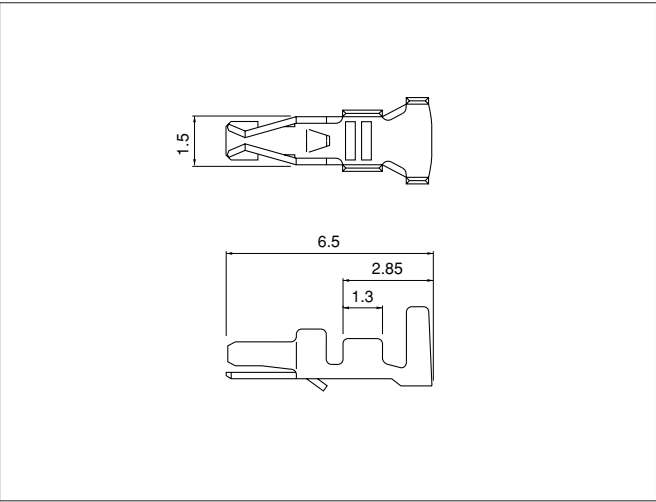
PA Receptacle
(Retainer mountable type)
+
PAL Receptacle



PAF Receptacle
+
PAL Receptacle

PA FAMILY SERIES /PA CONNECTOR (Crimp style Standard type)

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SPHD-001T-P0.5	0.13~0.33	26~22	1.0~1.5	8,000
SPHD-002T-P0.5	0.08~0.21	28~24	0.9~1.5	8,000

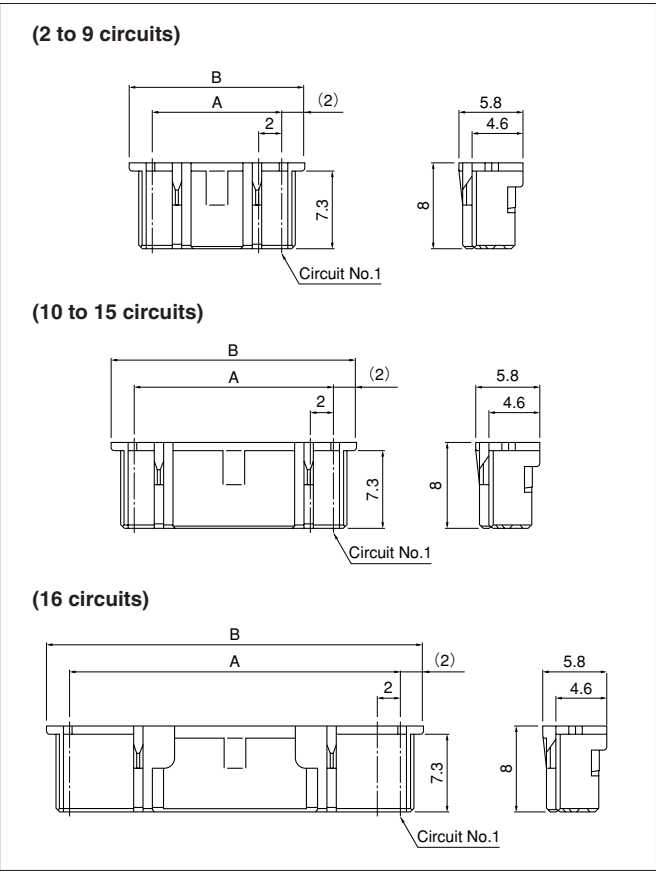
Material and Finish				
Phosphor bronze, tin-plated (reflow treatment)				

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPHD-002T-P0.5	AP-K2N	MKS-L-10	MK/SPHD-002-05	APLMK SPHD002-05
		*MKS-SC-10	SC/SPHD-002-05	APLSC SPHD002-05
SPHD-001T-P0.5		MKS-L-10	MK/SPHD-001-05	APLMK SPHD001-05
		*MKS-SC-10	SC/SPHD-001-05	APLSC SPHD001-05

Note: *Strip-crimp applicator

Housing



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	PAP-02V-S	2.0	6.0	1,000
3	PAP-03V-S	4.0	8.0	1,000
4	PAP-04V-S	6.0	10.0	1,000
5	PAP-05V-S	8.0	12.0	1,000
6	PAP-06V-S	10.0	14.0	1,000
7	PAP-07V-S	12.0	16.0	1,000
8	PAP-08V-S	14.0	18.0	1,000
9	PAP-09V-S	16.0	20.0	1,000
10	PAP-10V-S	18.0	22.0	1,000
11	PAP-11V-S	20.0	24.0	1,000
12	PAP-12V-S	22.0	26.0	1,000
13	PAP-13V-S	24.0	28.0	1,000
14	PAP-14V-S	26.0	30.0	1,000
15	PAP-15V-S	28.0	32.0	1,000
16	PAP-16V-S	30.0	34.0	1,000

Material				
PA 66, UL94V-0, natural (white)				

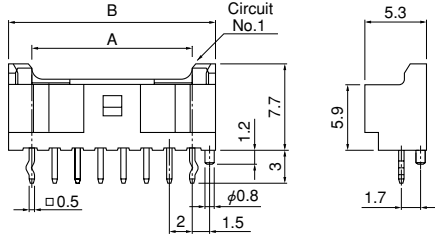
RoHS compliance

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

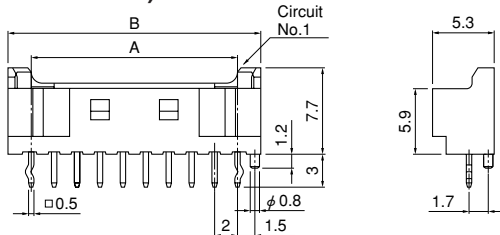
ex. **PAP-02V-S**
S...natural (white)
K...black R...red E...blue M...green O...orange N...brown
P...purple PK...pink Y...yellow L...lemon yellow FY...vivid yellow
LE...light blue H...gray TR...tomato red

Through-hole type shrouded header

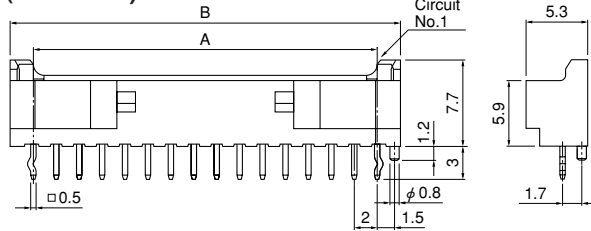
Top entry type (2 to 9 circuits)



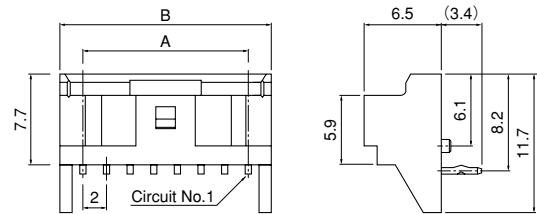
(10 to 15 circuits)



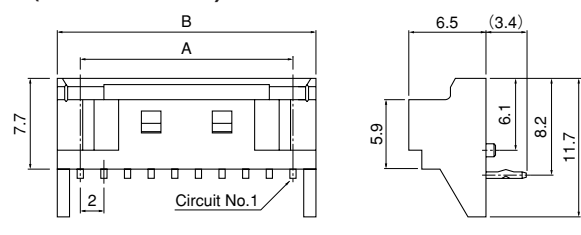
(16 circuits)



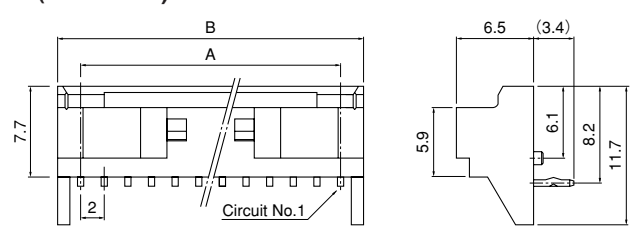
Side entry type (2 to 9 circuits)



(10 to 15 circuits)



(16 circuits)



Top entry type

Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Without a boss	With a boss	A	B	
2 (Note1)	B02B-PAFYK-A	B02B-PAFYK-1A	2.0	6.0	1,000
2	B02B-PASK	B02B-PASK-1	2.0	6.0	1,000
3	B03B-PASK	B03B-PASK-1	4.0	8.0	1,000
4	B04B-PASK	B04B-PASK-1	6.0	10.0	1,000
5	B05B-PASK	B05B-PASK-1	8.0	12.0	500
6	B06B-PASK	B06B-PASK-1	10.0	14.0	500
7	B07B-PASK	B07B-PASK-1	12.0	16.0	500
8	B08B-PASK	B08B-PASK-1	14.0	18.0	500
9	B09B-PASK	B09B-PASK-1	16.0	20.0	500
10	B10B-PASK	B10B-PASK-1	18.0	22.0	500
11	B11B-PASK	B11B-PASK-1	20.0	24.0	250
12	B12B-PASK	B12B-PASK-1	22.0	26.0	250
13	B13B-PASK	B13B-PASK-1	24.0	28.0	250
14	B14B-PASK	B14B-PASK-1	26.0	30.0	250
15	B15B-PASK	B15B-PASK-1	28.0	32.0	250
16	B16B-PASK	B16B-PASK-1	30.0	34.0	250

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
 Wafer: Glass-filled PBT, UL94V-0, natural (white)
 (Note1) PA 66, UL94V-0, vivid yellow

RoHS compliance This product displays (LF)(SN) on a label.

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
 For availability, delivery and minimum order quantity, contact JST.

ex. **B02B-PASK**

S...natural (white)
 K...black R...red E...blue M...green O...orange N...brown
 P...purple PK...pink Y...yellow L...lemon yellow FY...vivid yellow
 LE...light blue H...gray TR...tomato red

Side entry type

Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	S02B-PASK-2	2.0	6.0	1,000
3	S03B-PASK-2	4.0	8.0	1,000
4	S04B-PASK-2	6.0	10.0	500
5	S05B-PASK-2	8.0	12.0	500
6	S06B-PASK-2	10.0	14.0	500
7	S07B-PASK-2	12.0	16.0	250
8	S08B-PASK-2	14.0	18.0	250
9	S09B-PASK-2	16.0	20.0	250
10	S10B-PASK-2	18.0	22.0	250
11	S11B-PASK-2	20.0	24.0	250
12	S12B-PASK-2	22.0	26.0	250
13	S13B-PASK-2	24.0	28.0	200
14	S14B-PASK-2	26.0	30.0	200
15	S15B-PASK-2	28.0	32.0	200
16	S16B-PASK-2	30.0	34.0	200

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
 Wafer: Glass-filled PBT, UL94V-0, natural (white)

RoHS compliance This product displays (LF)(SN) on a label.

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
 For availability, delivery and minimum order quantity, contact JST.

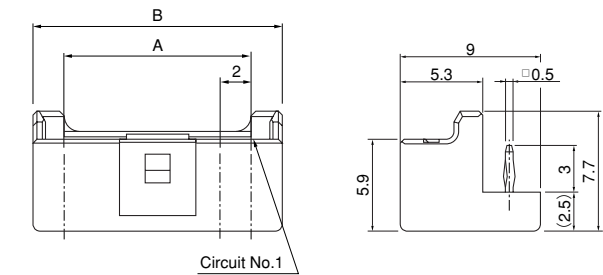
ex. **S03B-PASK-2**

S...natural (white)
 K...black R...red E...blue M...green O...orange N...brown
 P...purple PK...pink Y...yellow L...lemon yellow LE...light blue
 H...gray TR...tomato red

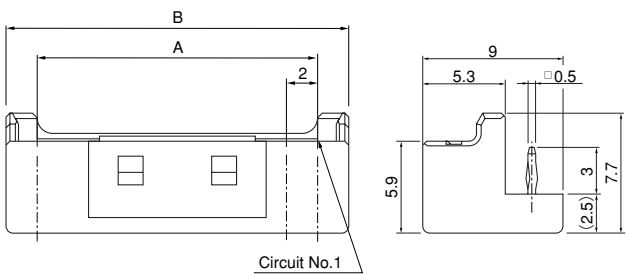
Through-hole type shrouded header

Bottom type

(5, 8 circuits)



(11, 12 circuits)



Circuits	Model No.	Dimensions(mm)				Q'ty / bag
		A	B	C	D	
5	BE05B-PASK	8.0	12.0	12.4	5.5	300
8	BE08B-PASK	14.0	18.0	18.4	5.5	200
11	BE11B-PASK	20.0	24.0	24.4	12.0	150
12	BE12B-PASK	22.0	26.0	26.4	12.0	150

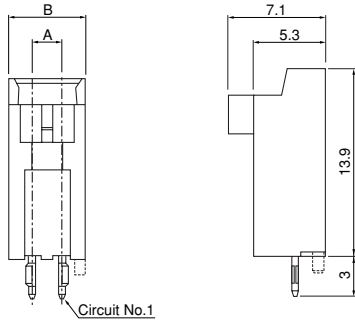
Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PBT, UL94V-0, natural

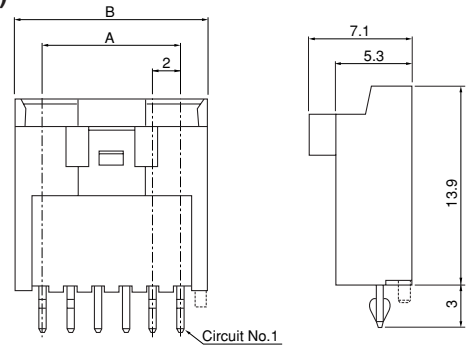
RoHS compliance This product displays (LF)(SN) on a label.
Note: C and D dimensions; Refer to the PCB layout bottom type (P3).

Shrouded header <High box type>

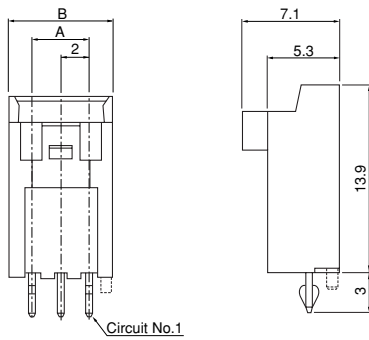
(2 circuits)



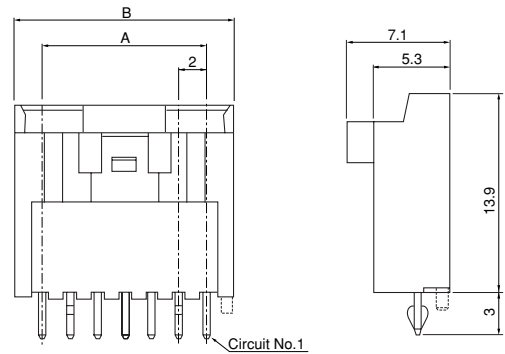
(5, 6 circuits)



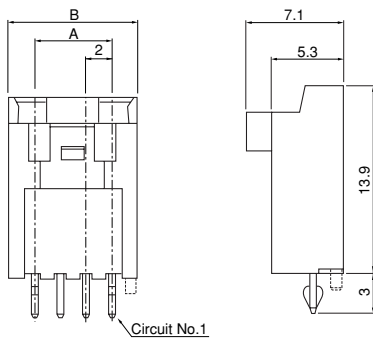
(3 circuits)



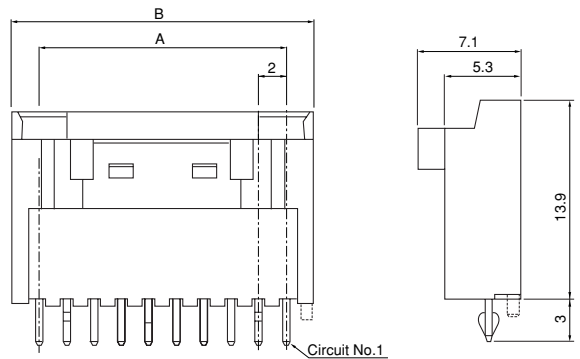
(7 to 9 circuits)



(4 circuits)



(10 to 12, 15 circuits)



Circuits	Model No.		Dimensions(mm)		Q'ty / box
	Without a boss	With a boss	A	B	
2	BH02B-PASK	BH02B-PASK-1	2.0	6.0	900
3	BH03B-PASK	BH03B-PASK-1	4.0	8.0	675
4	BH04B-PASK	BH04B-PASK-1	6.0	10.0	525
5	BH05B-PASK	BH05B-PASK-1	8.0	12.0	450
6	BH06B-PASK	BH06B-PASK-1	10.0	14.0	375
7	BH07B-PASK	BH07B-PASK-1	12.0	16.0	325
8	BH08B-PASK	BH08B-PASK-1	14.0	18.0	300
9	BH09B-PASK	BH09B-PASK-1	16.0	20.0	250
10	BH10B-PASK	BH10B-PASK-1	18.0	22.0	225
11	BH11B-PASK	BH11B-PASK-1	20.0	24.0	225
12	BH12B-PASK	BH12B-PASK-1	22.0	26.0	200
15	BH15B-PASK	BH15B-PASK-1	28.0	32.0	150

Material and Finish

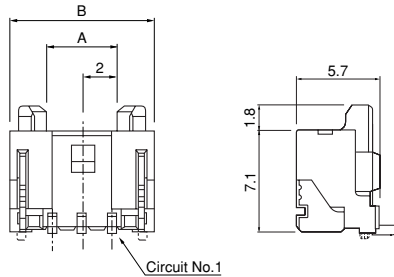
Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PBT, UL94V-0, natural (white)

RoHS compliance This product displays (LF)(SN) on a label.

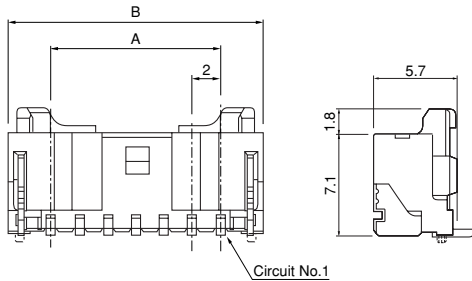
SMT type shrouded header

Top entry type

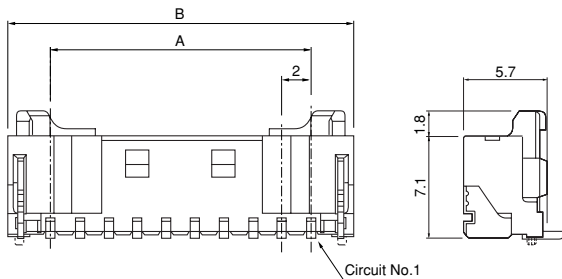
(2 to 3 circuits)



(4 to 9 circuits)

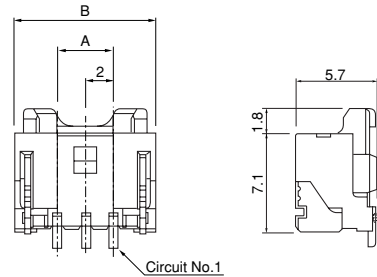


(10 to 13, 15 circuits)

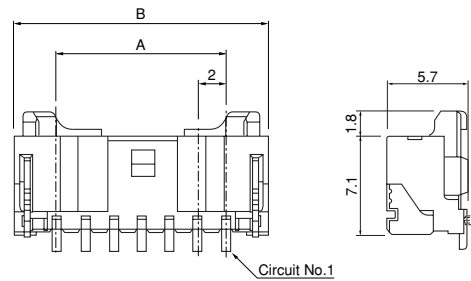


Side entry type

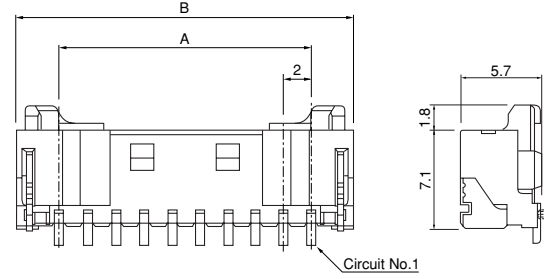
(2 to 3 circuits)



(4 to 9 circuits)



(10 to 13, 15 circuits)



Top entry type

Circuits	Model No.		Dimensions(mm)		Q'ty / reel
	Without a boss	With a boss	A	B	
2	BM02B-PASS-(*)	BM02B-PASS-1-(*)	2.0	8.0	500
3	BM03B-PASS-(*)	BM03B-PASS-1-(*)	4.0	10.0	500
4	BM04B-PASS-(*)	BM04B-PASS-1-(*)	6.0	12.0	500
5	BM05B-PASS-(*)	BM05B-PASS-1-(*)	8.0	14.0	500
6	BM06B-PASS-(*)	BM06B-PASS-1-(*)	10.0	16.0	500
7	BM07B-PASS-(*)	BM07B-PASS-1-(*)	12.0	18.0	500
8	BM08B-PASS-(*)	BM08B-PASS-1-(*)	14.0	20.0	500
9	BM09B-PASS-(*)	BM09B-PASS-1-(*)	16.0	22.0	500
10	BM10B-PASS-(*)	BM10B-PASS-1-(*)	18.0	24.0	500
11	BM11B-PASS-(*)	BM11B-PASS-1-(*)	20.0	26.0	500
12	BM12B-PASS-(*)	BM12B-PASS-1-(*)	22.0	28.0	500
13	BM13B-PASS-(*)	BM13B-PASS-1-(*)	24.0	30.0	500
15	BM15B-PASS-(*)	BM15B-PASS-1-(*)	28.0	34.0	500

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
 Wafer: PA, UL94V-0, natural (ivory)
 Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Note: (*): TF...taping product

TFT...taping product with suction tape.

Side entry type

Circuits	Model No.		Dimensions(mm)		Q'ty / reel
	Without a boss	With a boss	A	B	
2	SM02B-PASS-(*)	SM02B-PASS-1-(*)	2.0	8.0	1,000
3	SM03B-PASS-(*)	SM03B-PASS-1-(*)	4.0	10.0	1,000
4	SM04B-PASS-(*)	SM04B-PASS-1-(*)	6.0	12.0	1,000
5	SM05B-PASS-(*)	SM05B-PASS-1-(*)	8.0	14.0	1,000
6	SM06B-PASS-(*)	SM06B-PASS-1-(*)	10.0	16.0	1,000
7	SM07B-PASS-(*)	SM07B-PASS-1-(*)	12.0	18.0	1,000
8	SM08B-PASS-(*)	SM08B-PASS-1-(*)	14.0	20.0	1,000
9	SM09B-PASS-(*)	SM09B-PASS-1-(*)	16.0	22.0	1,000
10	SM10B-PASS-(*)	SM10B-PASS-1-(*)	18.0	24.0	1,000
11	SM11B-PASS-(*)	SM11B-PASS-1-(*)	20.0	26.0	1,000
12	SM12B-PASS-(*)	SM12B-PASS-1-(*)	22.0	28.0	1,000
13	SM13B-PASS-(*)	SM13B-PASS-1-(*)	24.0	30.0	1,000
15	SM15B-PASS-(*)	SM15B-PASS-1-(*)	28.0	34.0	1,000

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
 Wafer: PA, UL94V-0, natural (ivory)
 Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

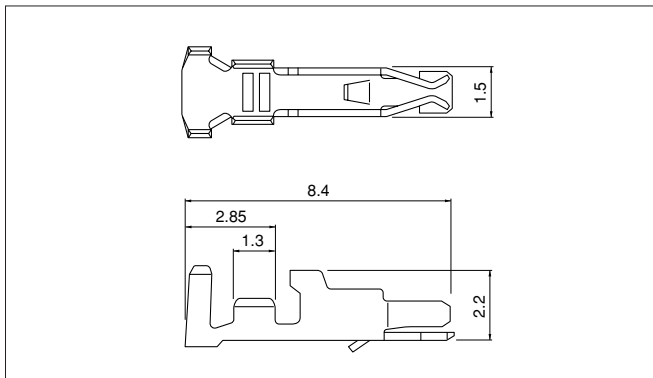
RoHS compliance This product displays (LF)(SN) on a label.

Note: (*): TB...taping product

TBT...taping product with suction tape.

PA FAMILY SERIES /PA CONNECTOR (Crimp style Retainer mountable type)

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SPA-001T-P0.5	0.13~0.33	26~22	0.9~1.5	10,000

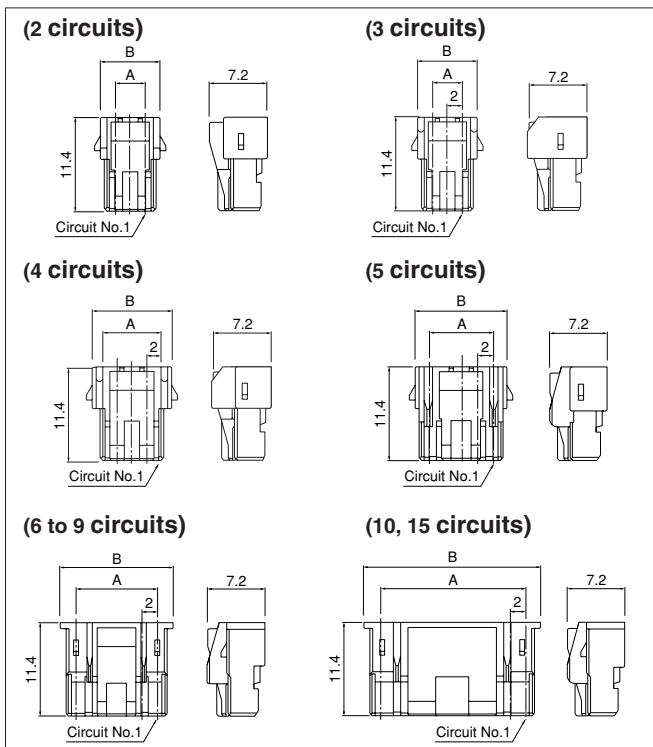
Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPA-001T-P0.5	AP-K2N	MKS-L	MK/SPA-001-05	APLMK SPA001-05
		—	—	—

Housing



Circuits	Model No.	Dimensions(mm)		Q'ty / bag
		A	B	
2	PARP-02V	2.0	5.4	1,000
3	PARP-03V	4.0	7.4	1,000
4	PARP-04V	6.0	9.4	1,000
5	PARP-05V	8.0	11.4	1,000
6	PARP-06V	10.0	14.0	1,000
7	PARP-07V	12.0	16.0	1,000
8	PARP-08V	14.0	18.0	1,000
9	PARP-09V	16.0	20.0	1,000
10	PARP-10V	18.0	22.0	1,000
15	PARP-15V	28.0	32.0	500

Material

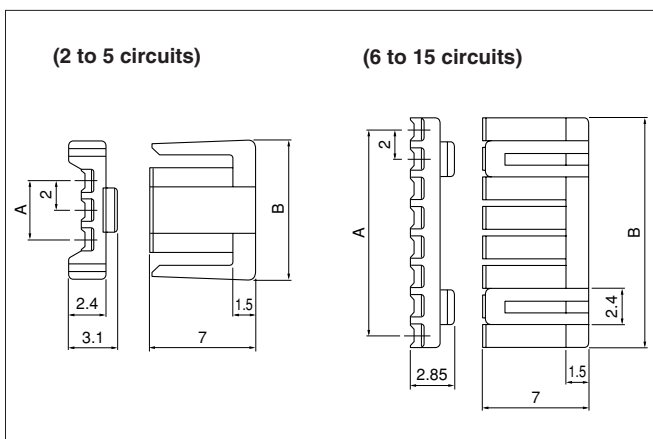
PA 66, UL94V-0, natural (white)

RoHS compliance

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **PARP-02V-oo**
(blank)...natural (white)
R...red E...blue Y...yellow M...green

Retainer



Circuits	Model No.	Dimensions(mm)		Q'ty / bag
		A	B	
2	PMS-02V-S	2.0	7.3	1,000
3	PMS-03V-S	4.0	9.3	1,000
4	PMS-04V-S	6.0	11.3	1,000
5	PMS-05V-S	8.0	13.3	1,000
6	PMS-06V-S	10.0	11.55	1,000
7	PMS-07V-S	12.0	13.55	1,000
8	PMS-08V-S	14.0	15.55	1,000
9	PMS-09V-S	16.0	17.55	1,000
10	PMS-10V-S	18.0	19.55	1,000
15	PMS-15V-S	28.0	29.55	1,000

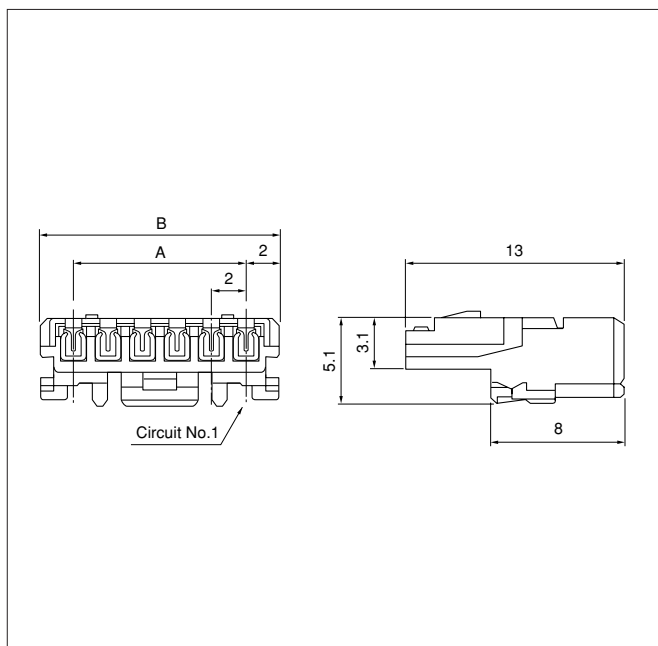
Material

Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance

PA FAMILY SERIES /PAF CONNECTOR (Insulation displacement type)

Receptacle



Circuits	Model No.	Dimensions(mm)		Q'ty / box
		A	B	
2	02PAF-6S	2.0	6.0	1,000
3	03PAF-6S	4.0	8.0	1,000
4	04PAF-6S	6.0	10.0	500
5	05PAF-6S	8.0	12.0	500
6	06PAF-6S	10.0	14.0	500
7	07PAF-6S	12.0	16.0	500
8	08PAF-6S	14.0	18.0	250
9	09PAF-6S	16.0	20.0	250
10	10PAF-6S	18.0	22.0	250
11	11PAF-6S	20.0	24.0	250
12	12PAF-6S	22.0	26.0	250
13	13PAF-6S	24.0	28.0	250
14	14PAF-6S	26.0	30.0	250
15	15PAF-6S	28.0	32.0	250
*16	16PAF-6S	30.0	34.0	250

Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)

Housing: PA 66, UL94V-0, natural (white)

RoHS compliance

Note: *Marked product is not UL/CSA approved.

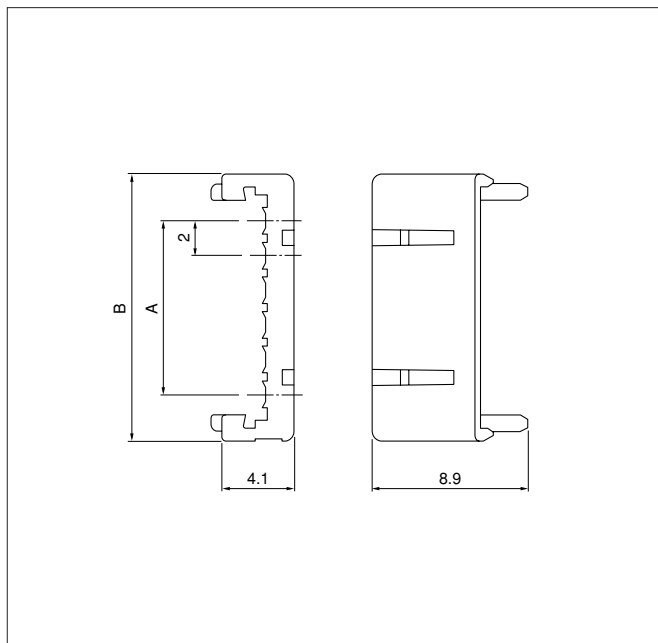
<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **02PAF-6S**

S...natural (white)

R...red E...blue M...green Y...yellow

Retainer



Circuits	Model No.	Dimensions(mm)		Q'ty / bag
		A	B	
2	PAFS-02V-S	2.0	7.4	1,000
3	PAFS-03V-S	4.0	9.4	1,000
4	PAFS-04V-S	6.0	11.4	1,000
5	PAFS-05V-S	8.0	13.4	1,000
6	PAFS-06V-S	10.0	15.4	1,000
7	PAFS-07V-S	12.0	17.4	1,000
8	PAFS-08V-S	14.0	19.4	1,000
* 9	PAFS-09V-S	16.0	21.4	1,000
*10	PAFS-10V-S	18.0	23.4	1,000
*11	PAFS-11V-S	20.0	25.4	1,000
*12	PAFS-12V-S	22.0	27.4	1,000
*13	PAFS-13V-S	24.0	29.4	1,000
*14	PAFS-14V-S	26.0	31.4	1,000
*15	PAFS-15V-S	28.0	33.4	1,000

Material

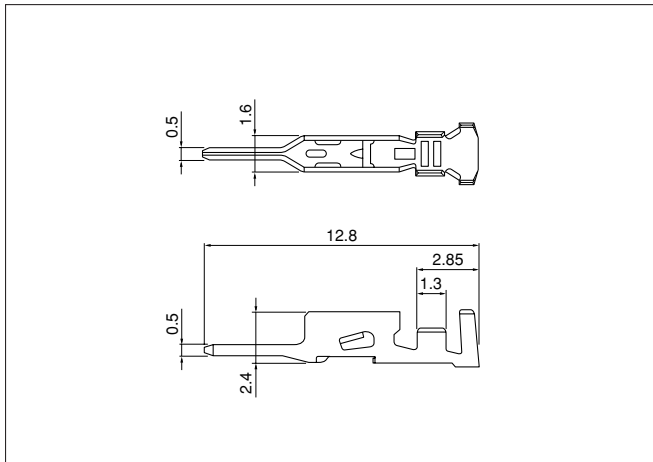
Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance

Note: *Marked products are not UL/CSA approved.

PA FAMILY SERIES /PAL CONNECTOR (Wire-to-wire type)

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SPAL-001T-P0.5	0.13~0.33	26~22	1.0~1.5	10,000
SPAL-002T-P0.5	0.08~0.21	28~24	0.9~1.5	10,000

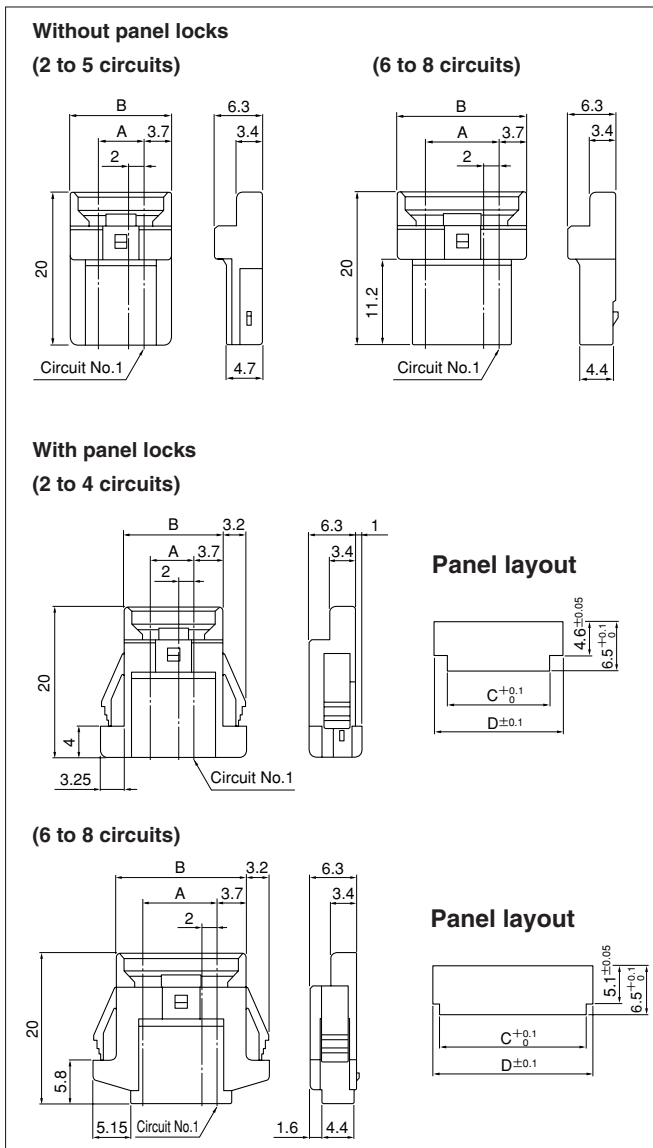
Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPAL-001T-P0.5	AP-K2N	MKS-L	MK/SPAL-001-05	APLMK SPAL001-05
		—	—	—
SPAL-002T-P0.5	AP-K2N	MKS-L	MK/SPAL-002-05	APLMK SPAL002-05
		—	—	—

Housing



Circuits	Model No.	Dimensions(mm)		Q'ty / bag
		A	B	
2	PALR-02VF	2.0	9.4	1,000
3	PALR-03VF	4.0	11.4	1,000
4	PALR-04VF	6.0	13.4	1,000
5	PALR-05VF	8.0	15.4	1,000
6	PALR-06VF	10.0	17.4	1,000
7	PALR-07VF	12.0	19.4	1,000
8	PALR-08VF	14.0	21.4	1,000

Material

PA 66, UL94V-0, natural (white)

RoHS compliance

Circuits	Model No.	Dimensions(mm)				Q'ty / bag
		A	B	C	D	
2	PALR-02V	2.0	9.4	9.8	13.4	1,000
3	PALR-03V	4.0	11.4	11.8	15.4	1,000
4	PALR-04V	6.0	13.4	13.8	17.4	1,000
6	PALR-06V	10.0	17.4	19.8	21.4	1,000
7	PALR-07V	12.0	19.4	21.8	23.4	1,000
8	PALR-08V	14.0	21.4	23.8	25.4	1,000

Material

PA 66, UL94V-0, natural (white)

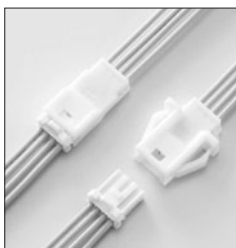
RoHS compliance

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **PALR-02V(F)-oo**
(blank)...natural (white)
R...red E...blue M...green Y...yellow

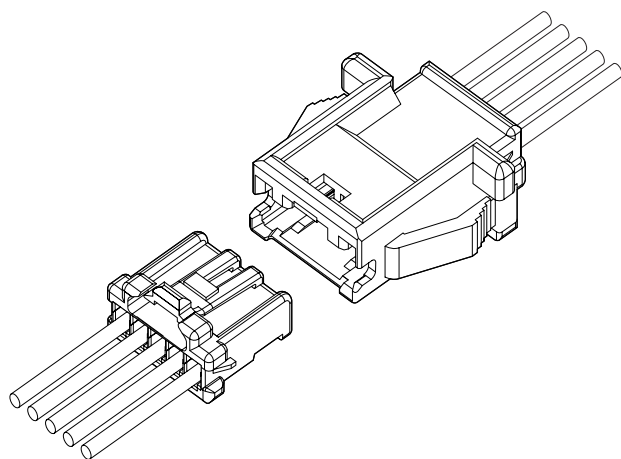
Retainer

Retainers are interchangeable with those of the PA crimp style retainer mountable type.



PNI CONNECTOR

2.0mm pitch/Crimp style wire-to-wire connectors



This connector is a 2.0mm pitch wire-to-wire connector, having incomplete mating prevention mechanism.

- **Inertial lock structure**
- **Finger-friendly design**
- **Secure locking structure**
- **Mountable on a variety of panels**
- **Secondary retainer**

Specifications

- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 100V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 15mΩ max.
After environmental testing/ 25mΩ max.
- Insulation resistance: 1,000MΩ min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: AWG #28 to #22
- Applicable panel thickness: 0.5 to 2.0mm

* Compliant with RoHS.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

Standards

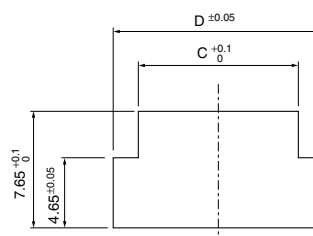
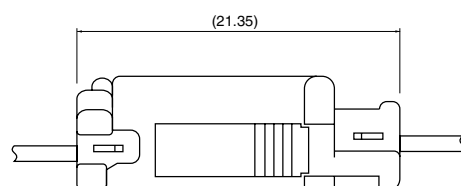
Ⓜ Recognized E60389

Ⓢ Certified LR20812

Without panel locks



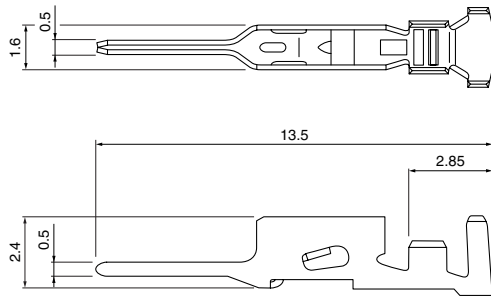
With panel locks



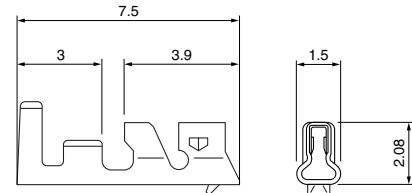
Note: C and D dimensions: Refer to receptacle housing.

Contact

Pin contact



Socket contact



Pin contact

Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SPNI-001T-P0.5	0.13~0.33	26~22	1.0~1.5	9,000
SPNI-002T-P0.5	0.08~0.21	28~24	0.9~1.5	9,000

Material and Finish

Copper alloy, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPNI-001T-P0.5	AP-K2N	MKS-L	MK/SPAL-001-05	APLMK SPAL001-05
SPNI-002T-P0.5		MKS-LS・MKS-L	MK/SPAL-002-05	APLMK SPAL002-05

Socket contact

Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SPND-001T-C0.5	0.13~0.33	26~22	1.0~1.5	8,000
SPND-002T-C0.5	0.08~0.22	28~24	0.8~1.5	8,000

Material and Finish

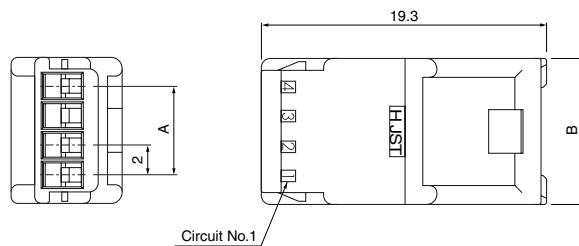
Copper alloy, tin-plated (reflow treatment)

RoHS compliance

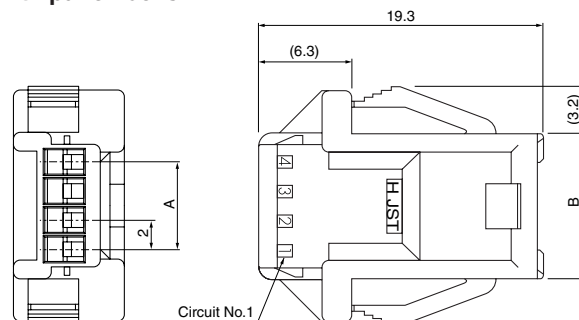
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPND-001T-C0.5	AP-K2N	MKS-L	MK/SPND-001-05	APLMK SPND001-05
SPND-002T-C0.5		MKS-LS・MKS-L	MK/SPAD/ND-002-05	APLMK SPAD/ND002-05

Receptacle housing (for pin contact)

Without panel locks



With panel locks



Circuits	Model No.		Dimensions (mm)				Q'ty / bag
	Without panel locks	With panel locks	A	B	C	D	
2	PNIRR-02VF	PNIRR-02V	—	6.0	6.4	9.7	1,000
3	PNIRR-03VF	PNIRR-03V	4.0	8.0	8.4	11.7	1,000
4	PNIRR-04VF	PNIRR-04V	6.0	10.0	10.4	13.7	500
5	PNIRR-05VF	PNIRR-05V	8.0	12.0	12.4	15.7	500
6	PNIRR-06VF	PNIRR-06V	10.0	14.0	14.4	17.7	500
8	PNIRR-08VF	PNIRR-08V	14.0	18.0	18.4	21.7	500
10	PNIRR-10VF	PNIRR-10V	18.0	22.0	22.4	25.7	500

Material

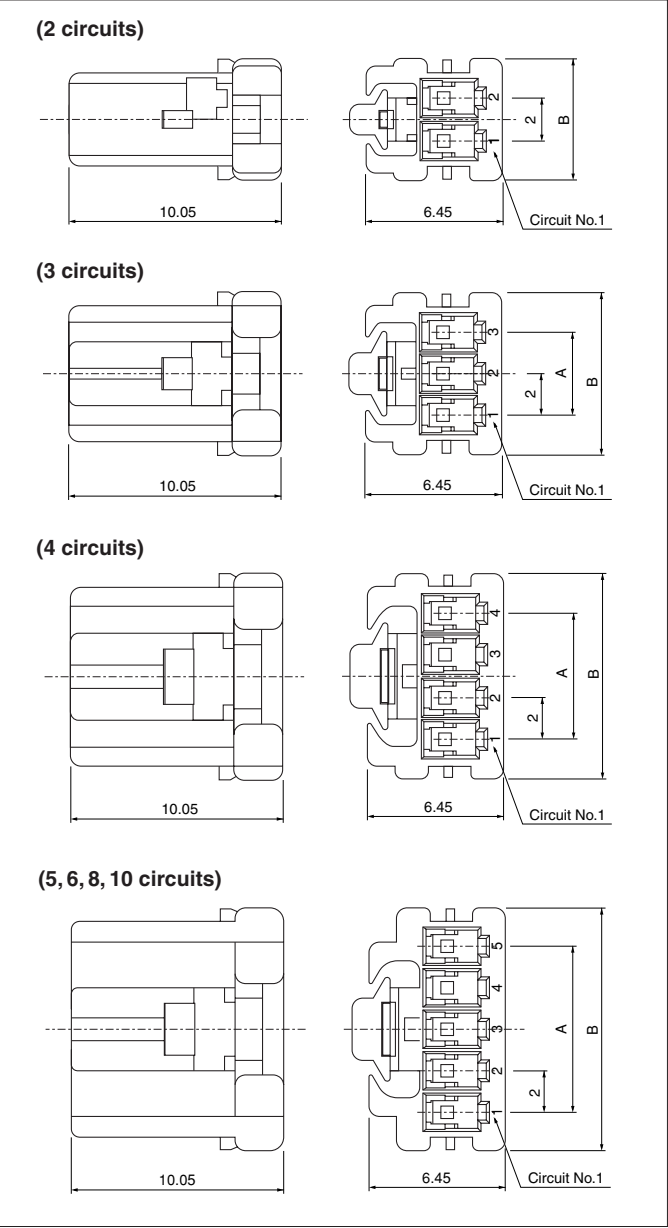
PA 66, UL94V-0, natural (white)

RoHS compliance

Note: C and D dimensions: Panel layout dimensions

PNI CONNECTOR

Socket housing (for socket contact)

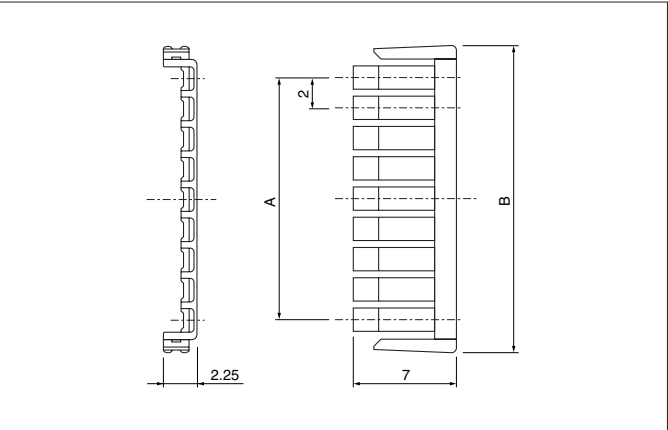


Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	PNIRP-02V-S	—	5.7	1,000
3	PNIRP-03V-S	4.0	7.7	1,000
4	PNIRP-04V-S	6.0	9.7	1,000
5	PNIRP-05V-S	8.0	11.7	1,000
6	PNIRP-06V-S	10.0	13.7	1,000
8	PNIRP-08V-S	14.0	17.7	1,000
10	PNIRP-10V-S	18.0	21.7	1,000

Material	
Glass-filled PBT, UL94V-0, natural (white)	

RoHS compliance

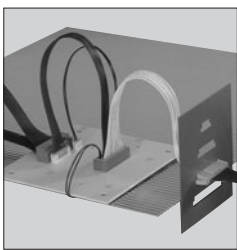
Retainer



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	PNIS-02V	—	6.3	1,000
3	PNIS-03V	4.0	8.3	1,000
4	PNIS-04V	6.0	10.3	1,000
5	PNIS-05V	8.0	12.3	1,000
6	PNIS-06V	10.0	14.3	1,000
8	PNIS-08V	14.0	18.3	1,000
10	PNIS-10V	18.0	22.3	1,000

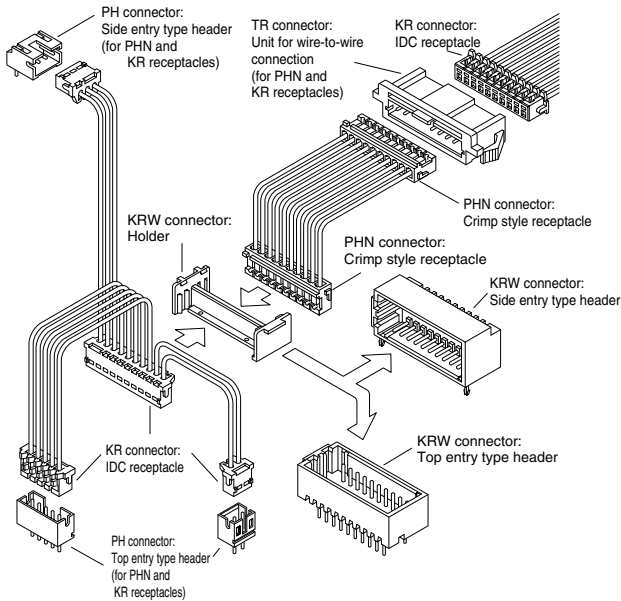
Material	
Glass-filled PA 66, UL94V-0, natural (ivory)	

RoHS compliance



KR FAMILY SERIES/KRW·KR·PHN·TR CONNECTOR

2.0mm pitch/Disconnectable Insulation displacement and Crimp style connectors



Based upon JST's field proven KR series connectors, the KR series family of connectors have been expanded to meet the requirements of high density packaging. The KRW connector allows double-row wire-to-board connection using either the KR or PHN connectors. Whilst the TR connector allows wire-to-wire connection, also using either the KR or PHN connectors.

- **Multi-IDC-harnesses are possible**
- **Various types of connectors**
- **Cost reduction**
- **Two types of circuit layouts**

Specifications

Item	Series	KRW connector	TR · TRW connector
Current rating		1.0 A AC,DC (AWG #26)	
Voltage rating		100 V AC,DC	
Temperature rise		-25°C to +85°C (including temperature rise)	
Contact resistance		initial/10 mΩ max. After environmental tests/20 mΩ max.	
Insulation resistance		1,000 MΩ min.	
Withstanding voltage		800 VAC/minute	
Applicable connector		KR connector, CR connector, PHN connector	
Applicable PC board thickness		1.6 mm	—
Applicable panel thickness		—	0.5 mm to 2 mm

- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Compliant with RoHS.

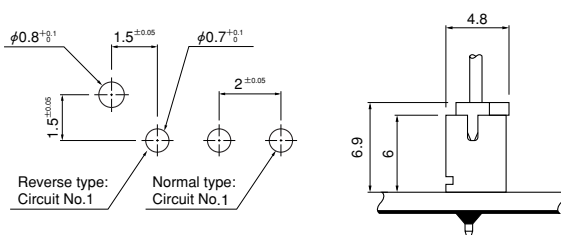
Standards

- ⚡ Recognized E60389
- Ⓢ Certified LR20812
- ⚠ R75087: PH, PHN connectors

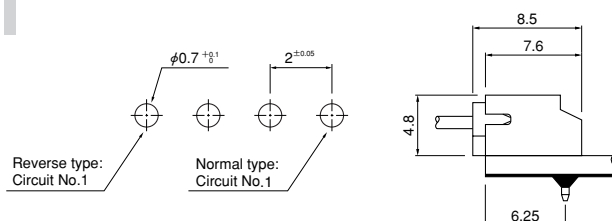
Single-row shrouded header

<Through-hole type(viewed from component side)>

Top entry type



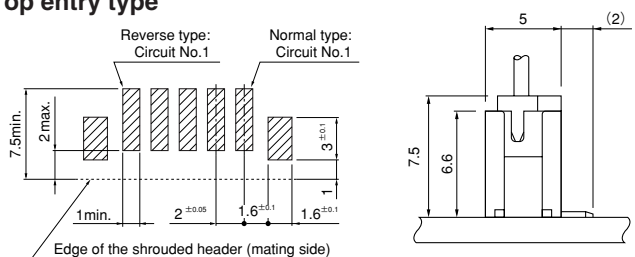
Side entry type



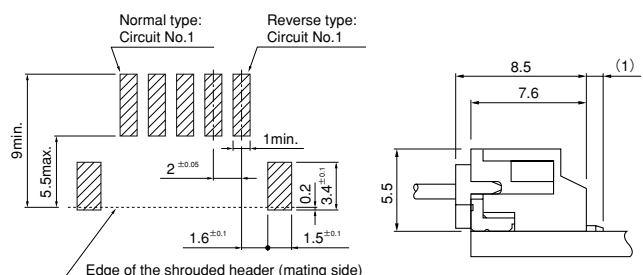
Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
2. Hole dimensions differ according to the type of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

<SMTtype(viewed from soldering side)>

Top entry type



Side entry type

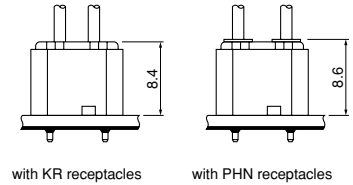
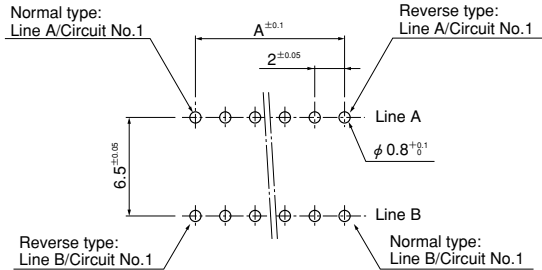


Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

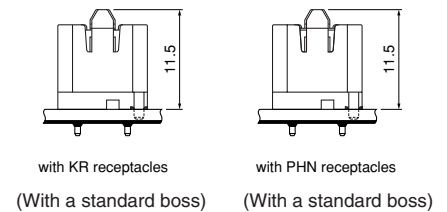
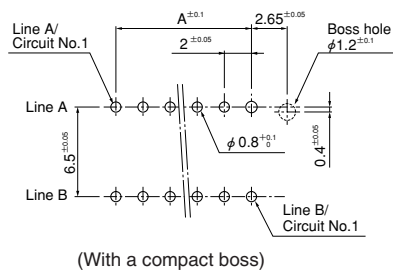
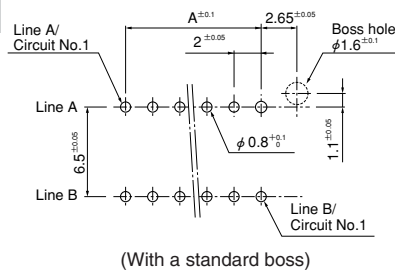
KR FAMILY SERIES/KRW·KR·PHN·TR CONNECTOR

Double-row shrouded header (viewed from component side)

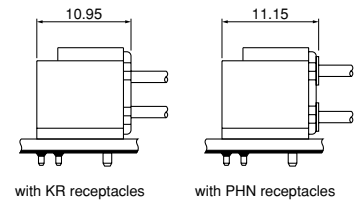
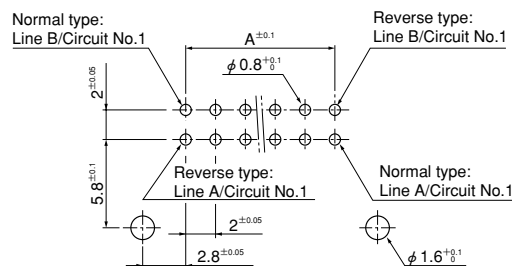
Top entry type



With locks



Side entry type

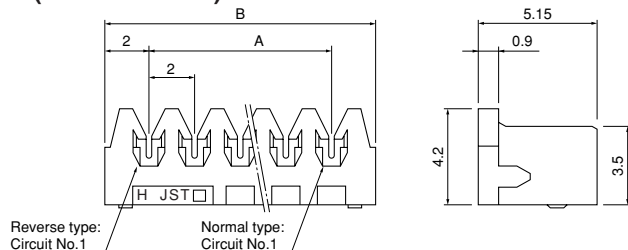


Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.

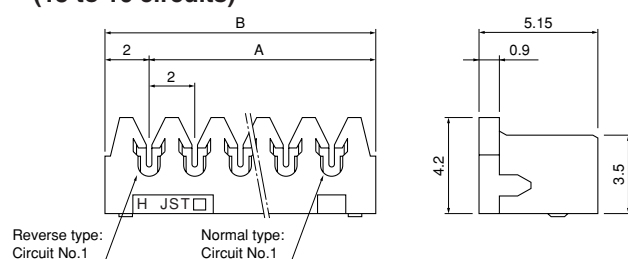
2. Hole dimensions differ according to the type of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Insulation displacement connector (Receptacle)

(2 to 12 circuits)



(13 to 16 circuits)



Circuits	Model No.		Dimensions (mm)		Qty / box
	Normal type	Reverse type	A	B	
2	02KR-6H-P	02KR-6H-PC	2.0	6.0	2,000
3	03KR-6H-P	03KR-6H-PC	4.0	8.0	2,000
4	04KR-6H-P	04KR-6H-PC	6.0	10.0	2,000
5	05KR-6H-P	05KR-6H-PC	8.0	12.0	2,000
6	06KR-6H-P	06KR-6H-PC	10.0	14.0	2,000
7	07KR-6H-P	07KR-6H-PC	12.0	16.0	1,000
8	08KR-6H-P	08KR-6H-PC	14.0	18.0	1,000
9	09KR-6H-P	09KR-6H-PC	16.0	20.0	1,000
10	10KR-6H-P	10KR-6H-PC	18.0	22.0	1,000
11	11KR-6H-P	11KR-6H-PC	20.0	24.0	1,000
12	12KR-6H-P	12KR-6H-PC	22.0	26.0	1,000
13	13KR-6H-P	13KR-6H-PC	24.0	28.0	500
14	14KR-6H-P	14KR-6H-PC	26.0	30.0	500
15	15KR-6H-P	15KR-6H-PC	28.0	32.0	500
16	16KR-6H-P	16KR-6H-PC	30.0	34.0	500

Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: 2 to 12 circuits...PA 66, UL94V-0, gray
13 to 16 circuits...Glass-filled PA 66, UL94V-0, gray

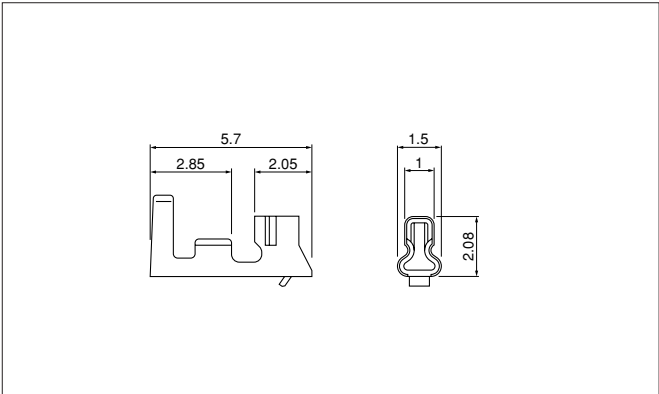
Applicable wire

UL1571, 1061(Contact JST for other UL styles.)
AWG#28, #26
Conductor / 7 strands, tin-plated annealed copper
Insulation O.D. / 0.9 to 1.0mm

RoHS compliance

KR FAMILY SERIES/KRW·KR·PHN·TR CONNECTOR

Crimp style connector (Contact)



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm²	AWG#		
SPH-002T-P0.5L	0.08~0.22	28~24	0.8~1.5	8,000

Material and Finish

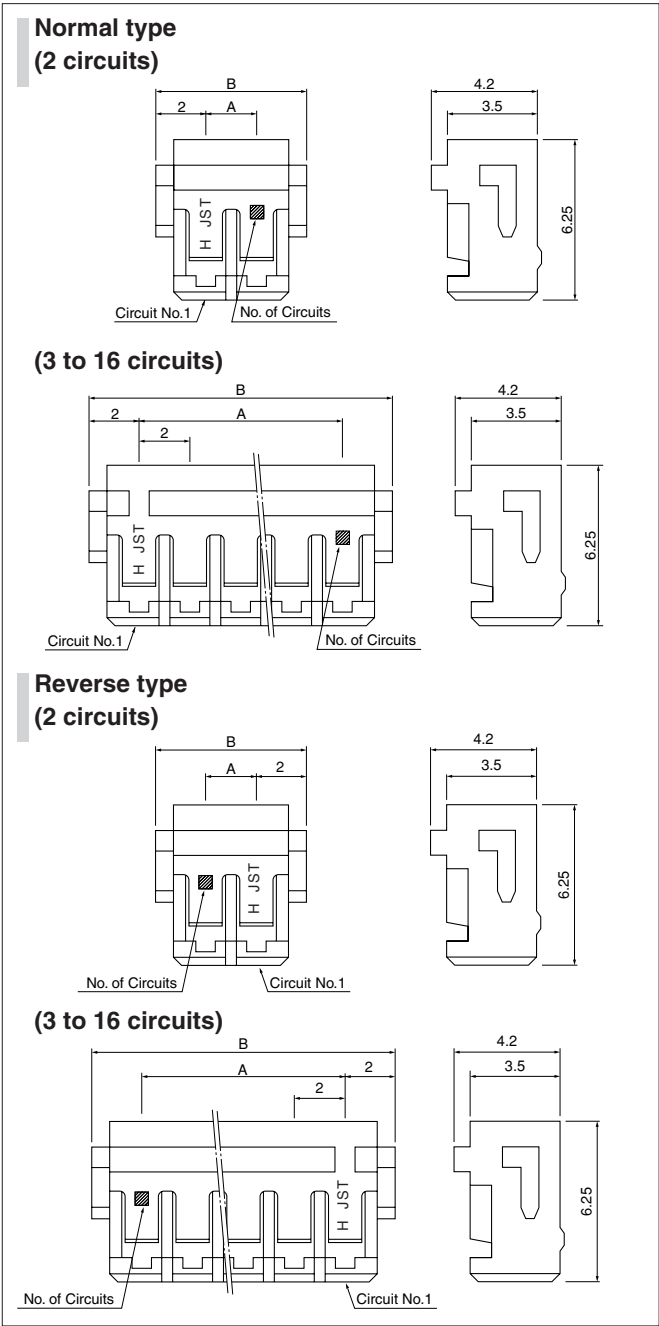
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance
Note: SPH-002T-P0.5S is also available.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPH-002T-P0.5L	AP-K2N	MKS-L	MK/SPH-002-05L	APLMK SPH002-05L
		*MKS-SC	SC/SPH-002-05L	APLSC SPH002-05L

Note: *Strip-crimp applicator

Crimp style connector (Housing)



Circuits	Model No.		Dimensions (mm)		Q'ty / bag
	Normal type	Reverse type	A	B	
2	PHNR-02-H	PHNR-02C-H	2.0	6.0	1,000
3	PHNR-03-H	PHNR-03C-H	4.0	8.0	1,000
4	PHNR-04-H	PHNR-04C-H	6.0	10.0	1,000
5	PHNR-05-H	PHNR-05C-H	8.0	12.0	1,000
6	PHNR-06-H	PHNR-06C-H	10.0	14.0	1,000
7	PHNR-07-H	PHNR-07C-H	12.0	16.0	1,000
8	PHNR-08-H	PHNR-08C-H	14.0	18.0	1,000
9	PHNR-09-H	PHNR-09C-H	16.0	20.0	1,000
10	PHNR-10-H	PHNR-10C-H	18.0	22.0	1,000
11	PHNR-11-H	PHNR-11C-H	20.0	24.0	1,000
12	PHNR-12-H	PHNR-12C-H	22.0	26.0	1,000
13	PHNR-13-H	PHNR-13C-H	24.0	28.0	1,000
14	PHNR-14-H	PHNR-14C-H	26.0	30.0	1,000
15	PHNR-15-H	PHNR-15C-H	28.0	32.0	1,000
16	PHNR-16-H	PHNR-16C-H	30.0	34.0	1,000

Material

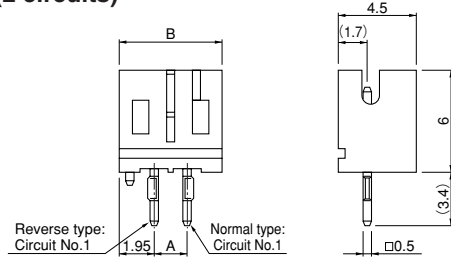
PA 66, UL94V-0, gray

RoHS compliance

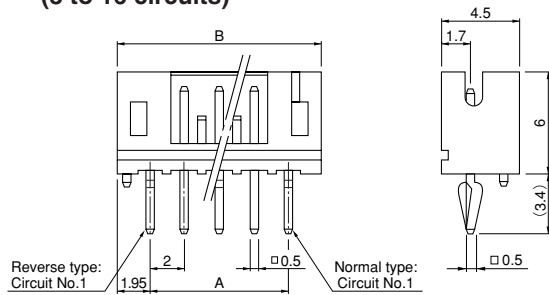
KR FAMILY SERIES/KRW·KR·PHN·TR CONNECTOR

Single-row shrouded header (Through-hole type)

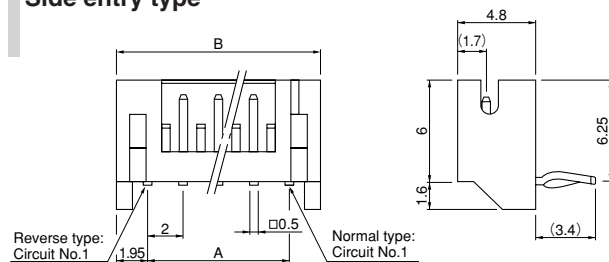
Top entry type (2 circuits)



(3 to 16 circuits)



Side entry type



Circuits	Normal type Model No.		Dimensions(mm)		Q'ty / box	
	Top entry type (with boss)	Side entry type	A	B	Top entry type (with a boss)	Side entry type
2	B2B-PH-KBL-H	S2B-PH-KL	2.0	5.9	1,000	1,000
3	B3B-PH-KBL-H	S3B-PH-KL	4.0	7.9	1,000	1,000
4	B4B-PH-KBL-H	S4B-PH-KL	6.0	9.9	1,000	500
5	B5B-PH-KBL-H	S5B-PH-KL	8.0	11.9	1,000	500
6	B6B-PH-KBL-H	S6B-PH-KL	10.0	13.9	1,000	500
7	B7B-PH-KBL-H	S7B-PH-KL	12.0	15.9	500	500
8	B8B-PH-KBL-H	S8B-PH-KL	14.0	17.9	500	250
9	B9B-PH-KBL-H	S9B-PH-KL	16.0	19.9	500	250
10	B10B-PH-KBL-H	S10B-PH-KL	18.0	21.9	500	250
11	B11B-PH-KBL-H	S11B-PH-KL	20.0	23.9	500	250
12	B12B-PH-KBL-H	S12B-PH-KL	22.0	25.9	500	250
13	B13B-PH-KBL-H	S13B-PH-KL	24.0	27.9	250	250
14	B14B-PH-KBL-H	S14B-PH-KL	26.0	29.9	250	200
15	B15B-PH-KBL-H	S15B-PH-KL	28.0	31.9	250	200
16	B16B-PH-KBL-H	S16B-PH-KL	30.0	33.9	250	200

Circuits	Reverse type Model No.		Dimensions(mm)		Q'ty / box	
	Top entry type (with boss)	Side entry type	A	B	Top entry type (with a boss)	Side entry type
2	B2B-PH-KBLC-H	S2B-PH-KLC-H	2.0	5.9	1,000	1,000
3	B3B-PH-KBLC-H	S3B-PH-KLC-H	4.0	7.9	1,000	1,000
4	B4B-PH-KBLC-H	S4B-PH-KLC-H	6.0	9.9	1,000	500
5	B5B-PH-KBLC-H	S5B-PH-KLC-H	8.0	11.9	1,000	500
6	B6B-PH-KBLC-H	S6B-PH-KLC-H	10.0	13.9	1,000	500
7	B7B-PH-KBLC-H	S7B-PH-KLC-H	12.0	15.9	500	500
8	B8B-PH-KBLC-H	S8B-PH-KLC-H	14.0	17.9	500	250
9	B9B-PH-KBLC-H	S9B-PH-KLC-H	16.0	19.9	500	250
10	B10B-PH-KBLC-H	S10B-PH-KLC-H	18.0	21.9	500	250
11	B11B-PH-KBLC-H	S11B-PH-KLC-H	20.0	23.9	500	250
12	B12B-PH-KBLC-H	S12B-PH-KLC-H	22.0	25.9	500	250
13	B13B-PH-KBLC-H	S13B-PH-KLC-H	24.0	27.9	250	250
14	B14B-PH-KBLC-H	S14B-PH-KLC-H	26.0	29.9	250	200
15	B15B-PH-KBLC-H	S15B-PH-KLC-H	28.0	31.9	250	200
16	B16B-PH-KBLC-H	S16B-PH-KLC-H	30.0	33.9	250	200

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, gray

RoHS compliance This product displays (LF)(SN) on a label.

Note: 1. Top entry type headers without a bosses are also available.

2. PH connector header [B()B-PH-K-S, S()B-PH-K-S] can be also used.
() stands for circuits No.

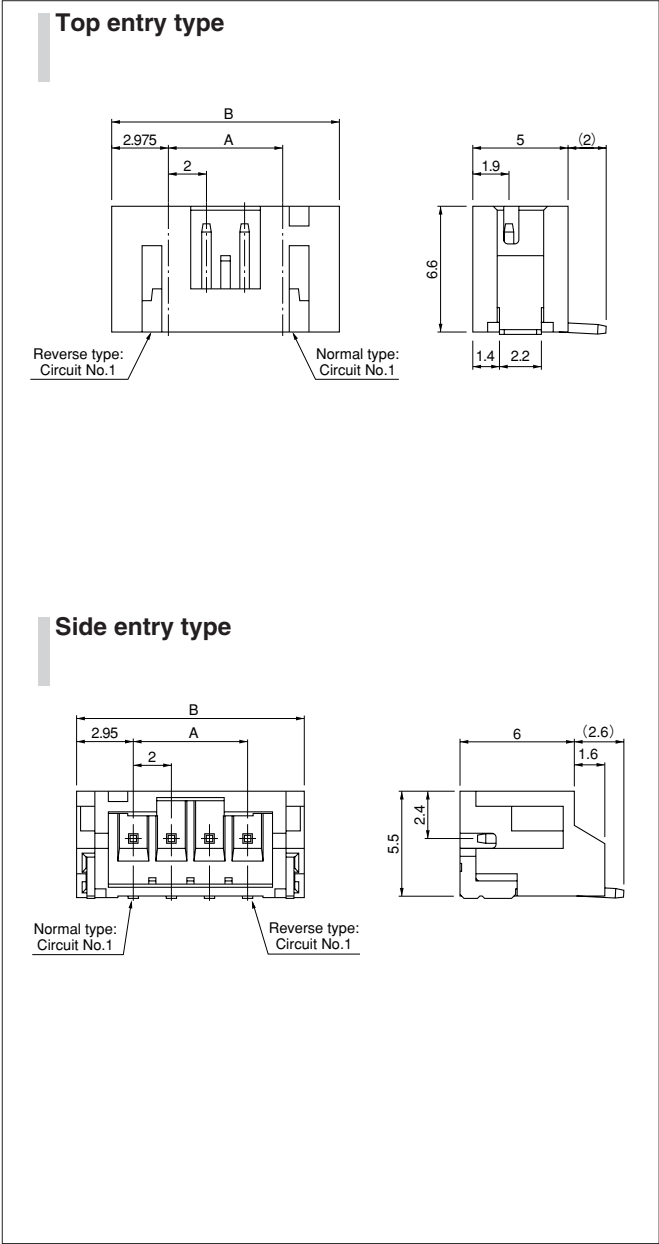
<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **B2B-PH-KBLC-H**

H...gray S...white Y...yellow R...red N...brown
K...black (blank)...gray (normal side entry type only)

KR FAMILY SERIES/KRW·KR·PHN·TR CONNECTOR

Single-row shrouded header (SMT type)



Circuits	Normal type Model No.		Dimensions (mm)			Q'ty / reel
			A	B		
	Top entry type	Side entry type		Top entry type	Side entry type	
2	B2B-PH-SM4-TB	S2B-PH-SM4-TB	2.0	7.95	7.9	1,000
3	B3B-PH-SM4-TB	S3B-PH-SM4-TB	4.0	9.95	9.9	1,000
4	B4B-PH-SM4-TB	S4B-PH-SM4-TB	6.0	11.95	11.9	1,000
5	B5B-PH-SM4-TB	S5B-PH-SM4-TB	8.0	13.95	13.9	1,000
6	B6B-PH-SM4-TB	S6B-PH-SM4-TB	10.0	15.95	15.9	1,000
7	B7B-PH-SM4-TB	S7B-PH-SM4-TB	12.0	17.95	17.9	1,000
8	B8B-PH-SM4-TB	S8B-PH-SM4-TB	14.0	19.95	19.9	1,000
9	B9B-PH-SM4-TB	S9B-PH-SM4-TB	16.0	21.95	21.9	1,000
10	B10B-PH-SM4-TB	S10B-PH-SM4-TB	18.0	23.95	23.9	1,000
11	B11B-PH-SM4-TB	S11B-PH-SM4-TB	20.0	25.95	25.9	1,000
12	B12B-PH-SM4-TB	S12B-PH-SM4-TB	22.0	27.95	27.9	1,000
13	B13B-PH-SM4-TB	S13B-PH-SM4-TB	24.0	29.95	29.9	1,000
14	B14B-PH-SM4-TB	S14B-PH-SM4-TB	26.0	31.95	31.9	1,000
15	B15B-PH-SM4-TB	S15B-PH-SM4-TB	28.0	33.95	33.9	1,000
16	B16B-PH-SM4-TB	—	30.0	35.95	—	1,000

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 6T, UL94V-0, natural (ivory)
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.
Note: Top entry type headers with suction tape are also available.

Circuits	Reverse type Model No.		Dimensions (mm)		Q'ty / reel
	Top entry type	Side entry type	A	B	
2	B2B-PH-SM4C-TB	S2B-PH-SM4C-TB	2.0	7.9	1,000
3	B3B-PH-SM4C-TB	S3B-PH-SM4C-TB	4.0	9.9	1,000
4	B4B-PH-SM4C-TB	S4B-PH-SM4C-TB	6.0	11.9	1,000
5	B5B-PH-SM4C-TB	S5B-PH-SM4C-TB	8.0	13.9	1,000
6	B6B-PH-SM4C-TB	S6B-PH-SM4C-TB	10.0	15.9	1,000
7	B7B-PH-SM4C-TB	S7B-PH-SM4C-TB	12.0	17.9	1,000
8	B8B-PH-SM4C-TB	S8B-PH-SM4C-TB	14.0	19.9	1,000
9	B9B-PH-SM4C-TB	S9B-PH-SM4C-TB	16.0	21.9	1,000
10	B10B-PH-SM4C-TB	S10B-PH-SM4C-TB	18.0	23.9	1,000
11	B11B-PH-SM4C-TB	S11B-PH-SM4C-TB	20.0	25.9	1,000
12	B12B-PH-SM4C-TB	S12B-PH-SM4C-TB	22.0	27.9	1,000
13	B13B-PH-SM4C-TB	S13B-PH-SM4C-TB	24.0	29.9	1,000
14	B14B-PH-SM4C-TB	S14B-PH-SM4C-TB	26.0	31.9	1,000
15	B15B-PH-SM4C-TB	S15B-PH-SM4C-TB	28.0	33.9	1,000
16	B16B-PH-SM4C-TB	—	30.0	35.9	1,000

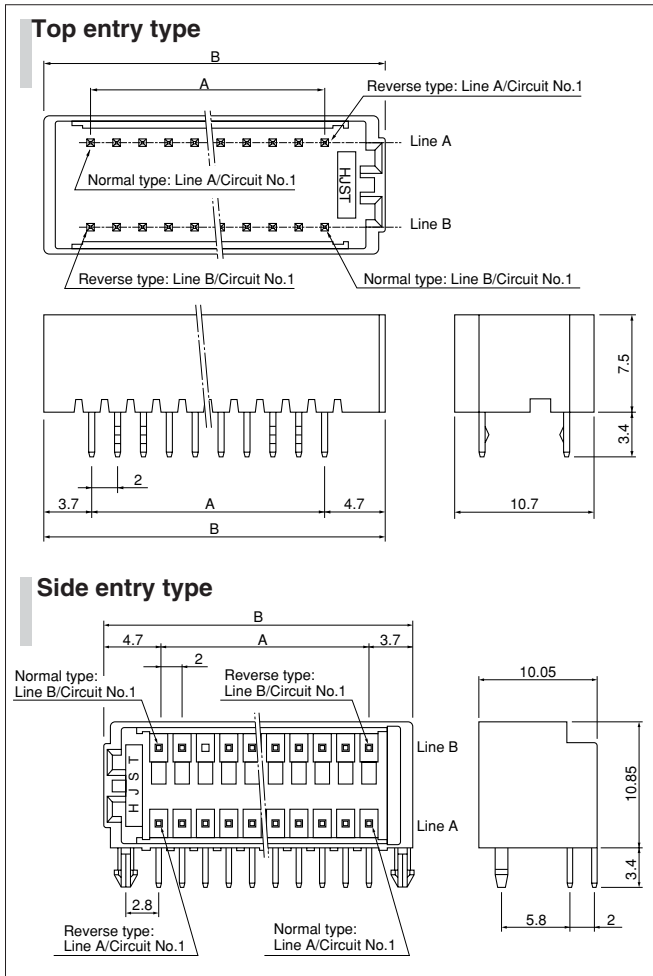
Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 6T, UL94V-0, natural (ivory)
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

KR FAMILY SERIES/KRW·KR·PHN·TR CONNECTOR

Double-row shrouded Header



Circuits	Model No.				Dimensions (mm)		Q'ty / box	
	Normal type		Reverse type		A	B	Top entry type	Side entry type
	Top entry type	Side entry type	Top entry type	Side entry type				
16	B16B-KRWHK	S16B-KRWHS	B16B-KRWHK-C	S16B-KRWHS-C	14.0	22.4	320	280
18	B18B-KRWHK	S18B-KRWHS	B18B-KRWHK-C	S18B-KRWHS-C	16.0	24.4	288	252
20	B20B-KRWHK	S20B-KRWHS	B20B-KRWHK-C	S20B-KRWHS-C	18.0	26.4	256	224
22	B22B-KRWHK	S22B-KRWHS	B22B-KRWHK-C	S22B-KRWHS-C	20.0	28.4	224	196
24	B24B-KRWHK	—	B24B-KRWHK-C	—	22.0	30.4	224	196
26	B26B-KRWHK	S26B-KRWHS	B26B-KRWHK-C	S26B-KRWHS-C	24.0	32.4	192	168
28	B28B-KRWHK	S28B-KRWHS	B28B-KRWHK-C	S28B-KRWHS-C	26.0	34.4	192	168
30	B30B-KRWHK	S30B-KRWHS	B30B-KRWHK-C	S30B-KRWHS-C	28.0	36.4	192	168
32	B32B-KRWHK	S32B-KRWHS	B32B-KRWHK-C	S32B-KRWHS-C	30.0	38.4	160	140

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, gray

RoHS compliance This product displays (LF)(SN) on a label.

Note: 1. Top entry type headers with bosses or without clinched tails are also available.

2. The products listed above are supplied packed in tray.

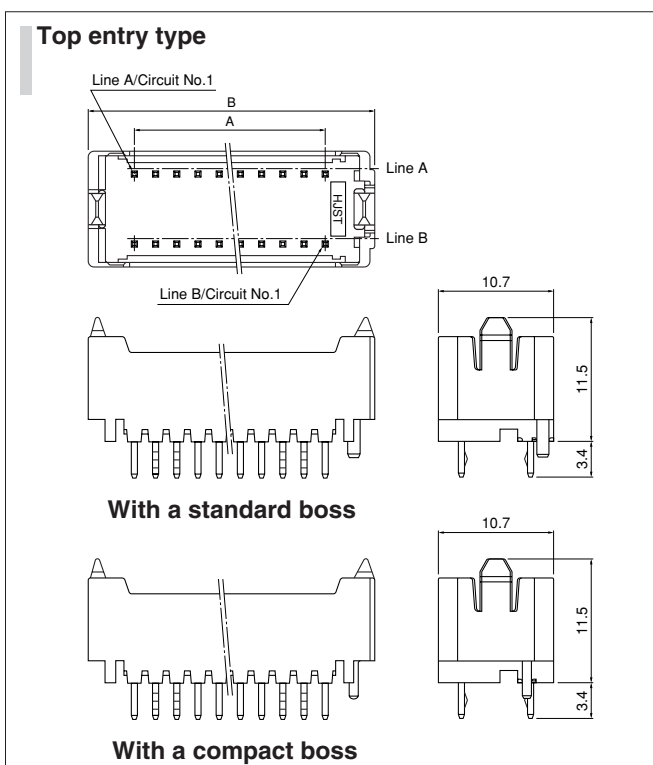
<For reference> As the color identification, the following alphabet shall be put in the underlined part.

For availability, delivery and minimum order quantity, contact JST.

ex. **B10B-KRWHK-()**

M...green H...gray N...brown

Double-row shrouded Header (with locks)



Circuits	Model No.			Dimensions (mm)		Q'ty / box
	Top entry type					
	Without bosses	With a standard boss	With a compact boss	A	B	
10	B10B-KRWHK-F1	B10B-KRWHK-F1-1	B10B-KRWHK-F1-1D	8.0	17.0	364
12	B12B-KRWHK-F1	B12B-KRWHK-F1-1	B12B-KRWHK-F1-1D	10.0	19.0	308
14	B14B-KRWHK-F1	B14B-KRWHK-F1-1	B14B-KRWHK-F1-1D	12.0	21.0	280
16	B16B-KRWHK-F1	B16B-KRWHK-F1-1	B16B-KRWHK-F1-1D	14.0	23.0	252
18	B18B-KRWHK-F1	B18B-KRWHK-F1-1	B18B-KRWHK-F1-1D	16.0	25.0	252
20	B20B-KRWHK-F1	B20B-KRWHK-F1-1	B20B-KRWHK-F1-1D	18.0	27.0	224
22	B22B-KRWHK-F1	B22B-KRWHK-F1-1	B22B-KRWHK-F1-1D	20.0	29.0	196
24	B24B-KRWHK-F1	B24B-KRWHK-F1-1	B24B-KRWHK-F1-1D	22.0	31.0	196
26	B26B-KRWHK-F1	B26B-KRWHK-F1-1	B26B-KRWHK-F1-1D	24.0	33.0	168
28	B28B-KRWHK-F1	B28B-KRWHK-F1-1	B28B-KRWHK-F1-1D	26.0	35.0	168
30	B30B-KRWHK-F1	B30B-KRWHK-F1-1	B30B-KRWHK-F1-1D	28.0	37.0	168
32	B32B-KRWHK-F1	B32B-KRWHK-F1-1	B32B-KRWHK-F1-1D	30.0	39.0	140

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, gray

RoHS compliance This product displays (LF)(SN) on a label.

Note: 1. The products listed above are supplied packed in tray.

2. Not UL/CSA/TÜV approved.

3. The applicable holder is "KRWHK-() ()-()-1" only.

<For reference> As the color identification, the following alphabet shall be put in the underlined part.

For availability, delivery and minimum order quantity, contact JST.

ex. **B10B-KRWHK-F1-()**

H...gray Y...yellow R...red N...brown

M...green K...black

KRW connector Holder

[illegible]

PA 66, UL94V-0, gray

Technical drawing of the JST connector housing, showing dimensions and labels for the top, side, and end views.

Top View Dimensions:

- Overall width: 9.7
- Overall height: 3
- Internal width (A): 0.7
- Internal height (B): 1
- Pin diameter: $\phi 1$
- Pin pitch: 0.5
- Pin offset: 0.3

Labels and Indications:

- Normal type: Line A/Circuit No.1
- Indication for Line A
- Line A
- Line B
- Indication for Line B
- Normal type: Line B/Circuit No.1
- JST

Side View Dimensions:

- Overall height: 0.8

End View Dimensions:

- Overall width: 9.7
- Overall height: 6.65

Material
PA 66, UL94V-0, gray

ex. **KRWH-10-H-1**
H...gray Y...yellow R...red N...brown K...black S...natural

Reverse type: Circuit No.1

Normal type: Circuit No.1

7.4

1.3

2

2.8

A

10.5

2

B

Secure locking

Panel layout

C ± 0.1

D ± 0.1

3.2 ± 0.1

6.4 ± 0.1

TR connectors without secure locking device are also available.

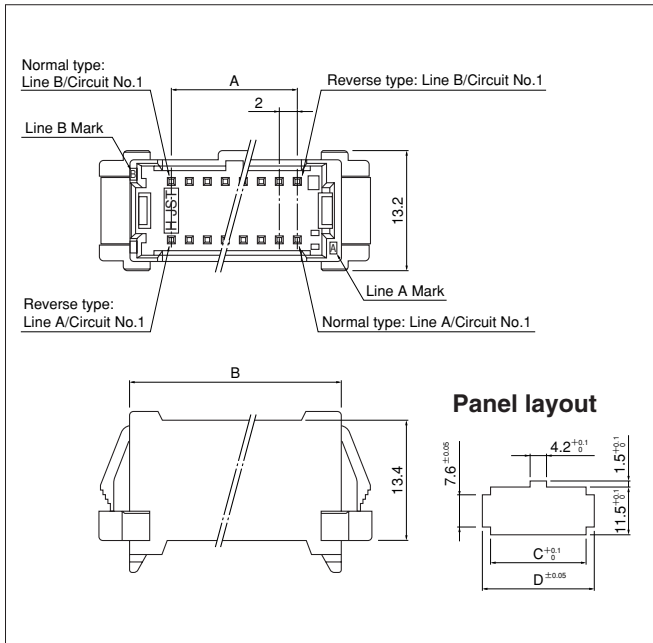
Material and Finish									
Part: Copper alloy, copper-undercoated, tin-plated (reflow treatment)									

Housing: PA 66, UL94V-0, gray

7 **JST**

KR FAMILY SERIES/KRW·KR·PHN·TR CONNECTOR

TRW connector (Unit for wire-to-wire connection)



Circuits	Model No.		Dimensions (mm)				Q'ty / box
	Normal type	Reverse type	A	B	C	D	
16	BU16P-TRW-P-H	BU16P-TRW-PC-H	14.0	23.5	23.9	27.5	100
18	BU18P-TRW-P-H	BU18P-TRW-PC-H	16.0	25.5	25.9	29.5	100
20	BU20P-TRW-P-H	BU20P-TRW-PC-H	18.0	27.5	27.9	31.5	50
22	BU22P-TRW-P-H	BU22P-TRW-PC-H	20.0	29.5	29.9	33.5	50
24	BU24P-TRW-P-H	BU24P-TRW-PC-H	22.0	31.5	31.9	35.5	50
26	BU26P-TRW-P-H	BU26P-TRW-PC-H	24.0	33.5	33.9	37.5	50
28	BU28P-TRW-P-H	BU28P-TRW-PC-H	26.0	35.5	35.9	39.5	50
30	BU30P-TRW-P-H	BU30P-TRW-PC-H	28.0	37.5	37.9	41.5	50
32	BU32P-TRW-P-H	BU32P-TRW-PC-H	30.0	39.5	39.9	43.5	50

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0, gray

RoHS compliance This product displays (LF)(SN) on a label.

<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

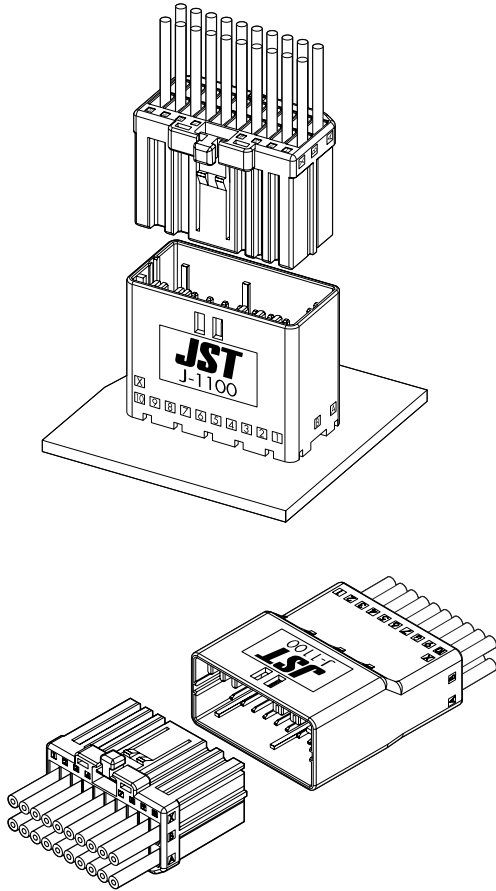
ex. **BU16P-TRW-P-H**

H...gray Y...yellow R...red N...brown
S...natural (white) M...green



JFA CONNECTOR J1000 SERIES

2.2mm pitch/Disconnectable Crimp style connectors(Wire-to-board/Wire-to-wire)



It is a high reliability connector corresponding to demand of the miniaturization of electronic equipment and the wire size of AWG#18.

- Double-spring construction
- Housing lance
- Clear "click feeling"

Specifications

- Current rating: Refer to the following matrix table.
- Voltage rating: 125V AC, DC
- Temperature range: -55°C to +105°C
(including temperature rise in applying electrical current)
- Applicable wire: AWG #28 to #18 (0.08 to 0.82mm²)
(Tin-plated annealed copper wire [stranded wire])
(Insulation O.D./0.85 to 2.1mm)
- Applicable PC board thickness: 1.6mm

*Contact JST for details.

*Compliant with RoHS.

Current rating

Unit: A

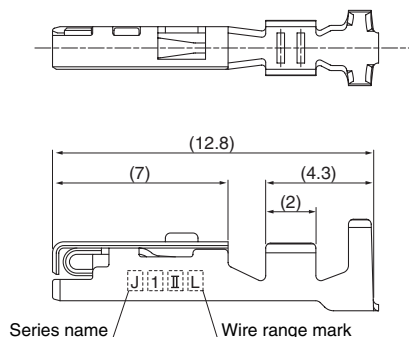
Circuits	Wire size (AWG)					
	#18	#20	#22	#24	#26	#28
1 (Note)	6.8	5.9	5.0	4.2	3.2	2.5
3	6.2	5.2	4.6	3.6	3.1	2.5
6	5.5	4.6	4.0	3.0	2.5	2.1
8	5.5	4.6	4.0	3.0	2.4	2.0
12	4.7	3.9	3.4	2.6	2.1	1.7
20	3.9	3.3	2.9	2.2	1.8	1.6

Note: Current rating value when applying only to 1-circuit of 3-circuit connector.

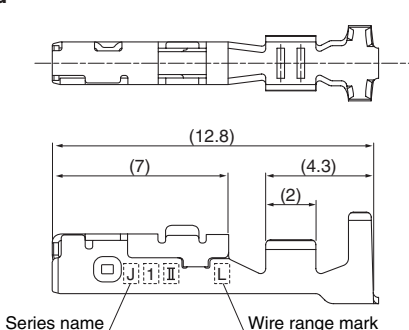
JFA CONNECTOR/J1000 SERIES

Receptacle contact

Tin-plated



Gold-plated



Strip contact Model No.	Applicable wire			Insulation O.D. (mm)	Q'ty / reel
	Nominal	mm ²	AWG#		
SF1F-002 (*) -P0.6	M	0.08~0.22	28~24	0.85~1.43	—
SF1F-21 (*) -P0.6	L	0.30~0.82	22~18	1.60~2.10	5,000

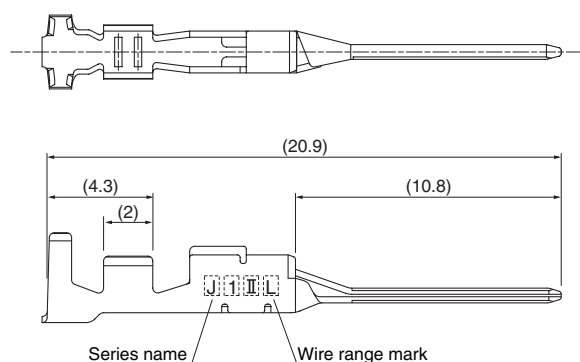
Material and Finish

Copper alloy, tin-plated, gold-plated

RoHS compliance

Note: Finish(*):TTin-plated
GC ...Gold-plated

Tab contact



Strip contact Model No.	Applicable wire			Insulation O.D. (mm)	Q'ty / reel
	Nominal	mm ²	AWG#		
SF1M-002 (*) -M0.6A	M	0.08~0.22	28~24	0.85~1.43	—
SF1M-21 (*) -M0.6A	L	0.30~0.82	22~18	1.60~2.10	5,000

Material and Finish

Copper alloy, tin-plated, gold-plated

RoHS compliance

Note: Finish(*):TTin-plated
GC ...Gold-plated

Crimping machine, Applicator

Strip contact Model No.	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies	Hand crimp tools
SF1F-002 (*) -P0.6	AP-K2N	MKS-L	MK/SF1F/M-002-06	APLMK SF1F/M002-06	Refer to page 15, 16.
SF1M-002 (*) -M0.6A		—	—	—	
SF1F-21 (*) -P0.6	AP-K2N	MKS-L	MK/SF1F/M-21-06	APLMK SF1F/M21-06	Refer to page 15, 16.
SF1M-21 (*) -M0.6A		—	—	—	

• Extraction tool for J1000 series: EJ-JFAJ1100

• Hand crimp tool uses the YRK series and refer to page 15, 16 of YRK series hand crimping tools for details.

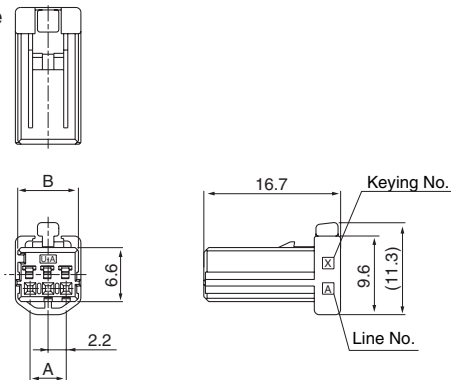
Note 1. Contact JST for fully automatic crimping applicator.

2. Finish(*):TTin-plated
GC ...Gold-plated

J1000 SERIES/J1100

Receptacle housing

Single-row type



Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
3	X	J11SF-03V-KX	4.4	7.4	1,200
	Y	J11SF-03V-KY	4.4	7.4	1,200

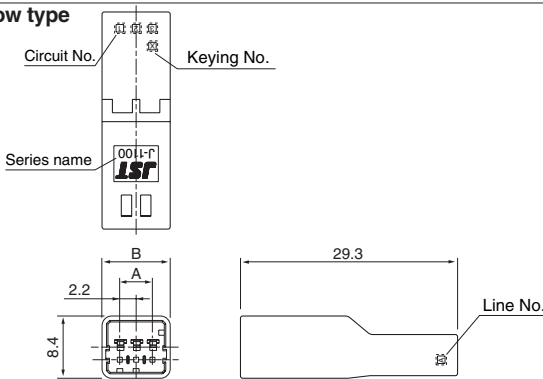
Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing

Single-row type



Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
3	X	J11SFM-03V-KX	4.4	9.2	500
	Y	J11SFM-03V-KY	4.4	9.2	500

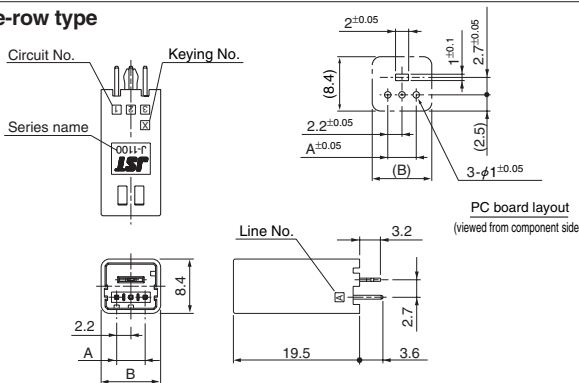
Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Header Top entry type (Center locking type)

Single-row type



Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
3	X	B03B-J11SK-(*)XR	4.4	9.2	625
	Y	B03B-J11SK-(*)YR	4.4	9.2	625

Material and Finish

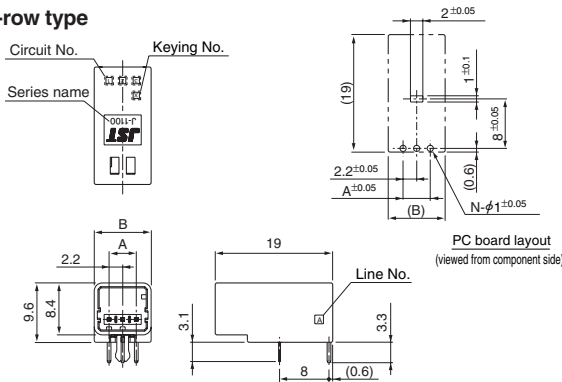
Post: Copper alloy, tin-plated, gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, tin-plated

RoHS compliance

Gold-plated product displays (LF) on a label.
Note: Finish(*):TTin-plated
GW ...Gold-plated

Header Side entry type (Center locking type)

Single-row type



Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
3	X	S03B-J11SK-(*)XR	4.4	9.2	600
	Y	S03B-J11SK-(*)YR	4.4	9.2	600

Material and Finish

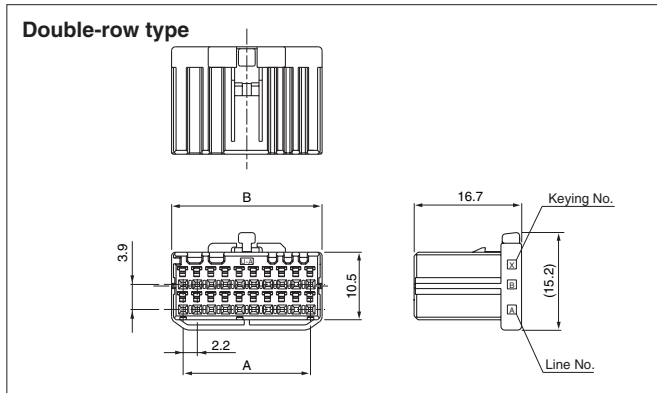
Post: Copper alloy, tin-plated, gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, tin-plated

RoHS compliance

Gold-plated product displays (LF) on a label.
Note: Finish(*):TTin-plated
GW ...Gold-plated

J1000 SERIES/J1100

Receptacle housing



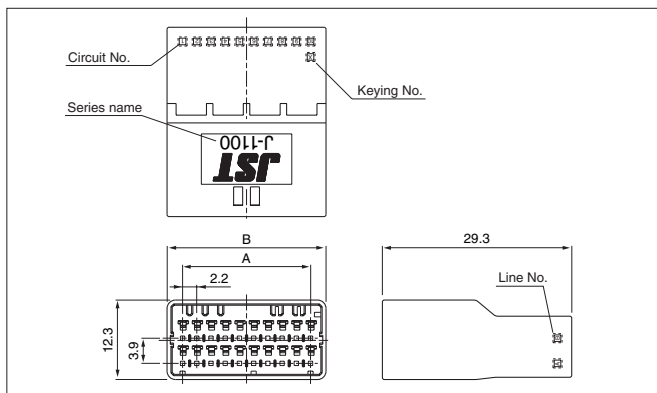
Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
6	X	J11DF-06V-KX	4.4	8.0	800
	Y	J11DF-06V-KY	4.4	8.0	800
8	X	J11DF-08V-KX	6.6	10.2	500
	Y	J11DF-08V-KY	6.6	10.2	500
12	X	J11DF-12V-KX	11.0	14.6	400
	Y	J11DF-12V-KY	11.0	14.6	400
20	X	J11DF-20V-KX	19.8	23.4	250
	Y	J11DF-20V-KY	19.8	23.4	250
22	X	J11DF-22V-KX	22.0	25.6	—
	Y	J11DF-22V-KY	22.0	25.6	—
26	X	J11DF-26V-KX	26.4	30.0	—
	Y	J11DF-26V-KY	26.4	30.0	—
30	X	J11DF-30V-KX	30.8	34.4	—
	Y	J11DF-30V-KY	30.8	34.4	—

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing



Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
6	X	J11DFM-06V-KX	4.4	9.2	400
8	X	J11DFM-08V-KX	6.6	11.4	300
12	X	J11DFM-12V-KX	11.0	15.8	200
20	X	J11DFM-20V-KX	19.8	24.6	150

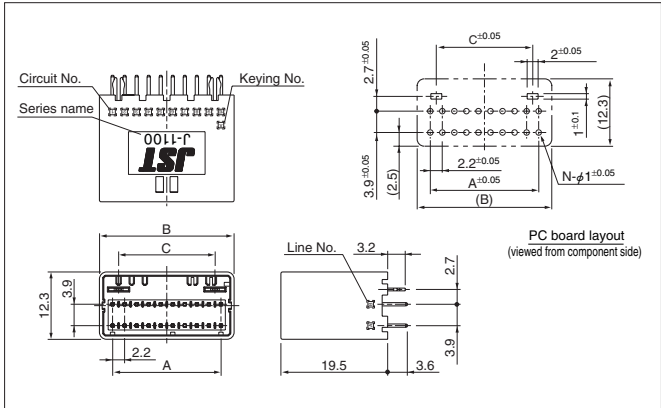
Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

J1000 SERIES/J1100

Header Top entry type (Center locking type)



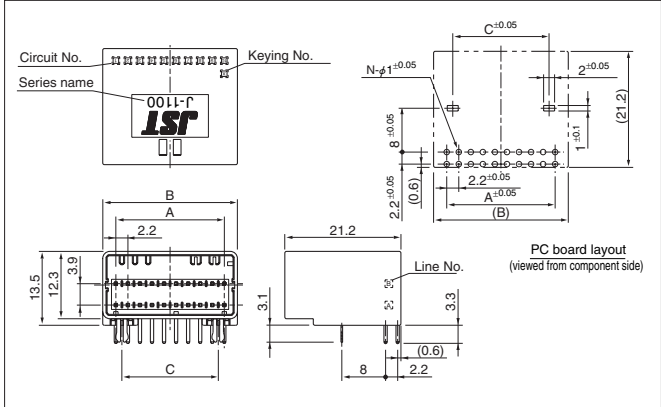
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
6	X	B06B-J11DK-(*)XR	4.4	9.2	—	500
	Y	B06B-J11DK-(*)YR	4.4	9.2	—	500
8	X	B08B-J11DK-(*)XR	6.6	11.4	4.4	400
	Y	B08B-J11DK-(*)YR	6.6	11.4	4.4	400
12	X	B12B-J11DK-(*)XR	11.0	15.8	8.8	280
	Y	B12B-J11DK-(*)YR	11.0	15.8	8.8	280
20	X	B20B-J11DK-(*)XR	19.8	24.6	17.6	180
	Y	B20B-J11DK-(*)YR	19.8	24.6	17.6	180
22	X	B22B-J11DK-(*)XR	22.0	26.8	19.8	—
	Y	B22B-J11DK-(*)YR	22.0	26.8	19.8	—
26	X	B26B-J11DK-(*)XR	26.4	31.2	24.2	—
	Y	B26B-J11DK-(*)YR	26.4	31.2	24.2	—
30	X	B30B-J11DK-(*)XR	30.8	35.6	28.6	—
	Y	B30B-J11DK-(*)YR	30.8	35.6	28.6	—

Material and Finish

Post: Copper alloy, tin-plated, gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, tin-plated

RoHS compliance Gold-plated product displays (LF) on a label.
Note: Finish(*):TTin-plated
GW ...Gold-plated

Header Side entry type (Center locking type)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
6	X	S06B-J11DK-(*)XR	4.4	9.2	—	375
	Y	S06B-J11DK-(*)YR	4.4	9.2	—	375
8	X	S08B-J11DK-(*)XR	6.6	11.4	—	300
	Y	S08B-J11DK-(*)YR	6.6	11.4	—	300
12	X	S12B-J11DK-(*)XR	11.0	15.8	8.8	225
	Y	S12B-J11DK-(*)YR	11.0	15.8	8.8	225
20	X	S20B-J11DK-(*)XR	19.8	24.6	17.6	135
	Y	S20B-J11DK-(*)YR	19.8	24.6	17.6	135

Material and Finish

Post: Copper alloy, tin-plated, gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, tin-plated

RoHS compliance Gold-plated product displays (LF) on a label.
Note: Finish(*):TTin-plated
GW ...Gold-plated

JFA CONNECTOR/J1000 SERIES

Model number identification

Receptacle contact

S F1 F - 21 T - P 0.6

Form: S...Strip form

Series name

Kind of terminal: F...Receptacle contact

Applicable wire: 002...AWG#28 ~ AWG#24
21...AWG#22 ~ AWG#18

Surface finish: T...Tin-plated, GC...Gold-plated

Material: P...Copper alloy

Terminal size

Tab contact

S F1 M - 21 T - M 0.6 A

Form: S...Strip form

Series name

Kind of terminal: M...Tab contact

Applicable wire: 002...AWG#28 ~ AWG#24
21...AWG#22 ~ AWG#18

Surface finish: T...Tin-plated, GC...Gold-plated

Material: M...Copper alloy

Terminal size

Auxiliary mark

Receptacle housing

J11 DF - 06 V - K X

Series name

Type of connector: SF...Single-row type
DF...Double-row type

No. of circuits: 3, 6, 8, 12, 20

Flammability: V...UL94V-0

Color indication: K...Black

Keying: X...X-Keying, Y...Y-Keying

Tab housing

J11 DFM - 06 V - K X

Series name

Type of connector: SFM...Single-row type
DFM...Double-row type

No. of circuits: 3, 6, 8, 12, 20

Flammability: V...UL94V-0

Color indication: K...Black

Keying: X...X-Keying

Header

B 06 B - J11 D K - T X R

PC board mounting direction:
B...Top entry type, S...Side entry type

No. of circuits: 3, 6, 8, 12, 20

Product name: Header

Series name

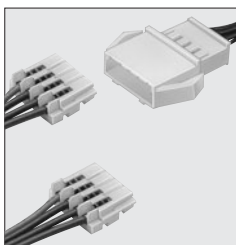
Rows: S...Single-row, D...Double-row

Color indication: K...Black

Surface finish: T...Tin-plated, GW...Gold-plated

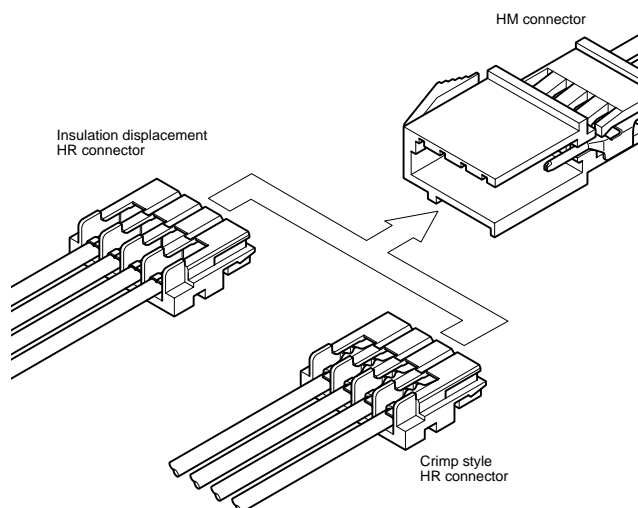
Keying: X...X-Keying, Y...Y-Keying

Packaging form: R...Tray, M...Magazine stick



HM CONNECTOR

2.5mm pitch/Wire-to-wire connectors - Matable with HR receptacles



- **Both crimp style and insulation displacement receptacles can be used**
- **Housing-to-terminal locks**
- **Mountable on a variety of panels**
- **Highly reliable housing construction**

Specifications

- Current rating: Crimp style HR connectors type
3A AC, DC max.
Insulation displacement HR connectors type
2A AC, DC max.
- Voltage rating: 250V AC, DC max. (See Note below.)
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 1,000V AC/minute
- Applicable wire: AWG #26 to #22
0.13 to 0.33mm²
- Applicable panel thickness: 0.8 to 1.6mm

Note: Contacts are exposed at the housing lances.

Care should be taken so that these parts do not touch the metal section of the chassis.

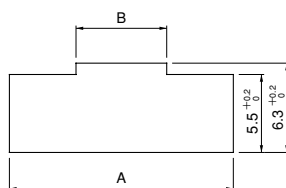
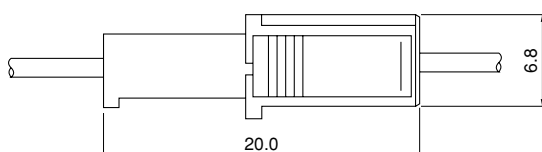
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

Recognized E60389

Certified LR20812

Panel layout and Assembly layout



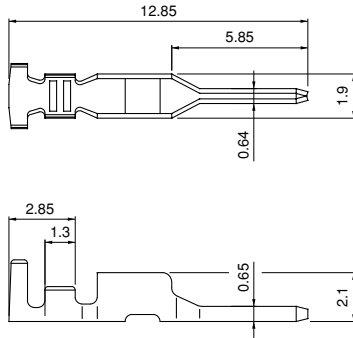
Circuits	Housing	Panel hole dimensions (mm) General tolerance		Applicable panel thickness (mm)
		A $\begin{smallmatrix} +0.2 \\ 0 \end{smallmatrix}$	B $\begin{smallmatrix} +0.2 \\ 0 \end{smallmatrix}$	
2	HMR-02V	13.3	3.9	0.8 ~ 1.6
3	HMR-03V	15.8	6.4	
4	HMR-04V	18.3	8.9	
8	HMR-08V	28.3	18.9	
12	HMR-12V	38.3	28.9	

- Note: 1. Punch holes in the panel according to the sketch and table shown above. Burrs must be removed.*
2. The strength of the panel must be considered when punching two or more holes.
3. The connector must be inserted from the same side as the hole is punched.

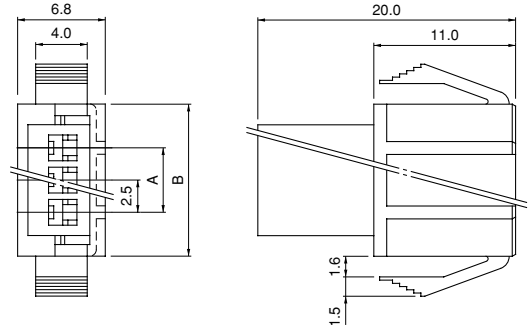
HM CONNECTOR

Plug / HM connector

Contact



Housing



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SMR-001T-0.6	0.13~0.33	26~22	1.3~1.7	9,000

Material and Finish

Brass, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SMR-001T-0.6	AP-K2N	MKS-L	MK/SHR/MR-001-06	APLMK SHR/MR001-06
		*MKS-SC	SC/SHR/MR-001-06	APLSC SHR/MR001-06

Note: *Strip-crimp applicator

Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	HMR-02V	2.5	9.3	1,000
3	HMR-03V	5.0	11.8	500
4	HMR-04V	7.5	14.3	500
8	HMR-08V	17.5	24.3	500
12	HMR-12V	27.5	34.3	500

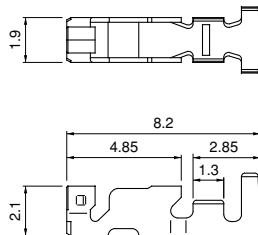
Material

PA 66, UL94V-0

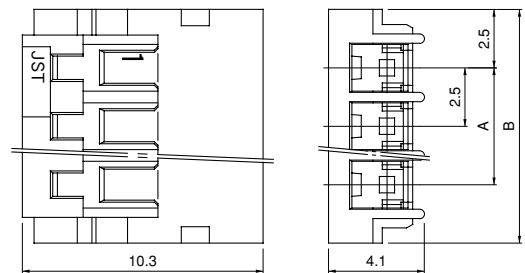
RoHS compliance

Receptacle / Crimp style HR connector

Contact



Housing



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SHR-001T-P0.6	0.13~0.33	26~22	1.3~1.7	9,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SHR-001T-P0.6	AP-K2N	MKS-L	MK/SHR/MR-001-06	APLMK SHR/MR001-06
		*MKS-SC	SC/SHR/MR-001-06	APLSC SHR/MR001-06

Note: *Strip-crimp applicator

Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	HRP-02-S	2.5	7.5	2,000
3	HRP-03-S	5.0	10.0	2,000
4	HRP-04-S	7.5	12.5	1,000
8	HRP-08-S	17.5	22.5	500
12	HRP-12-S	27.5	32.5	500

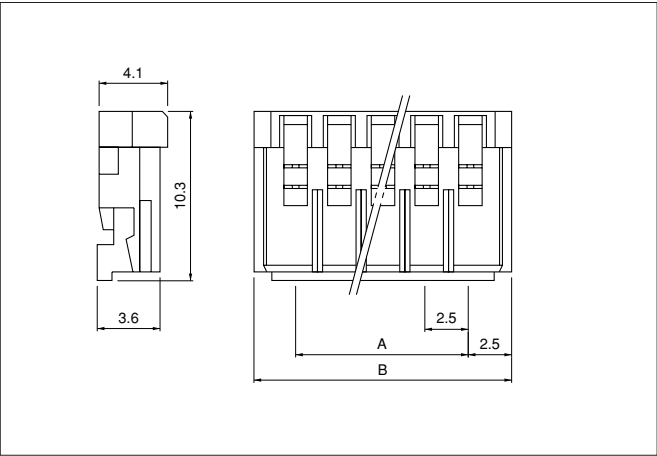
Material

PA 66, UL94V-0

RoHS compliance

HM CONNECTOR

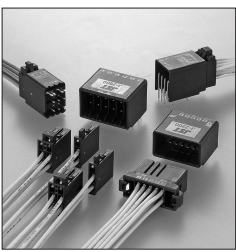
Receptacle/Insulation displacement HR connector



Circuits	Model No.			Dimensions (mm)		Q'ty / bag
	# 28	# 26	# 24	A	B	
2	02HR-8M-P-N	02HR-6S-P-N	02HR-4K-P-N	2.5	7.5	1,000
3	03HR-8M-P-N	03HR-6S-P-N	03HR-4K-P-N	5.0	10.0	1,000
4	04HR-8M-P-N	04HR-6S-P-N	04HR-4K-P-N	7.5	12.5	1,000
8	08HR-8M-P-N	08HR-6S-P-N	08HR-4K-P-N	17.5	22.5	500
12	12HR-8M-P-N	12HR-6S-P-N	12HR-4K-P-N	27.5	32.5	500

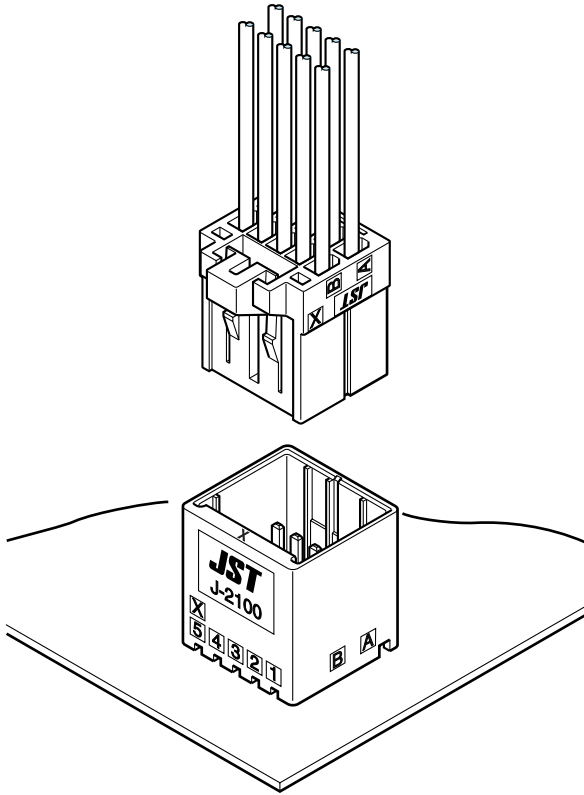
Material and Finish						
Contact: Phosphor bronze, tin-plated (reflow treatment)						
Housing: PA 66, UL94V-0						

RoHS compliance



JFA CONNECTOR J2000 SERIES

2.5mm pitch/Disconnectable Crimp style connectors(Wire-to-board/Wire-to-wire)



2.5mm pitch connector for miniaturization of electronic equipment.

Center locking or side locking options can be used depending on the required application.

Receptacle contacts are designed to be common with all JFA connector J2000 series.

- Double-spring construction
- 2 kinds of locking method
- Housing lance
- Clear "click feeling"

Specifications

- Current rating: 4.6A max. AC, DC (3 circuits/AWG #20)
- Voltage rating: 250V AC, DC
- Temperature range: -55°C to +105°C
(including temperature rise in applying electrical current)
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #28 to #20 (0.08 to 0.75mm²)
- Applicable PC board thickness: 1.6mm

*Contact JST for details.

*Compliant with RoHS.

Current rating

Unit: A

Circuits	Wire size (AWG)				
	#20	#22	#24	#26	#28
3	4.6	4.4	3.4	3.0	2.4
4	4.5	4.3	3.2	2.8	2.3
6	4.3	4.1	2.8	2.6	2.1
8	4.1	3.6	2.6	2.3	1.9
10	3.9	3.4	2.5	2.2	1.8
12	3.6	3.1	2.4	2.0	1.6
16	3.2	2.8	2.2	1.8	1.4
20	2.9	2.5	2.1	1.7	1.3

Standards

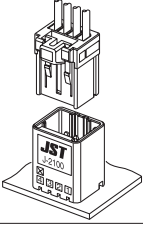
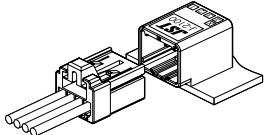
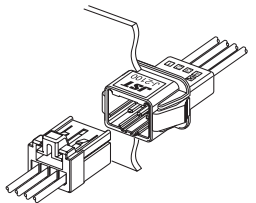
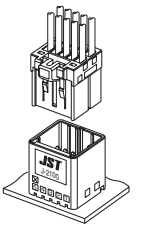
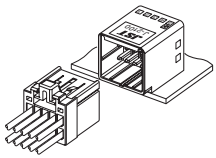
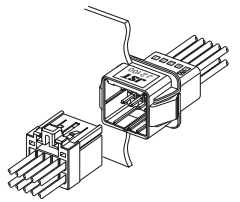
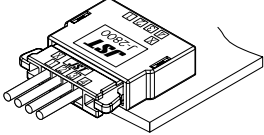
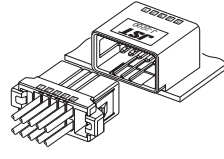
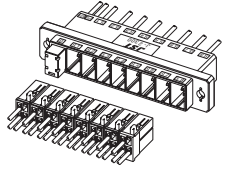
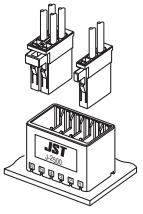
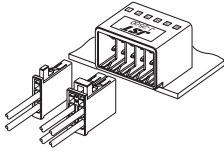
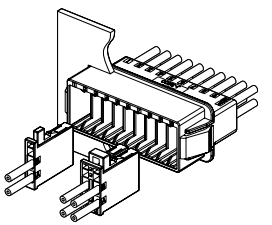
Recognized E60389

Certified LR20812

JFA CONNECTOR/J2000 SERIES

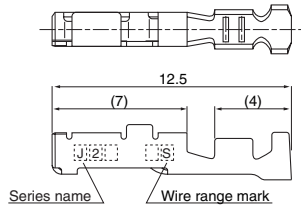
List of J2000 series products

2.5mm pitch / Voltage rating 250V AC, DC

Type		Wire-to-board		Wire-to-wire
		Top entry type	Side entry type	Panel mounting type
Center locking type	J2100 Single-row type			
	Circuits	3, 4	3, 4	3, 4
	J2100 Double-row type			
	Circuits	6, 8, 10, 12, 16, 20	6, 8, 10, 12, 16, 20	6, 8, 10, 12, 16, 20
Side locking type	J2800 Single-row type			
	Circuits		4	
	J2200 Double-row type			
	Circuits		10	
Common type for sensors	J2300			
	Circuits			Output 10 / Input 24
Module type	J2500			
	Circuits	12, 20	12, 20	20

JFA CONNECTOR/J2000 SERIES

Receptacle contact



Strip contact Model No.	Applicable wire			Insulation O.D. (mm)	Q'ty / reel
	Nominal	mm ²	AWG#		
SJ2F-002GF-P1.0	S	0.08~0.20	28~24	0.88~1.43	6,000
SJ2F-01GF-P1.0	M	0.20~0.50	24~20	1.11~1.53	6,000
SJ2F-21GF-P1.0	L	0.30~0.75	—	1.30~1.90	5,000

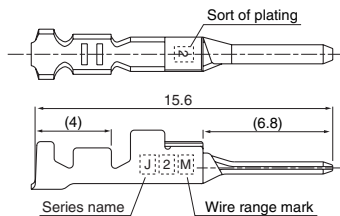
Material and Finish

Copper alloy (superior conductivity), nickel-underplated, selective gold-plated

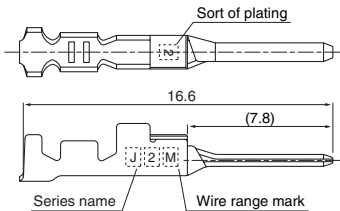
RoHS compliance

Tab contact

• Standard Tab



• Sequential Tab



Strip contact Model No.	Applicable wire			Insulation O.D. (mm)	Q'ty / reel
	Nominal	mm ²	AWG#		
SJ2M-002GF-M1.0N	S	0.08~0.20	28~24	0.88~1.43	5,500
SJ2M-01GF-M1.0N	M	0.20~0.50	24~20	1.11~1.53	5,500
SJ2M-21GF-M1.0N	L	0.30~0.75	—	1.30~1.90	5,000
SJ2M-01GF-M1.0S	Sequential	0.20~0.50	24~20	1.11~1.53	5,500

Material and Finish

Copper alloy (superior conductivity), nickel-underplated, selective gold-plated

RoHS compliance

Crimping machine, Applicator

Strip contact Model No.	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies	Hand crimp tools
SJ2F-002GF-P1.0 SJ2M-002GF-M1.0N	AP-K2N	MKS-L	MK/SJ2F/M-002-10	APLMK SJ2F/M002-10	YRS-8851
		—	—	—	
SJ2F-21GF-P1.0 SJ2M-21GF-M1.0N	AP-K2N	MKS-L	MK/SJ2F/M-21-10	APLMK SJ2F/M21-10	YRF-1120
		*MKS-SC-J2	SC/SJ2F/M-21-10	APLSC SJ2F/M21-10	

• Extraction tool for J2000 series: EJ-JFAJ2N

• Refer to page 15, 16 of YRK series hand crimping tools for details.

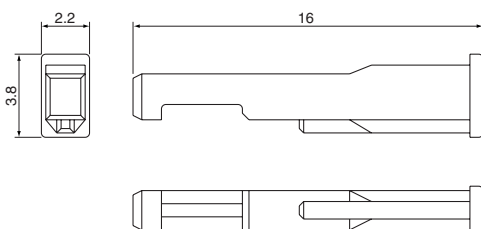
Note 1.*: Strip-crimp applicator

2. Contact JST for fully automatic crimping applicator.

Strip contact Model No.	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies	Hand crimp tools
SJ2F-01GF-P1.0 SJ2M-01GF-M1.0N SJ2M-01GF-M1.0S	AP-K2N	MKS-L	MK/SJ2F/M-01-10	APLMK SJ2F/M01-10	YRS-8861
		*MKS-SC-J2	SC/SJ2F/M-01-10	APLSC SJ2F/M01-10	

Keying plug

Model No.: J2KP-VY

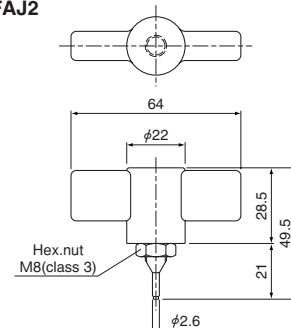


RoHS compliance

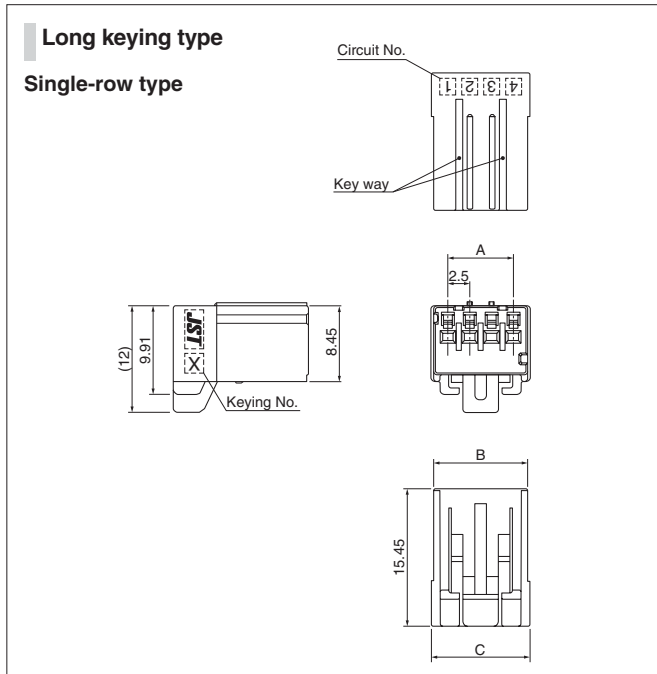
3 JST

Tab contact cutting tool

Model No.: CT-JFAJ2



Receptacle housing (Center locking type)



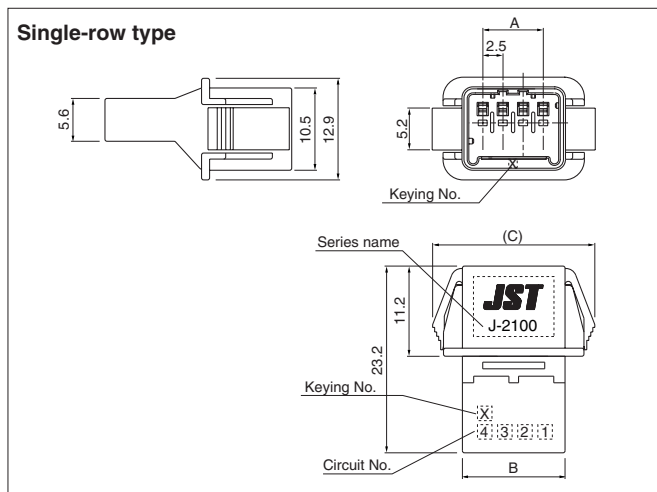
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
3	X	J21SF-03V-KX-L	5.0	8.3	8.9	400
	Y	J21SF-03V-KY-L	5.0	8.3	8.9	400
4	X	J21SF-04V-KX-L	7.5	10.8	11.4	400
	Y	J21SF-04V-KY-L	7.5	10.8	11.4	400

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing (Panel mounting type)



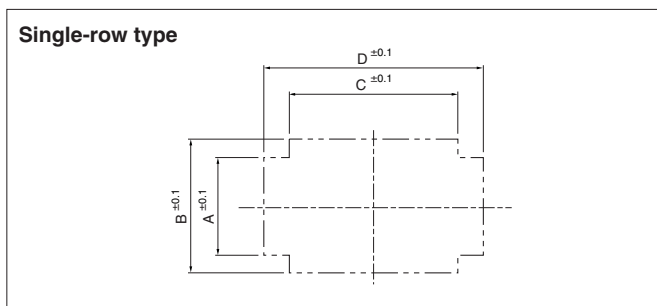
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	(C)	
3	X	J21SPM-03V-KX	5.0	10.2	17.6	208
	Y	J21SPM-03V-KY	5.0	10.2	17.6	208
4	X	J21SPM-04V-KX	7.5	12.7	20.1	192
	Y	J21SPM-04V-KY	7.5	12.7	20.1	192

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

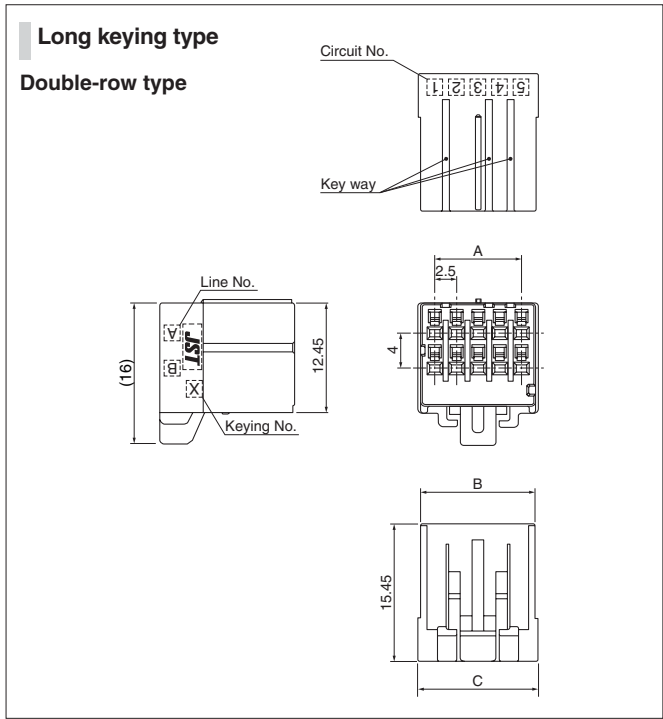
Panel layout



Circuits	Dimensions (mm)			
	A	B	C	D
3	7.8	10.8	10.5	15.2
4	7.8	10.8	13.0	17.7

J2000 SERIES/J2100

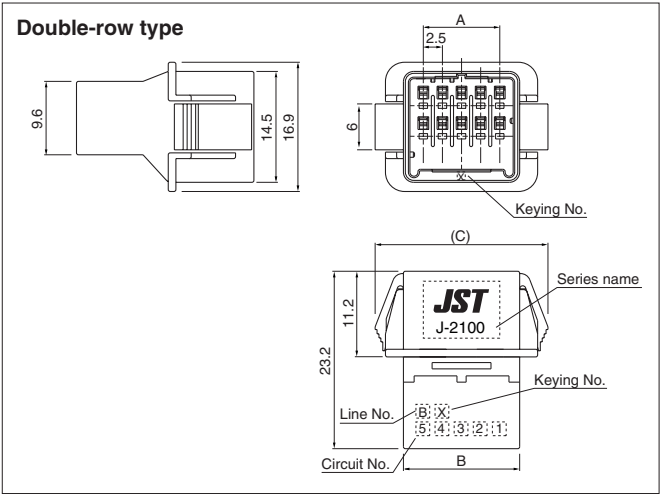
Receptacle housing (Center locking type)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
6	X	J21DF-06V-KX-L	5.0	8.3	8.9	300
	Y	J21DF-06V-KY-L	5.0	8.3	8.9	300
8	X	J21DF-08V-KX-L	7.5	10.8	11.4	300
	Y	J21DF-08V-KY-L	7.5	10.8	11.4	300
10	X	J21DF-10V-KX-L	10.0	13.3	13.9	200
	Y	J21DF-10V-KY-L	10.0	13.3	13.9	200
12	X	J21DF-12V-KX-L	12.5	15.8	16.4	200
	Y	J21DF-12V-KY-L	12.5	15.8	16.4	200
16	X	J21DF-16V-KX-L	17.5	20.8	21.4	200
	Y	J21DF-16V-KY-L	17.5	20.8	21.4	200
20	X	J21DF-20V-KX-L	22.5	25.8	26.4	100
	Y	J21DF-20V-KY-L	22.5	25.8	26.4	100
Material						
Glass-filled PBT, UL94V-0, black						

RoHS compliance

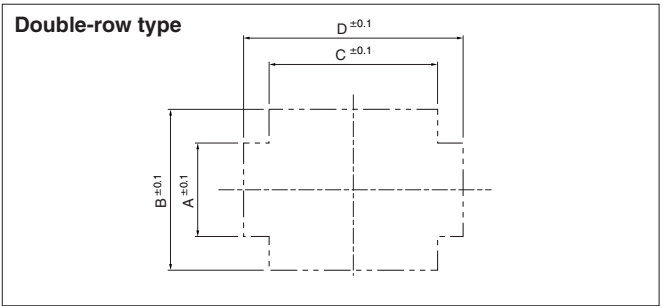
Tab housing (Panel mounting type)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	(C)	
6	X	J21DPM-06V-KX	5.0	10.2	17.6	156
	Y	J21DPM-06V-KY	5.0	10.2	17.6	156
8	X	J21DPM-08V-KX	7.5	12.7	20.1	144
	Y	J21DPM-08V-KY	7.5	12.7	20.1	144
10	X	J21DPM-10V-KX	10.0	15.2	22.6	120
	Y	J21DPM-10V-KY	10.0	15.2	22.6	120
12	X	J21DPM-12V-KX	12.5	17.7	25.1	108
	Y	J21DPM-12V-KY	12.5	17.7	25.1	108
16	X	J21DPM-16V-KX	17.5	22.7	30.1	84
	Y	J21DPM-16V-KY	17.5	22.7	30.1	84
20	X	J21DPM-20V-KX	22.5	27.7	35.1	72
	Y	J21DPM-20V-KY	22.5	27.7	35.1	72
Material						
Glass-filled PBT, UL94V-0, black						

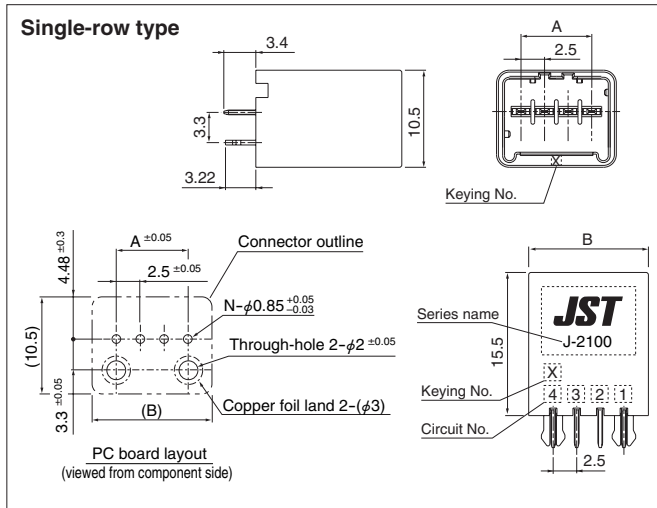
RoHS compliance

Panel layout



Circuits	Dimensions (mm)			
	A	B	C	D
6	8.6	14.8	10.5	15.2
8	8.6	14.8	13.0	17.7
10	8.6	14.8	15.5	20.2
12	8.6	14.8	18.0	22.7
16	8.6	14.8	23.0	27.7
20	8.6	14.8	28.0	32.7

Header Top entry type (Center locking type)



Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
3	X	B03B-J21SK-GGXR	5.0	10.2	378
	Y	B03B-J21SK-GGYR	5.0	10.2	378
4	X	B04B-J21SK-GGXR	7.5	12.7	306
	Y	B04B-J21SK-GGYR	7.5	12.7	306

Material and Finish

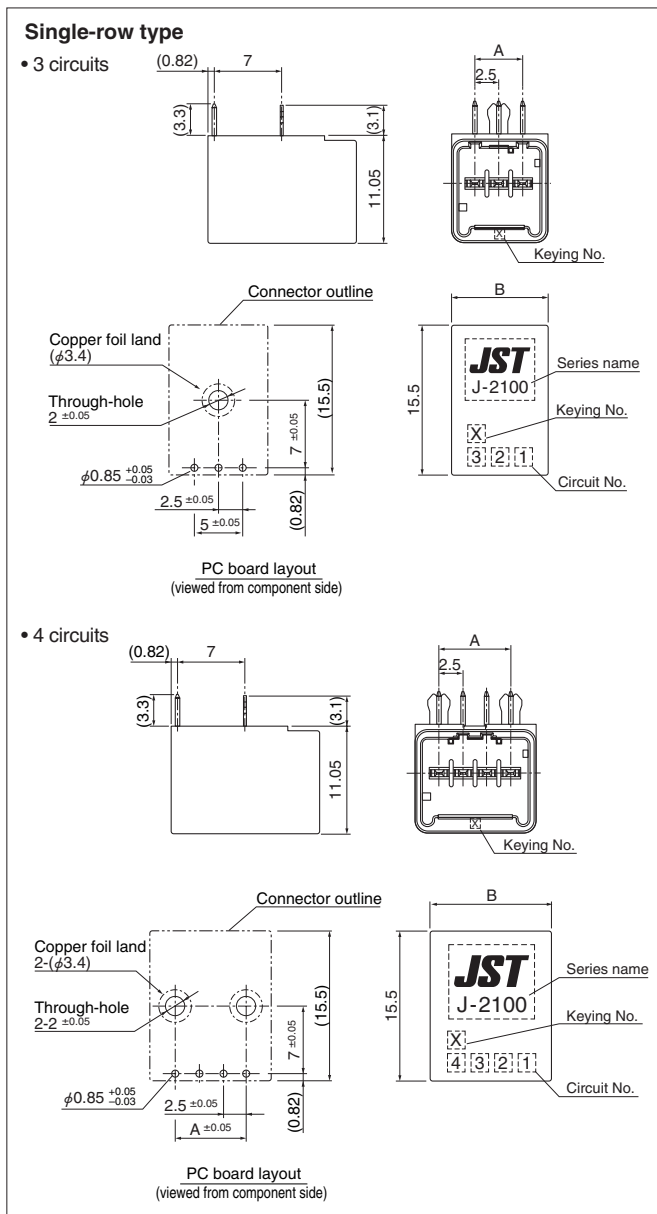
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

Housing: Glass-filled PBT, UL94V-0, black

Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance This product displays (LF)(AU) on a label.

Header Side entry type (Center locking type)



Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
3	X	S03B-J21SK-GGXR	5.0	10.2	294
	Y	S03B-J21SK-GGYR	5.0	10.2	294
4	X	S04B-J21SK-GGXR	7.5	12.7	238
	Y	S04B-J21SK-GGYR	7.5	12.7	238

Material and Finish

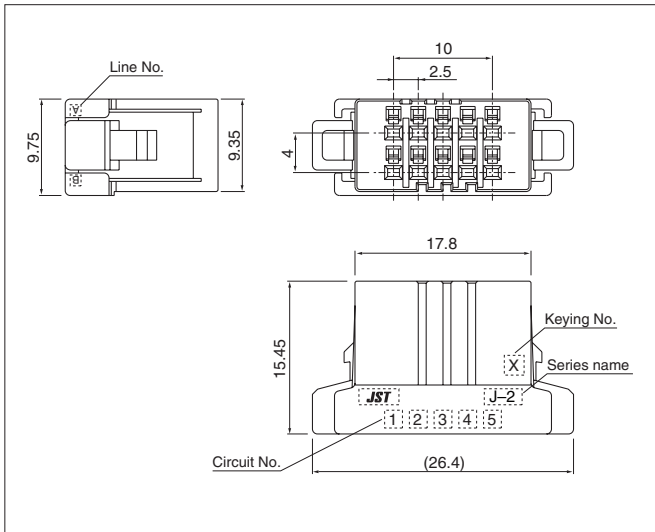
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

Housing: Glass-filled PBT, UL94V-0, black

Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance This product displays (LF)(AU) on a label.

Receptacle housing (Side locking type)



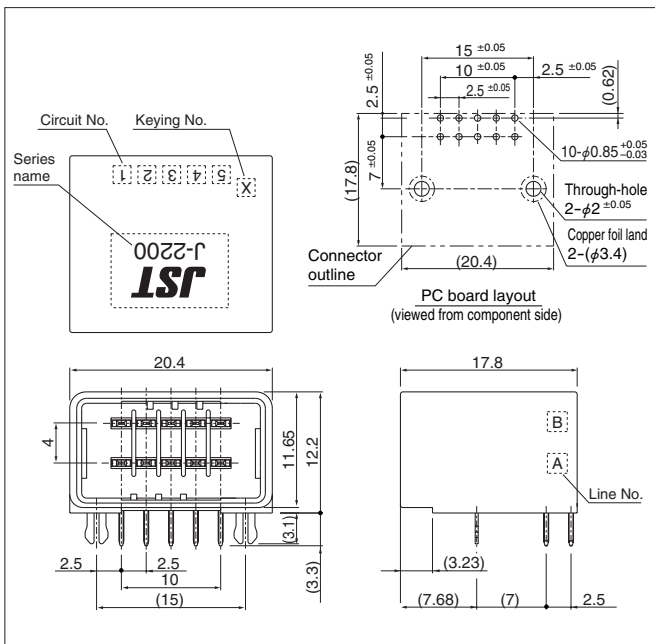
Circuits	Keying	Model No.	Q'ty / bag
10	X	J22DF-10V-KX	250
	Y	J22DF-10V-KY	250

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Header Side entry type (Side locking type)



Circuits	Keying	Model No.	Q'ty / box
10	X	S10B-J22DK-GGXR	120
	Y	S10B-J22DK-GGYR	120

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

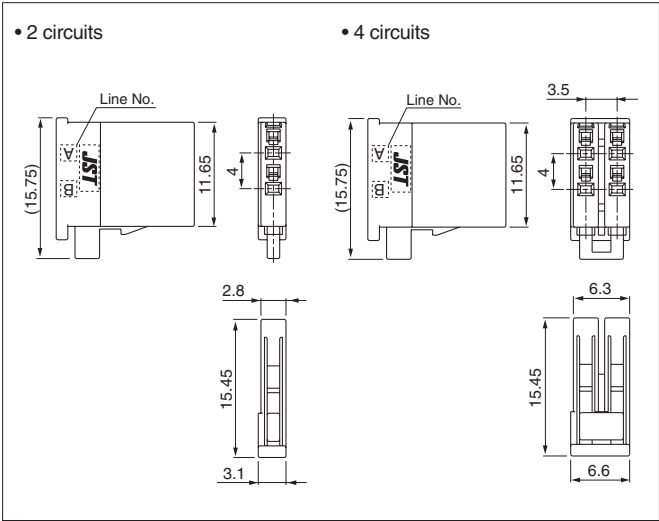
Housing: Glass-filled PBT, UL94V-0, black

Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance This product displays (LF)(AU) on a label.

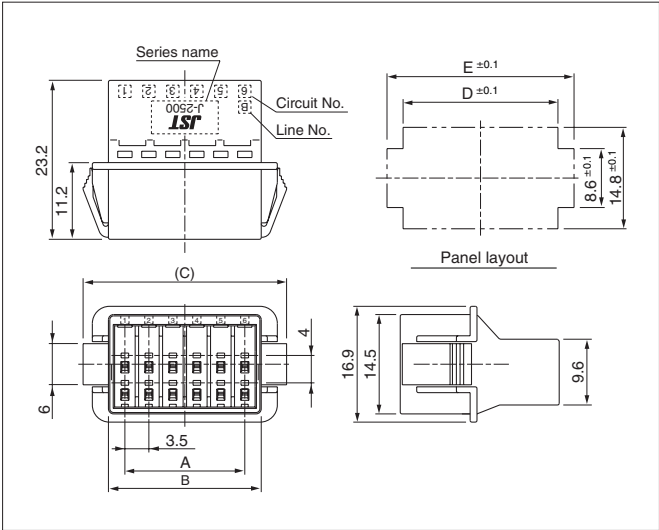
J2000 SERIES/J2500

Receptacle housing (Module type)



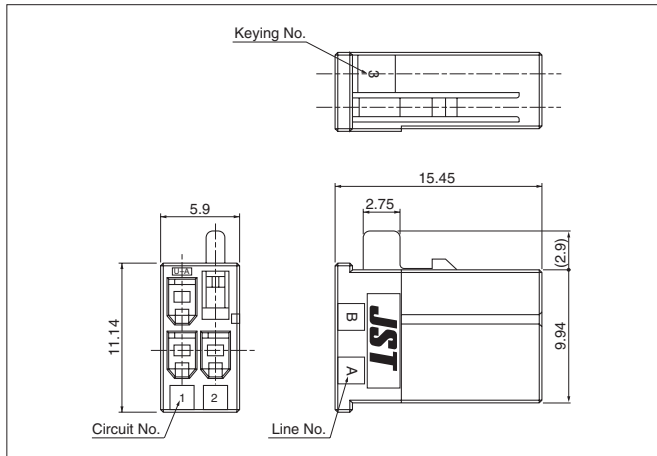
Circuits	Keying	Model No.	Q'ty / bag
2	—	J25MF-02V-K	800
4	—	J25MF-04V-K	400
Material			
Glass-filled PBT, UL94V-0, black			
RoHS compliance			

Tab housing (Panel mounting type)



Circuits	Keying	Model No.	Dimensions (mm)					Q'ty / box
			A	B	(C)	D	E	
12	—	J25DPM-12V-K	17.5	22.3	29.7	22.6	27.3	96
20	—	J25DPM-20V-K	31.5	36.3	43.7	36.6	41.3	132
Material								
Glass-filled PBT, UL94V-0, black								
RoHS compliance								

Receptacle housing (Common type for sensor)



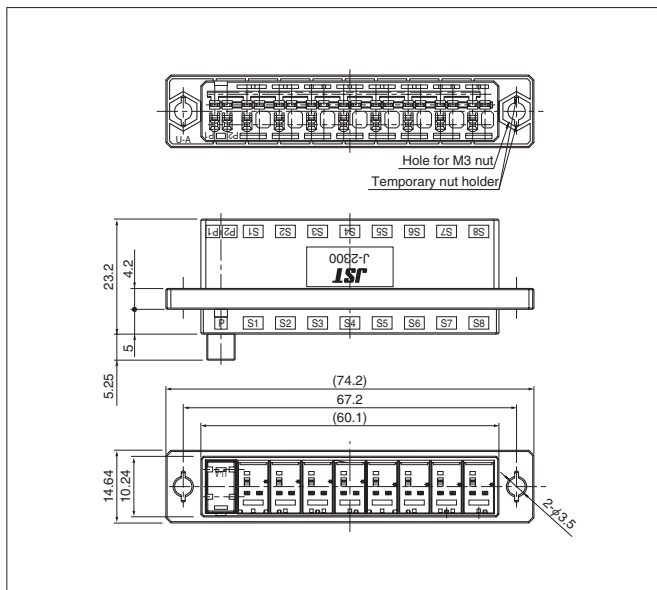
Circuits	Keying	Model No.	Q'ty / box
3	S1	J23CF-03V-KS1	784
	S2	J23CF-03V-KS2	784
	S3	J23CF-03V-KS3	784
	S4	J23CF-03V-KS4	784
	S5	J23CF-03V-KS5	784
	S6	J23CF-03V-KS6	784
	S7	J23CF-03V-KS7	784
	S8	J23CF-03V-KS8	784

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

T&P connector



Circuits	Keying	Model No.	Q'ty / box
Input	24	P28B-J23DK-GGNNR	64
Output	10		

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black

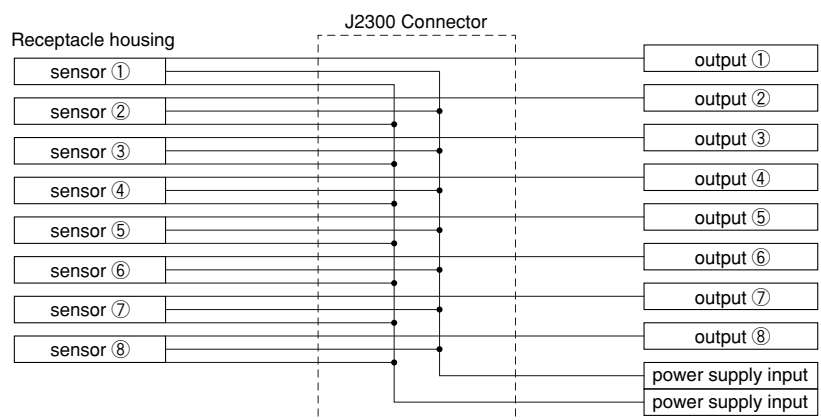
RoHS compliance

• Current rating

Wire size	Current (A)
#20	6.5
#22	5.5
#24	4.0
#26	3.0
#28	2.0

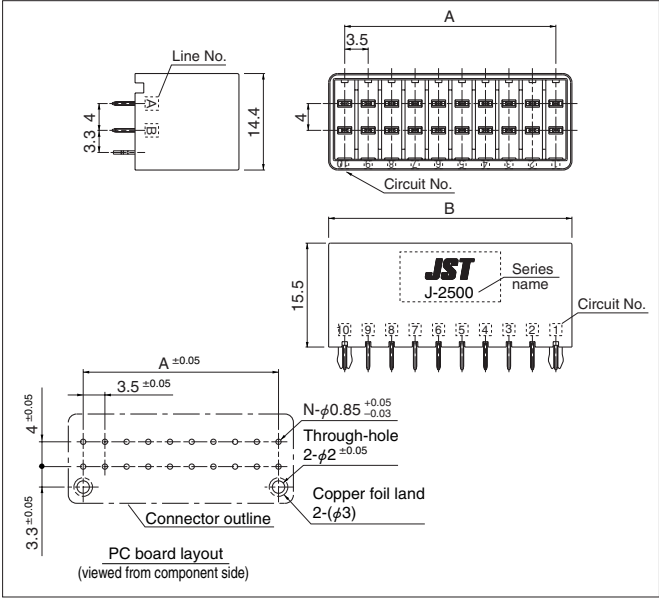
• Voltage rating: 250V AC, DC

• Circuit composition



J2000 SERIES/J2500

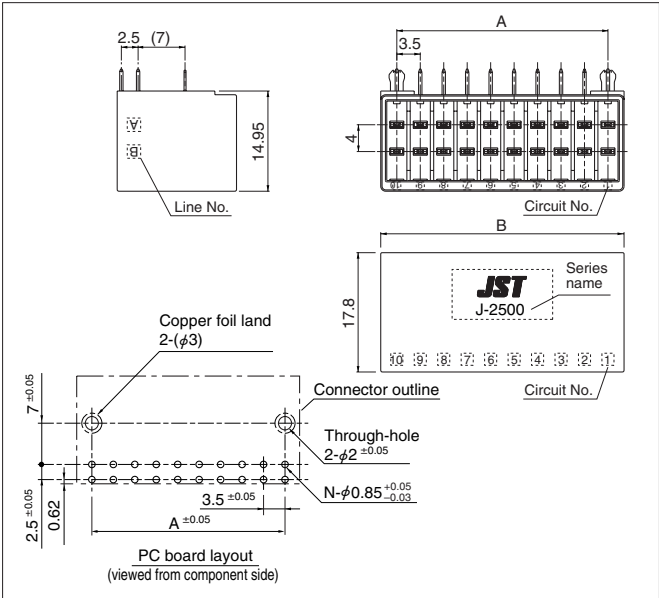
Header Top entry type (Module type)



Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
12	—	B12B-J25DK-GGR	17.5	22.3	108
20	—	B20B-J25DK-GGR	31.5	36.3	72

Material and Finish					
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated					
Housing: Glass-filled PBT, UL94V-0, black					
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated					
RoHS compliance This product displays (LF) (AU) on a label.					

Header Side entry type (Module type)

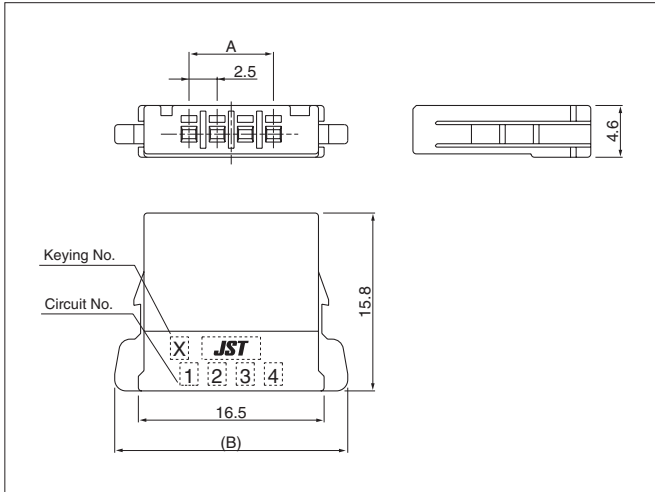


Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
12	—	S12B-J25DK-GGR	17.5	22.3	108
20	—	S20B-J25DK-GGR	31.5	36.3	72

Material and Finish					
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated					
Housing: Glass-filled PBT, UL94V-0, black					
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated					
RoHS compliance This product displays (LF) (AU) on a label.					

J2000 SERIES/J2800

Receptacle housing



Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	(B)	
4	X	J28SF-04V-KX	7.5	20.7	540
	Y	Under planning	—	—	—

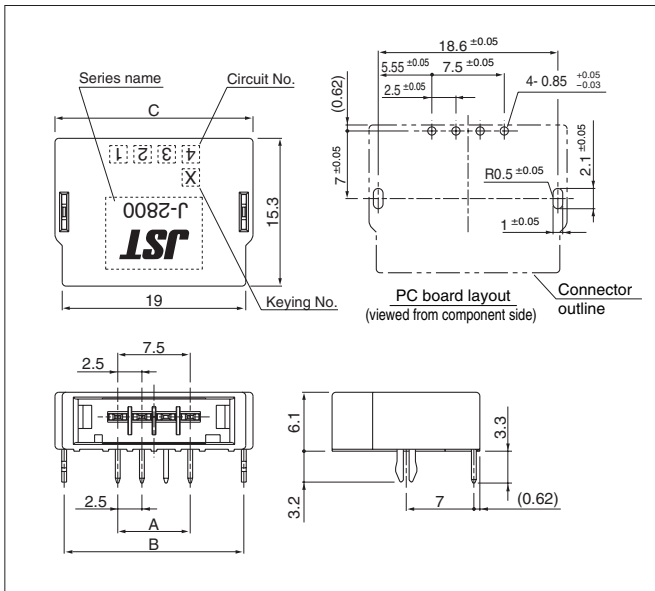
Material

PBT, UL94V-0, black

RoHS compliance

Note: Not UL/CSA approved.

Header Side entry type (Side locking type)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
4	X	S04B-J28SK-GGXQ1R	7.5	18.6	20.5	280
	Y	Under planning	—	—	—	—

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

Housing: Glass-filled PBT, UL94V-0, black

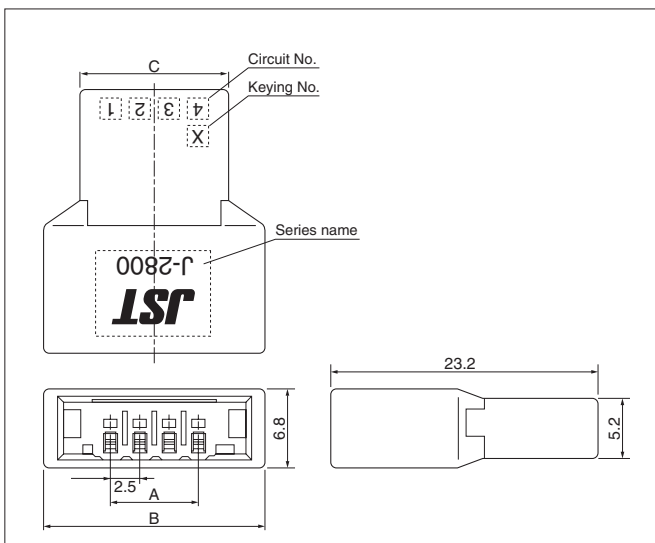
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance

Note: 1. 3rd and 4th pins are sequential pins.

2. Not UL/CSA approved.

Tab housing (Free hanging type)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
4	X	J28SFM-04V-KX	7.5	19	12.7	—
	Y	Under planning	7.5	19	12.7	—

Material

PBT, UL94V-0, black

RoHS compliance

Note: Not UL approved.

JFA CONNECTOR/2000 SERIES

Model number identification

Receptacle contact

SJ2F - 01GF - P1.0

Form: S...Strip form

Series name

Kind of terminal: F...Receptacle contact

Applicable wire: 002...AWG #28 ~ AWG#24
01...AWG #24 ~ AWG#20
21...0.3 to 0.75mm²

Surface finish: GF...Nickel-undercoated, 0.38 μm selective gold-plated

Material: P...Copper alloy

Terminal size

Tab contact

SJ2M - 01GF - M1.0S

Form: S...Strip form

Series name

Kind of terminal: M...Tab contact

Applicable wire: 002...AWG #28 ~ #24
01...AWG #24 ~ #20
21...0.3 to 0.75mm²

Surface finish: GF...Nickel-undercoated, 0.38 μm selective gold-plated

Material: M...Copper alloy

Terminal size

Sequential identification: N...Normal, S...Sequential

Receptacle housing

J21D F-06V - KX - L

Series name: J21...Center locking type
J22...Side locking type
J23...Center locking type (for sensor)
J25...Module type
J28...Side locking type (Thin type)

Rows: S...Single-row, D...Double-row, M...Module-row
C...For sensor-row

Type of connector: F...Receptacle housing

No. of circuits: 2, 3, 4, 6, 8, 10, 12, 16, 20

Flammability: UL94V-0

Color indication: K...Black, S...Natural (White), PK...Pink

Keying: X...X-Keying, Y...Y-Keying, ※...S1 ~ S8

Key way type: L...Long keying type
Blank...Short keying type (6 circuits is long keying type)

Tab housing

J21DPM-06V - KX

Series name: J21...Center locking type
J22...Side locking type
J25...Module type

Rows: S...Single-row, D...Double-row

Configuration: F...Free hanging, P...Panel mounting

Type of connector: M...Tab housing

No. of circuits: 3, 4, 6, 8, 10, 12, 16, 20

Flammability: UL94V-0

Color indication: K...Black

Keying: X...X-Keying, Y...Y-Keying

Header

S04B - J28SK - GGXQ1R

PC board mounting direction:
B...Top entry type
S...Side entry type
P...Panel mounting type

No. of circuits: 3, 4, 6, 8, 10, 12, 16, 20

Product name: Header

Series name: J21...Center locking type
J22...Side locking type
J23...Center locking type (for sensor)
J25...Module type
J28...Side locking type (Thin type)

Rows: S...Single-row, D...Double-row

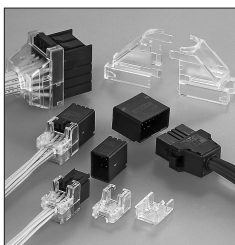
Color indication: K...Black, S...Natural (White), PK...Pink

Surface finish: GG...Nickel-undercoated, 0.38 μm selective gold-plated

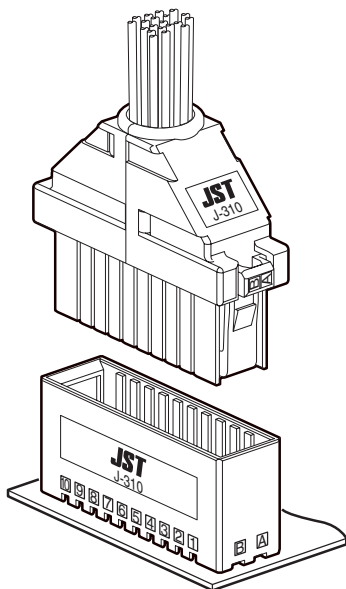
Keying: X...X-Keying, Y...Y-Keying, N...Special keying (S1 ~ S8)

Sequential indication: Q1...Sequential type, Blank...Standard type

Packaging form: R...Tray



JFA CONNECTOR/PROTECTOR

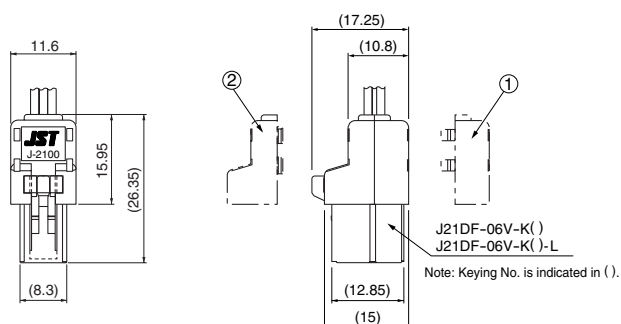


Note: Protector is not UL/CSA/TÜV approved

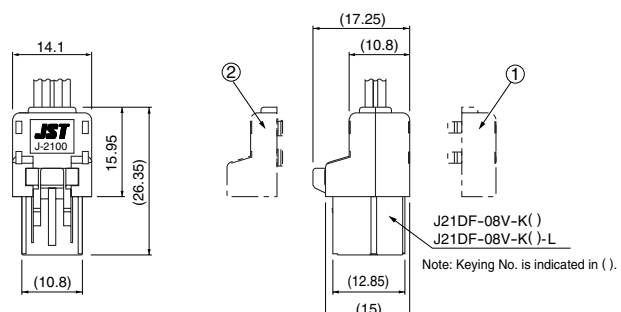
When applying a current to the connector, the protector prevents foreign substances being inserted into mating part from the wiring side. However it has no function of holding the wire securely.

J2000 Series

•J2100 series for 6 circuits



•J2100 series for 8 circuits



No.	Model No.	Color
①	J21PF-06SCA	Transparent
②	J21PF-06SCB	Transparent
Material		
Polycarbonate		

RoHS compliance

No.	Model No.	Color
①	J21PF-08SCA	Transparent
②	J21PF-08SCB	Transparent
Material		
Polycarbonate		

RoHS compliance

JFA CONNECTOR/PROTECTOR

J2000 Series

•J2100 series for 10 circuits

No.	Model No.	Color
①	J21PF-10SCA	Transparent
②	J21PF-10SCB	Transparent
Material		
Polycarbonate		

RoHS compliance

•J2100 series for 16 circuits

No.	Model No.	Color
①	J21PF-16SCA	Transparent
②	J21PF-16SCB	Transparent
Material		
Polycarbonate		

RoHS compliance

•J2100 series for 20 circuits

No.	Model No.	Color
①	J21PF-20SCA	Transparent
②	J21PF-20SCB	Transparent
Material		
Polycarbonate		

RoHS compliance

•J2200 series for 10 circuits

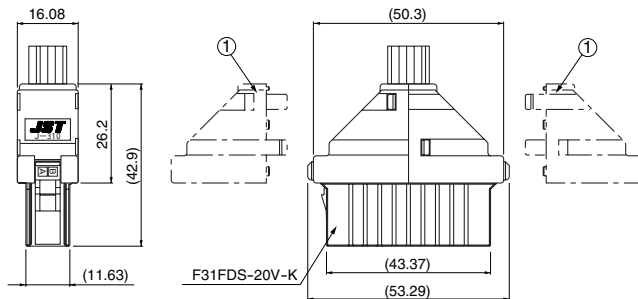
No.	Model No.	Color
①	J22PF-10VK	Black
Material		
Glass-filled PBT		

RoHS compliance
Note: Two protectors are used.

JFA CONNECTOR/PROTECTOR

J300 Series

•J310D series for 20 circuits



No.	Model No.	Color
①	F31PFD-20VK	Black
①	F31PFD-20SC	Transparent

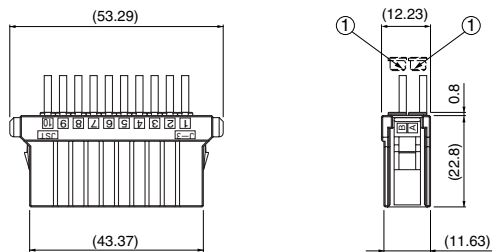
Material

Black: Glass-filled PBT
Transparent: Polycarbonate

RoHS compliance

Note: Two protectors of the same color are used.

•J310D series / Embedding-type protector for 8, 10 circuits



No.	Model No.	Color
①	F31PFS-10KU	Black

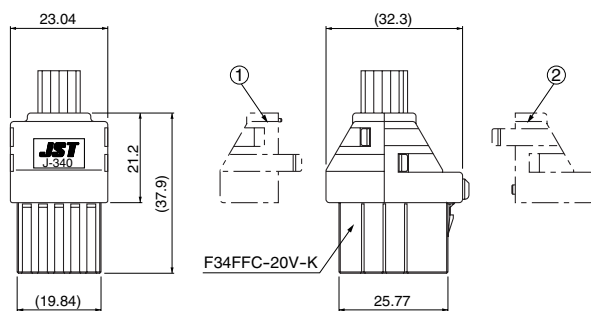
Material

Glass-filled PBT

RoHS compliance

Note: This protector is cut and used for each number of circuits.

•J340F series for 20 circuits



No.	Model No.	Color
①	F34PFF-20VKA	Black
	F34PFF-20SCA	Transparent
②	F34PFF-20VKB	Black
	F34PFF-20SCB	Transparent

Material

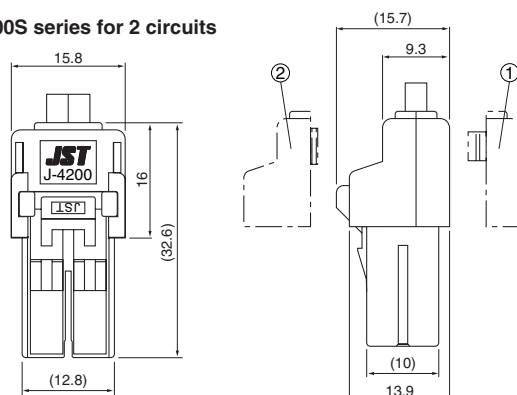
Black: Glass-filled PBT
Transparent: Polycarbonate

RoHS compliance

Note: Both 1 and 2 protectors in the same color are used.

J4000 Series

•J4200S series for 2 circuits



No.	Model No.	Color
①	J42PF-02SCA	Transparent
②	J42PF-02SCB	Transparent

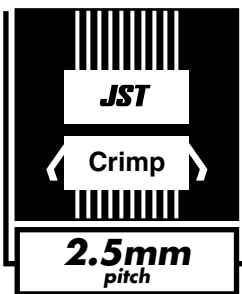
Material

Polycarbonate

RoHS compliance

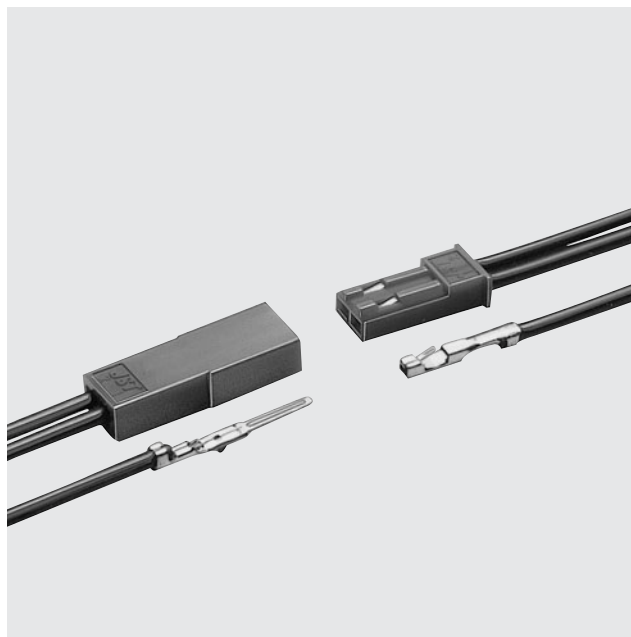
(Patent pending)

When applying a current to the connector, the protector prevents foreign substances being inserted into mating part from the wiring side. However it has no function of holding the wire securely.

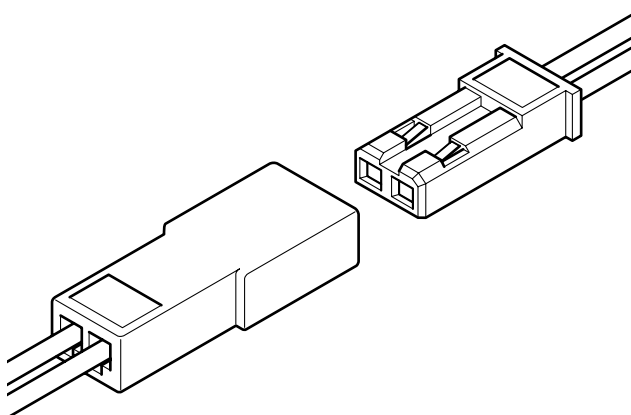


RCY CONNECTOR

Disconnectable Crimp style Wire-to-wire connectors



The RCY connector is a compact, 2.5mm pitch wire-to-wire connector for use with a variety of circuits, from signal circuits to power supply circuits, in electrical equipment which is becoming more and more compact. The employment of a free spring contact method ensures stable contact performance, and superb working efficiency of insertion and removal.



Features

• Use of a free spring contact for superb creep characteristics

The contact section features a free spring contact construction, which effectively minimizes stress (creep) caused by repeated insertion and removal at high temperatures. Connector insertion and removal is also smooth, ensuring stable connection performance.

• Compact design

The RCY connector is designed to be compact. When mated, its overall length is just 23.3mm and its thickness is 4.0mm.

• Housing lock

Because a lock is provided inside the housing, external force is not applied to the lock.

Specifications

- Current rating: 3A AC, DC max.
- Voltage rating: 250V AC, DC max.
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #28 to #22
0.08 to 0.33mm²
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Note: The current rating varies depending on the wire size used in each connector.

The table below lists the current rating as a function of the wire size.

Circuits	Wire size (AWG)			
	#22	#24	#26	#28
2	3	2	1	0.5

Current unit: A

Standards

Recognized E60389

Certified LR20812

RCY CONNECTOR

Contact

Pin contact	Socket contact
	

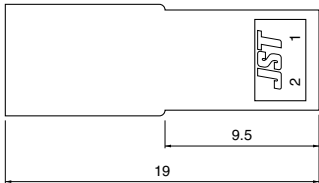
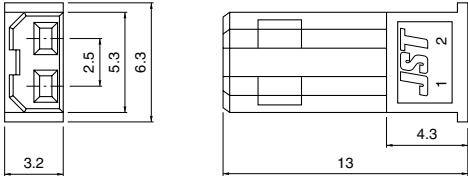
Model No.		Applicable wire			Q'ty / reel	
Pin contact	Socket contact	mm ²	AWG #	Insulation O.D. (mm)	Pin contact	Socket contact
SYM-001T-P0.6	SYF-001T-P0.6	0.08 to 0.33	28 to 22	1.2 to 1.8	8,500	7,500

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance SYF-001T-P0.6 displays (LF)(SN) on a label.
Note: Contact JST for brass products.

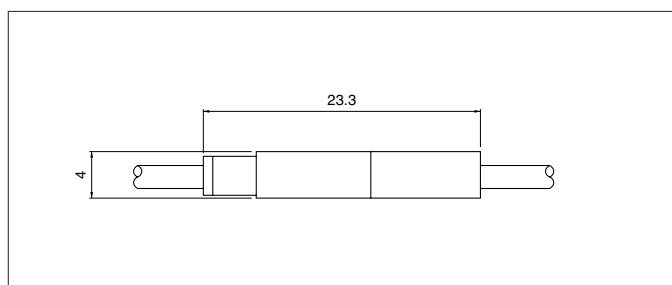
Housing

Receptacle housing (for pin contact)	Plug housing (for socket contact)
	

Circuits	Model No.		Material	Q'ty / bag
	Receptacle housing	Plug housing		
2	SYR-02T	SYP-02T-1	PA 66, UL94V-2, red	1,000
	SYR-02TV	SYP-02TV-1	PA 66, UL94V-0, white (natural)	1,000

RoHS compliance

Assembly layout



Crimping machine, Applicator

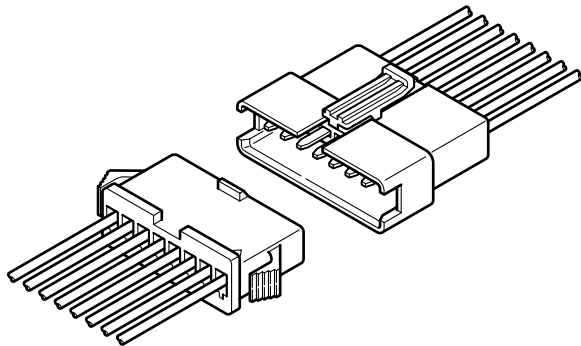
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SYM-001T-P0.6	AP-K2N	MKS-L, MSK-LS	MK/SYM-001-06	APLMK SYM001-06
		*MKS-SC	SC/SYM-001-06	APLSC SYM001-06
SYF-001T-P0.6		MKS-L	MK/SYF-001-06	APLMK SYF001-06
		—	—	—

Note: *Strip-crimp applicator



SM CONNECTOR

2.5mm pitch/Disconnectable Crimp style wire-to-wire connectors



The SM series are 2.5mm pitch, wire-to-wire connectors that perform reliably in high-density, small current applications.

- High contact pressure
- Highly reliable housing construction
- Mountable on a variety of panels
- Arm lock mechanism

Specifications

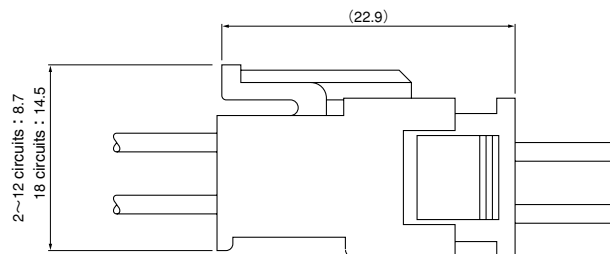
- Current rating: 3A AC, DC max.
 - Voltage rating: 250V AC, DC max.
 - Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
 - Contact resistance: Initial value/ 10m Ω max.
After environmental testing/ 20m Ω max.
 - Insulation resistance: 500M Ω min.
 - Withstanding voltage: 1,500V AC/minute
 - Applicable wire: AWG #28 to #22
0.08 to 0.33mm²
 - Applicable panel thickness: 0.5 to 2.0mm
- * Compliant with RoHS.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

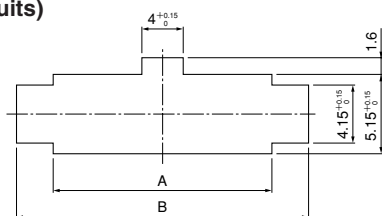
Recognized E60389

Certified LR20812

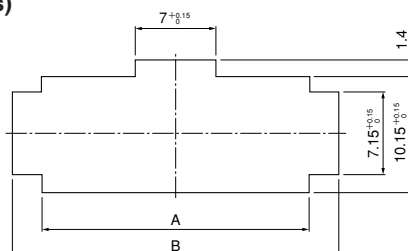
R50120150



(2 to 12 circuits)



(18 circuits)



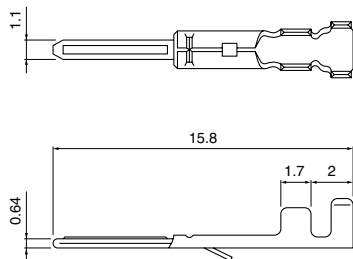
Circuits	Plug housing Model No.	Panel thickness (mm)					
		0.5~0.9		1.0~1.5		1.5~2.0	
		Panel hole dimensions (mm) General tolerance					
		A ^{+0.15 0}	B ^{±0.1}	A ^{+0.15 0}	B ^{±0.1}	A ^{+0.15 0}	B ^{±0.1}
2	SMP-02V-B(N)C	5.7	9.6	5.7	9.8	5.7	10.0
3	SMP-03V-B(N)C	8.2	12.1	8.2	12.3	8.2	12.5
4	SMP-04V-B(N)C	10.7	14.6	10.7	14.8	10.7	15.0
5	SMP-05V-B(N)C	13.2	17.1	13.2	17.3	13.2	17.5
6	SMP-06V-B(N)C	15.7	19.6	15.7	19.8	15.7	20.0
7	SMP-07V-B(N)C	18.2	22.1	18.2	22.3	18.2	22.5
8	SMP-08V-B(N)C	20.7	24.6	20.7	24.8	20.7	25.0
9	SMP-09V-B(N)C	23.2	27.1	23.2	27.3	23.2	27.5
10	SMP-10V-B(N)C	25.7	29.6	25.7	29.8	25.7	30.0
11	SMP-11V-B(N)C	28.2	32.1	28.2	32.3	28.2	32.5
12	SMP-12V-B(N)C	30.7	34.6	30.7	34.8	30.7	35.0
18	SMP-18V-B(N)C	23.2	27.2	23.2	27.4	23.2	27.6

Note: 1. Punch holes in the panel according to the sketch and table shown above. Burrs must be removed.
2. The strength of the panel must be considered when punching two or more holes.
3. The connector must be inserted from the same side as the hole is punched.

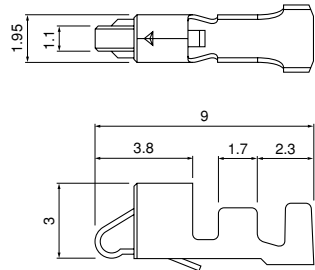
SM CONNECTOR

Contact

Pin contact



Socket contact



Model No.		Applicable wire		Insulation O.D. (mm)	Q'ty / reel
Pin contact	Socket contact	mm ²	AWG #		
SYM-001T-P0.6	SHF-001T-0.8BS	0.08~0.33	28~22	1.2~1.8	Pin contact: 8,500 Socket contact: 5,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

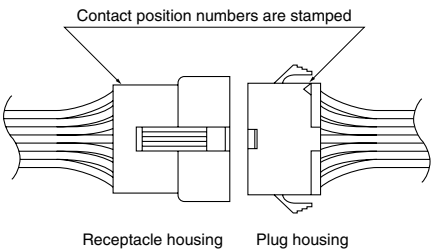
Note: 1. Contact JST for special products.
2. Contact JST for brass products.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SYM-001T-P0.6	AP-K2N	MKS-L	MK/SYM-001-06	APLMK SYM001-06
		*MKS-SC	SC/SYM-001-06	APLSC SYM001-06

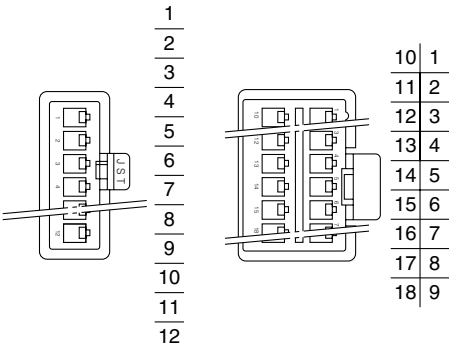
Note: *Strip-crimp applicator

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SHF-001T-0.8BS	AP-K2N	MKS-L	MK/SHF-001-08S	APLMK SHF001-08S
		*MKS-SC	SC/SHF-001-08S	APLSC SHF001-08S

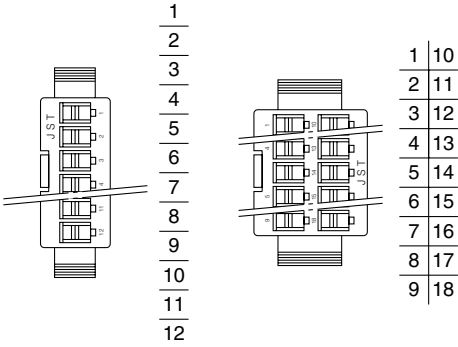
Contact position location numbers



Receptacle housing

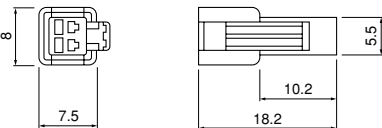
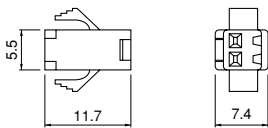
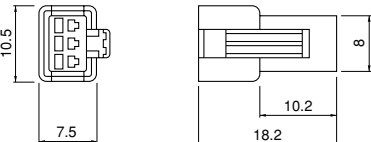
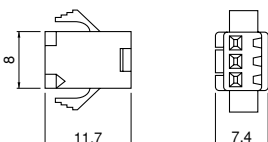
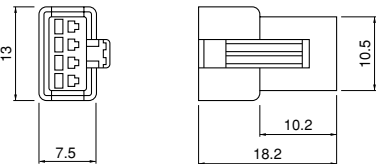
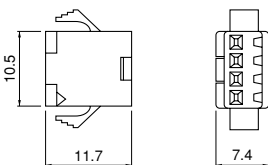
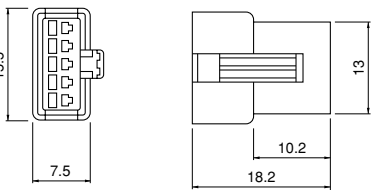
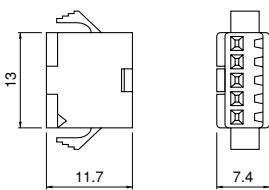
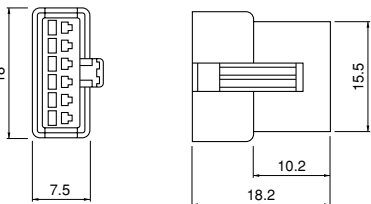
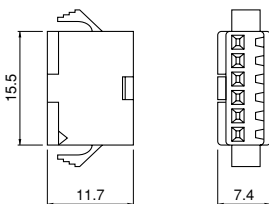


Plug housing



Housing

Material: PA 6, UL94V-0

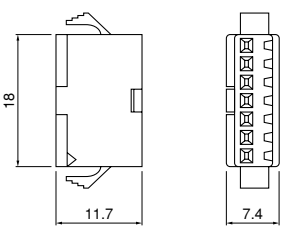
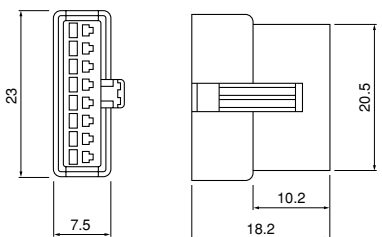
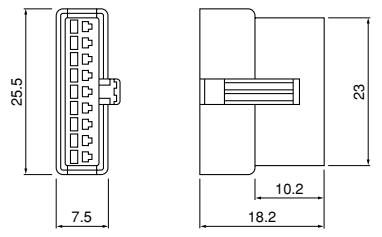
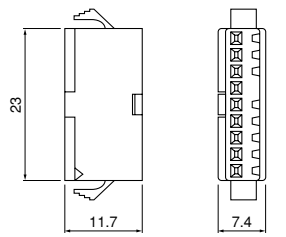
Circuits	Current rating	Receptacle housing(for pin contact)	Q'ty / bag	Plug housing(for socket contact)	Q'ty / bag
2	3A	SMR-02V-B , black SMR-02V-N , white (natural) 	1,000	SMP-02V-BC , black SMP-02V-NC , white (natural) 	1,000
3	3A	SMR-03V-B , black SMR-03V-N , white (natural) 	1,000	SMP-03V-BC , black SMP-03V-NC , white (natural) 	1,000
4	3A	SMR-04V-B , black SMR-04V-N , white (natural) 	500	SMP-04V-BC , black SMP-04V-NC , white (natural) 	1,000
5	3A	SMR-05V-B , black SMR-05V-N , white (natural) 	500	SMP-05V-BC , black SMP-05V-NC , white (natural) 	1,000
6	3A	SMR-06V-B , black SMR-06V-N , white (natural) 	500	SMP-06V-BC , black SMP-06V-NC , white (natural) 	500

RoHS compliance

SM CONNECTOR

Housing

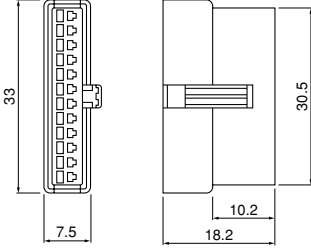
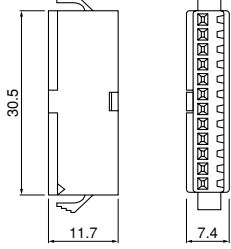
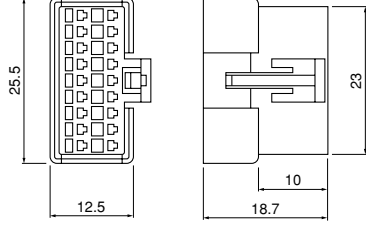
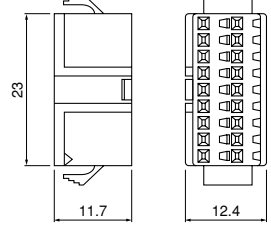
Material: PA 6, UL94V-0

Circuits	Current rating	Receptacle housing(for pin contact)		Plug housing(for socket contact)	
7	3A	SMR-07V-B , black SMR-07V-N , white (natural) 	Q'ty / bag 500	SMP-07V-BC , black SMP-07V-NC , white (natural) 	Q'ty / bag 500
8	3A	SMR-08V-B , black SMR-08V-N , white (natural) 	Q'ty / bag 500	SMP-08V-BC , black SMP-08V-NC , white (natural) 	Q'ty / bag 500
9	3A	SMR-09V-B , black SMR-09V-N , white (natural) 	Q'ty / bag 500	SMP-09V-BC , black SMP-09V-NC , white (natural) 	Q'ty / bag 500
10	3A	SMR-10V-B , black SMR-10V-N , white (natural) 	Q'ty / bag 200	SMP-10V-BC , black SMP-10V-NC , white (natural) 	Q'ty / bag 500
11	3A	SMR-11V-B , black SMR-11V-N , white (natural) 	Q'ty / bag 200	SMP-11V-BC , black SMP-11V-NC , white (natural) 	Q'ty / bag 500

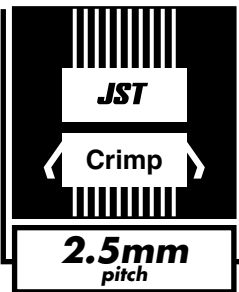
RoHS compliance

Housing

Material: PA 6, UL94V-0

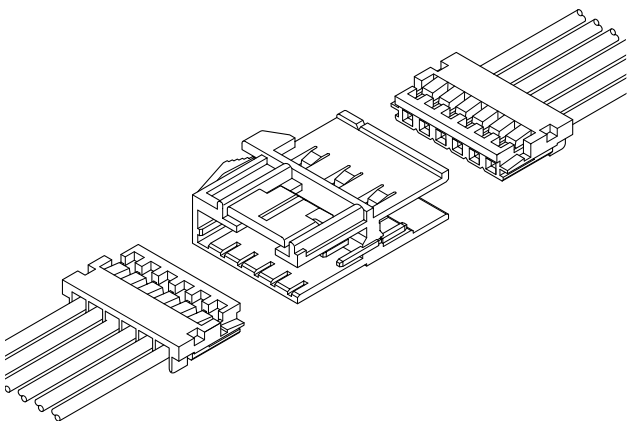
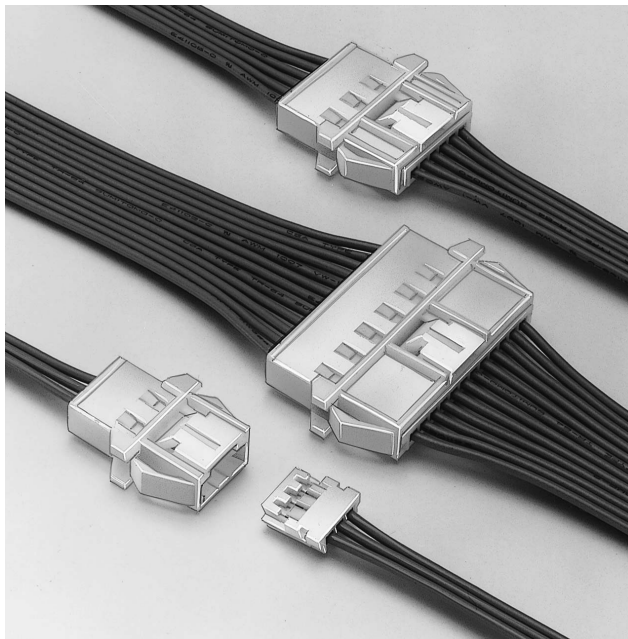
Circuits	Current rating	Receptacle housing(for pin contact)		Plug housing(for socket contact)	
12	3A	SMR-12V-B , black SMR-12V-N , white (natural) 	Q'ty / bag	SMP-12V-BC , black SMP-12V-NC , white (natural) 	Q'ty / bag
			500		500
18	2A	SMR-18V-B , black SMR-18V-N , white (natural) 	Q'ty / bag	SMP-18V-BC , black SMP-18V-NC , white (natural) 	Q'ty / bag
			200		200

RoHS compliance
Note: 1. SM connectors with any number of circuits can be used either panel mounted or free hanging.
2. Contact JST for special products.



THR CONNECTOR

Wire-to-wire connectors - Matable with HR receptacles



Features

- **Both crimp style and insulation displacement receptacles can be used**

Both crimp style and insulation displacement HR connector receptacles can be accommodated by the THR connector.

- **Arm lock mechanism**

An arm lock mechanism securely holds the plug and the receptacle together when they are connected. Releasing the lock is easy.

- **Mountable on a variety of panels**

Due to our unique panel installation locking mechanisms, the housing can be easily installed on panels of various thickness without using tools.

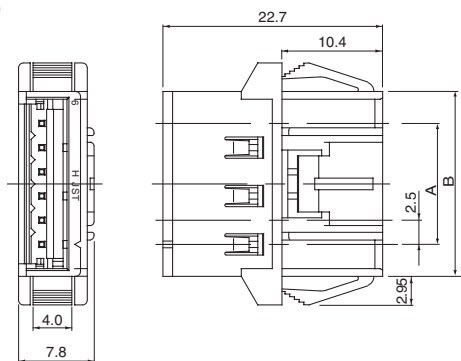
Specifications

- Current rating: Crimp style HR connectors type/3A AC, DC max.
Insulation displacement HR connectors type/2A AC, DC max.
- Voltage rating: 250V AC, DC max.
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/15m Ω max.
After environmental testing/25m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 1,000V AC/minute
- Applicable wire: Crimp style HR connectors type/AWG #26 to #22
0.13 to 0.33mm²
Insulation displacement HR connectors type/AWG #28, #26, #24
- Applicable panel thickness: 0.5 to 2.0mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

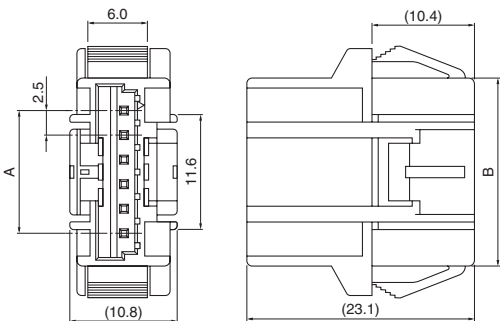
THR CONNECTOR

THR Connector

Housing
1-N type



1-1 type



Circuits	Model No.		Dimensions (mm)		Q'ty / bag
	1-N type	1-1 type	A	B	
3	BU03P-THR	BU03P-THR-1-K	5.0	11.6	200
6	BU06P-THR	BU06P-THR-1-K	12.5	19.1	100
12	BU12P-THR	BU12P-THR-1-K	27.5	34.1	50

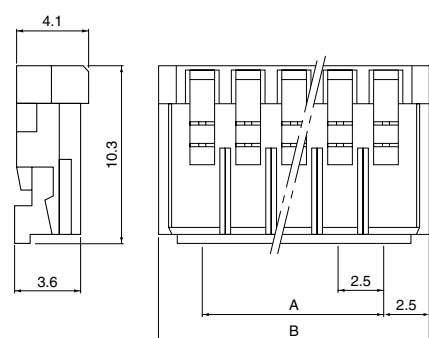
Material and Finish

Housing: PA 66, UL94V-0
Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Receptacle / Insulation displacement HR connector

Receptacle



Circuits	Model No.			Dimensions (mm)		Q'ty / box
	#28	#26	#24	A	B	
3	03HR-8M-P-N	03HR-6S-P-N	03HR-4K-P-N	5.0	10.0	1,000
6	06HR-8M-P-N	06HR-6S-P-N	06HR-4K-P-N	12.5	17.5	1,000
12	12HR-8M-P-N	12HR-6S-P-N	12HR-4K-P-N	27.5	32.5	500

Material and Finish

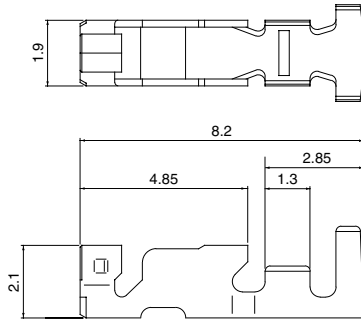
Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0

RoHS compliance

THR CONNECTOR

Receptacle / Crimp style HR connector

Contact



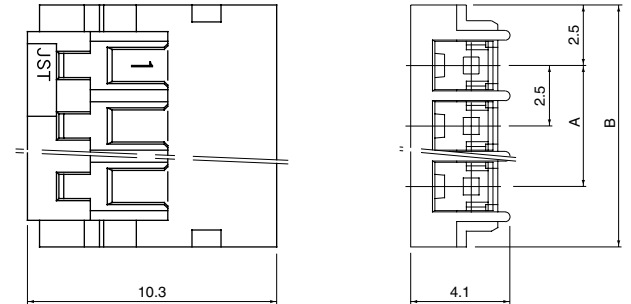
Model No.	Applicable wire			Q'ty / reel
	mm ²	AWG #	Insulation O.D. (mm)	
SHR-001T-P0.6	0.13 to 0.33	26 to 22	1.3 to 1.7	9,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Housing



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
3	HRP-03-S	5.0	10.0	2,000
6	HRP-06-S	12.5	17.5	1,000
12	HRP-12-S	27.5	32.5	500

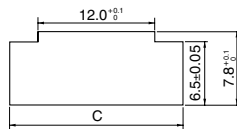
Material

PA 66, UL94V-0

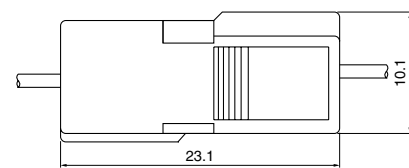
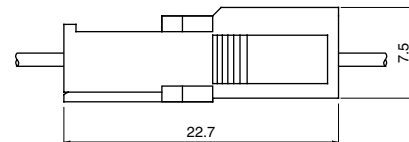
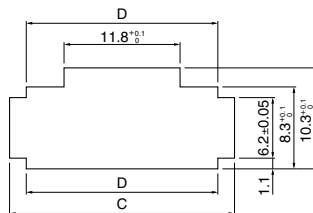
RoHS compliance

Panel layout and Assembly layout

1-N type



1-1 type



1-N type

Circuits	Housing	Panel hole dimensions (mm) General tolerance C[±0.05]	Applicable Panel thickness (mm)
3	BU03P-THR	15.3	0.5 to 2.0
6	BU06P-THR	22.8	
12	BU12P-THR	37.8	

1-1 type

Circuits	Housing	Panel hole dimensions (mm) General tolerance		Applicable Panel thickness (mm)
		C[±0.05]	D[*0.1]	
3	BU03P-THR-1-K	15.3	11.8	0.5 to 2.0
6	BU06P-THR-1-K	22.8	19.3	
12	BU12P-THR-1-K	37.8	34.3	

Note: 1. Punch holes in the panel according to the sketch and table shown above. Burrs must be removed.

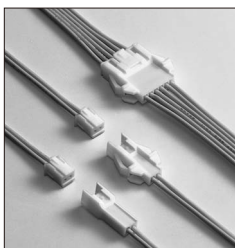
2. The strength of the panel must be considered when punching two or more holes.

3. The connector must be inserted from the same side as the hole is punched.

Crimping machine, Applicator

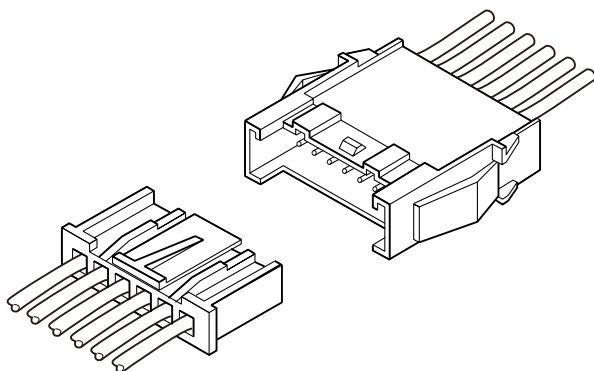
Contact	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies
SHR-001T-P0.6	AP-K2N	MKS-L	MK/SHR/MR-001-06	APLMK SHR/MR001-06
		*MKS-SC	SC/SHR/MR-001-06	APLSC SHR/MR001-06

Note: *Strip-crimp applicator



XA CONNECTOR

2.5mm pitch/Disconnectable Crimp style wire-to-wire connectors



2.5mm pitch wire-to-wire connector that can mate with the socket of XA connector (board-to-wire type). Reliable secondary retainer is available. Panel mount is applicable.

- Possible to mate with the existing XA socket
- Inner type contact lance
- Mountable on a variety of panels
- Secondary retainer
- Secure lock construction

Specifications

- Current rating: 3A AC, DC max. (AWG #20)
- Voltage rating: 250V AC, DC max.
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #28 to #20
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

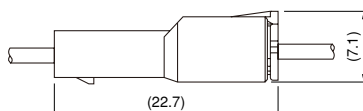
Recognized E60389

Certified LR20812

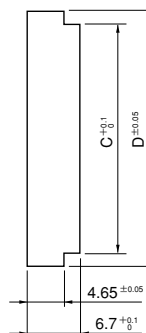
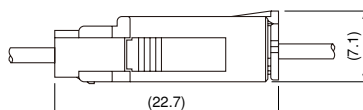
R9851220

Panel layout and Assembly layout

Without panel locks



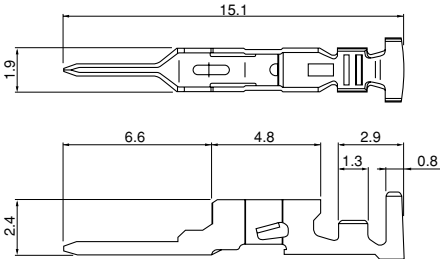
With panel locks

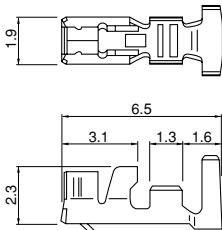


Note: C and D dimensions: Refer to receptacle housing.

XA CONNECTOR

Contact

Pin contact

Socket contact

Model No.		Applicable wire		Insulation O.D.(mm)	Q'ty / reel	
Pin contact	Socket contact	mm ²	AWG #		Pin contact	Socket contact
SXAM-001T-P0.6	SXA-001T-P0.6	0.08~0.33	28~22	0.8~1.9	7,000	8,000
SXAM-01T-P0.6	SXA-01T-P0.6	0.22~0.5	24~20	1.5~1.9	7,000	8,000

Material and Finish						
Phosphor bronze, tin-plated (reflow treatment)						


RoHS compliance
Note: Contact JST for gold-plated products.

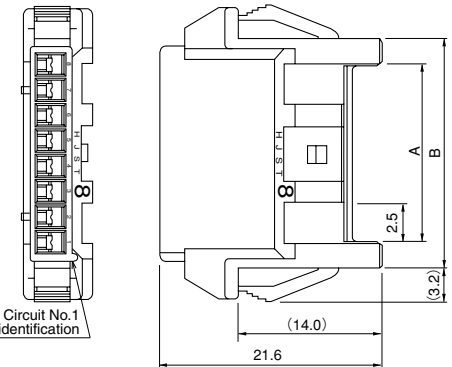
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXA-001T-P0.6	AP-K2N	MKS-L	MK/SXAM/XA-001-06	APLMK SXAM/XA001-06
		*MKS-SC	SC/SXAM/XA-001-06	APLSC SXAM/XA001-06
SXA-01T-P0.6	AP-K2N	MKS-L	MK/SXAM/XA-01-06	APLMK SXAM/XA01-06
		*MKS-SC	SC/SXAM/XA-01-06	APLSC SXAM/XA01-06

Note: *Strip-crimp applicator

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXAM-001T-P0.6	AP-K2N	MKS-L	MK/SXAM/XA-001-06	APLMK SXAM/XA001-06
		*MKS-SC	SC/SXAM/XA-001-06	APLSC SXAM/XA001-06
SXAM-01T-P0.6	AP-K2N	MKS-L	MK/SXAM/XA-01-06	APLMK SXAM/XA01-06
		*MKS-SC	SC/SXAM/XA-01-06	APLSC SXAM/XA01-06

Receptacle housing (for pin contact)

Without panel locks

With panel locks

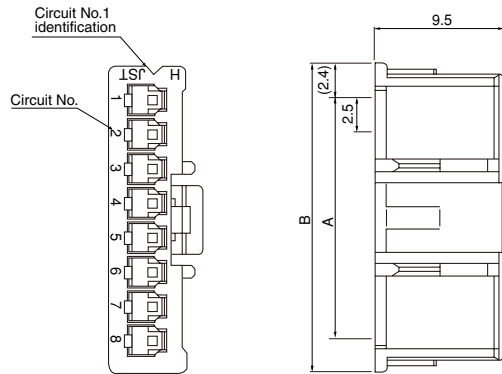
Circuits	Model No.		Dimensions (mm)				Q'ty / bag
	Without panel locks	With panel locks	A	B	C	D	
2	XARR-02VF	XARR-02V	2.5	7.5	7.9	11.2	1,000
3	XARR-03VF	XARR-03V	5.0	10.0	10.4	13.7	1,000
4	XARR-04VF	XARR-04V	7.5	12.5	12.9	16.2	1,000
5	XARR-05VF	XARR-05V	10.0	15.0	15.4	18.7	1,000
6	XARR-06VF	XARR-06V	12.5	17.5	17.9	21.2	500
7	—	XARR-07V	15.0	20.0	20.4	23.7	500
8	XARR-08VF	XARR-08V	17.5	22.5	22.9	26.2	500
9	XARR-09VF	XARR-09V	20.0	25.0	25.4	28.7	500
10	XARR-10VF	XARR-10V	22.5	27.5	27.9	31.2	500
11	—	XARR-11V	25.0	30.0	30.4	33.7	500
12	XARR-12VF	XARR-12V	27.5	32.5	32.9	36.2	500
13	—	XARR-13V	30.0	35.0	35.4	38.7	500
14	—	XARR-14V	32.5	37.5	37.9	41.2	500
15	—	XARR-15V	35.0	40.0	40.4	43.7	500

Material	
PA 66, UL94V-0, natural (white)	

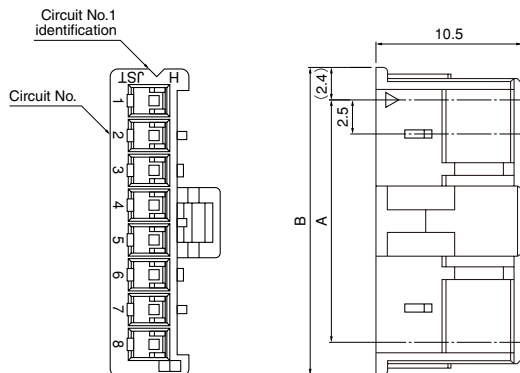
RoHS compliance
Note: C and D dimensions: Panel layout dimensions

Plug housing (for socket contact)

Standard type



Retainer mountable type



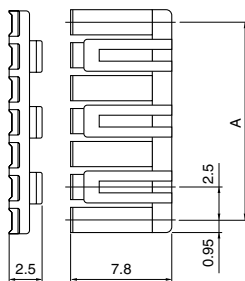
Circuits	Model No.		Dimensions (mm)		Q'ty / bag	
	Standard type	Retainer mountable type	A	B	Standard type	Retainer mountable type
2	XAP-02V-1	XARP-02V	2.5	7.3	1,000	1,000
3	XAP-03V-1	XARP-03V	5.0	9.8	1,000	1,000
4	XAP-04V-1	XARP-04V	7.5	12.3	1,000	1,000
5	XAP-05V-1	XARP-05V	10.0	14.8	1,000	1,000
6	XAP-06V-1	XARP-06V	12.5	17.3	1,000	1,000
7	XAP-07V-1	XARP-07V	15.0	19.8	1,000	1,000
8	XAP-08V-1	XARP-08V	17.5	22.3	1,000	1,000
9	XAP-09V-1	XARP-09V	20.0	24.8	1,000	1,000
10	XAP-10V-1	XARP-10V	22.5	27.3	1,000	1,000
11	XAP-11V-1	XARP-11V	25.0	29.8	1,000	1,000
12	XAP-12V-1	XARP-12V	27.5	32.3	1,000	1,000
13	XAP-13V-1	XARP-13V	30.0	34.8	1,000	1,000
14	XAP-14V-1	XARP-14V	32.5	37.3	500	1,000
15	XAP-15V-1	XARP-15V	35.0	39.8	500	1,000

Material

PA 66, UL94V-0, natural (white)

RoHS compliance

Retainer

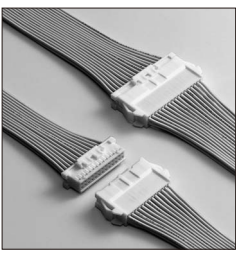


Circuits	Model No.	A	Q'ty / bag
2	XMS-02V	2.5	1,000
3	XMS-03V	5.0	1,000
4	XMS-04V	7.5	1,000
5	XMS-05V	10.0	1,000
6	XMS-06V	12.5	1,000
7	XMS-07V	15.0	1,000
8	XMS-08V	17.5	1,000
9	XMS-09V	20.0	1,000
10	XMS-10V	22.5	1,000
11	XMS-11V	25.0	1,000
12	XMS-12V	27.5	1,000
13	XMS-13V	30.0	1,000
14	XMS-14V	32.5	1,000
15	XMS-15V	35.0	1,000

Material

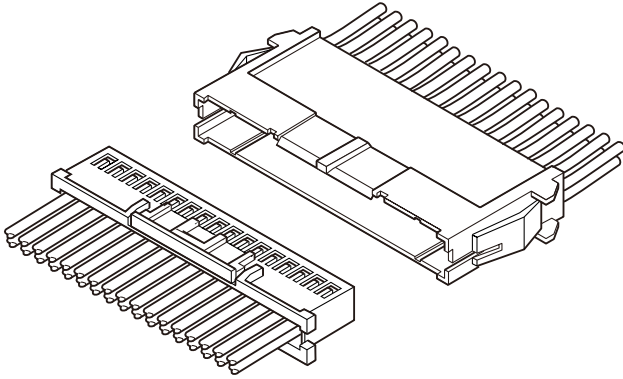
Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance



XAD CONNECTOR

2.5mm pitch/Disconnectable Crimp style wire-to-wire connectors



2.5mm pitch grid (dual in row) wire-to-wire connector that can mate with the socket of XAD connector (board-to-wire type).

- Possible to mate with the existing XAD socket
- Inner type contact lance
- Mountable on a variety of panels
- Secure lock construction

Specifications

- Current rating: 3A AC, DC max. (AWG #20)
- Voltage rating: 250V AC, DC max.
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #28 to #20
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

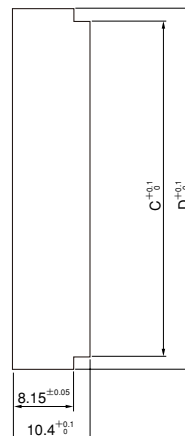
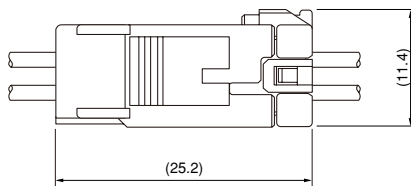
Standards

 Recognized E60389

 Certified LR20812

 R9851219

Panel layout and Assembly layout

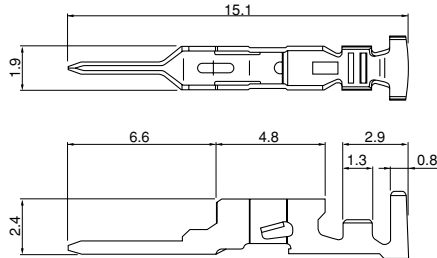


Note: C and D dimensions: Refer to receptacle housing.

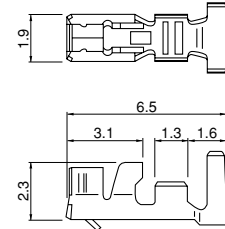
XAD CONNECTOR

Contact

Pin contact



Socket contact



Model No.		Applicable wire		Insulation O.D.(mm)	Q'ty / reel	
Pin contact	Socket contact	mm ²	AWG #		Pin contact	Socket contact
SXAM-001T-P0.6	SXA-001T-P0.6	0.08~0.33	28~22	0.8~1.9	7,000	8,000
SXAM-01T-P0.6	SXA-01T-P0.6	0.22~0.5	24~20	1.5~1.9	7,000	8,000
—	SXA-001T-P0.6L	0.13~0.33	26~22	1.3~1.7	—	8,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Note: Contact JST for gold-plated products.

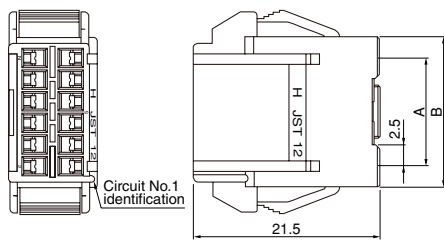
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXA-001T-P0.6	AP-K2N	MKS-L	MK/SXAM/XA-001-06	APLMK SXAM/XA001-06
		*MKS-SC	SC/SXAM/XA-001-06	APLSC SXAM/XA001-06
SXA-01T-P0.6		MKS-L	MK/SXAM/XA-01-06	APLMK SXAM/XA01-06
		*MKS-SC	SC/SXAM/XA-01-06	APLSC SXAM/XA01-06
SXA-001T-P0.6L		MKS-L	MK/SXA-001-06L	APLMK SXA001-06L
		*MKS-SC	SC/SXA-001-06L	APLSC SXA001-06L

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXAM-001T-P0.6	AP-K2N	MKS-L	MK/SXAM/XA-001-06	APLMK SXAM/XA001-06
		*MKS-SC	SC/SXAM/XA-001-06	APLSC SXAM/XA001-06
SXAM-01T-P0.6		MKS-L	MK/SXAM/XA-01-06	APLMK SXAM/XA01-06
		*MKS-SC	SC/SXAM/XA-01-06	APLSC SXAM/XA01-06

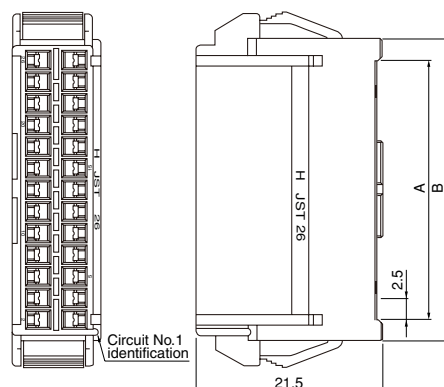
Note: *Strip-crimp applicator

Receptacle housing (for pin contact)

8 to 16 circuits



18 to 40 circuits



Circuits	Model No.	Dimensions (mm)				Q'ty / bag
		A	B	C	D	
8	XADR-08V	7.5	12.5	12.9	16.2	1,000
10	XADR-10V	10.0	15.0	15.4	18.7	500
12	XADR-12V	12.5	17.5	17.9	21.2	500
14	XADR-14V	15.0	20.0	20.4	23.7	500
16	XADR-16V	17.5	22.5	22.9	26.2	300
18	XADR-18V	20.0	25.0	25.4	28.7	300
20	XADR-20V	22.5	27.5	27.9	31.2	300
22	XADR-22V	25.0	30.0	30.4	33.7	300
24	XADR-24V	27.5	32.5	32.9	36.2	300
26	XADR-26V	30.0	35.0	35.4	38.7	300
28	XADR-28V	32.5	37.5	37.9	41.2	300
30	XADR-30V	35.0	40.0	40.4	43.7	300
32	XADR-32V	37.5	42.5	42.9	46.2	300
34	XADR-34V	40.0	45.0	45.4	48.7	200
36	XADR-36V	42.5	47.5	47.9	51.2	200
40	XADR-40V	47.5	52.5	52.9	56.2	200

Material

PA 66, UL94V-0, natural (white)

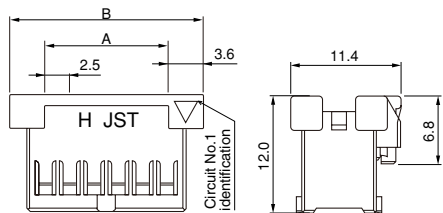
RoHS compliance

Note: C and D dimensions: Panel layout dimensions

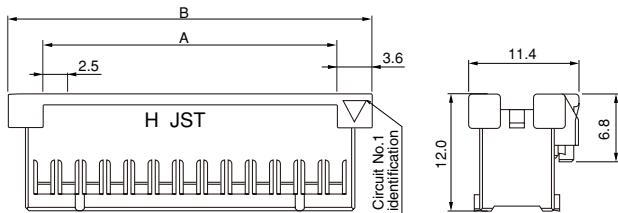
XAD CONNECTOR

Plug housing (for socket contact)

8 to 16 circuits



18 to 40 circuits

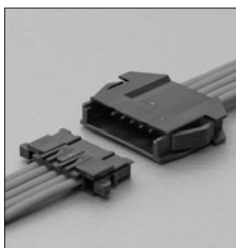


Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
8	XADRP-08V	7.5	14.7	1,000
10	XADRP-10V	10.0	17.2	1,000
12	XADRP-12V	12.5	19.7	1,000
14	XADRP-14V	15.0	22.2	1,000
16	XADRP-16V	17.5	24.7	1,000
18	XADRP-18V	20.0	27.2	1,000
20	XADRP-20V	22.5	29.7	500
22	XADRP-22V	25.0	32.2	500
24	XADRP-24V	27.5	34.7	500
26	XADRP-26V	30.0	37.2	500
28	XADRP-28V	32.5	39.7	500
30	XADRP-30V	35.0	42.2	500
32	XADRP-32V	37.5	44.7	500
34	XADRP-34V	40.0	47.2	500
36	XADRP-36V	42.5	49.7	500
40	XADRP-40V	47.5	54.7	250

Material

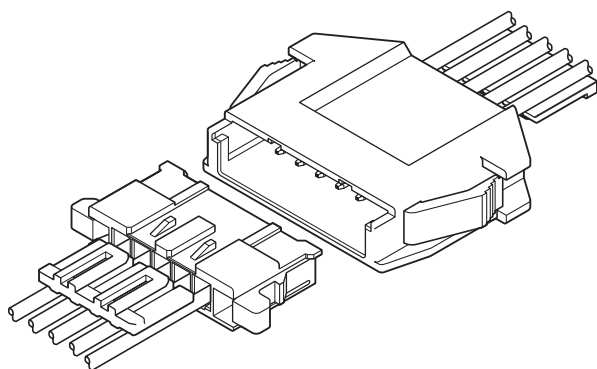
PA 66, UL94V-0, natural (white)

RoHS compliance



XAG CONNECTOR

2.5mm pitch/Crimp style Wire-to-wire connectors



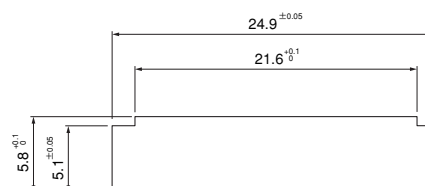
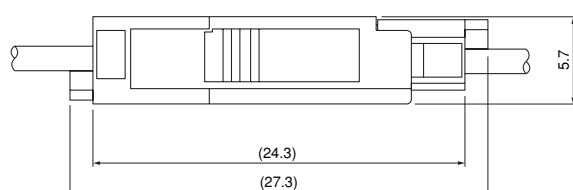
This is a 2.5mm pitch, crimp style, wire-to-wire connector.

- **Secure locking device**
- **Panel locking device**
- **Thin design**
- **Retainer mountable type**

Specifications

- Current rating: 3A AC, DC (AWG #20)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 10m Ω max.
After environmental testing/ 20m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #24 to #20
- Applicable PC board thickness: 0.5 to 2mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Assembly layout and Panel layout

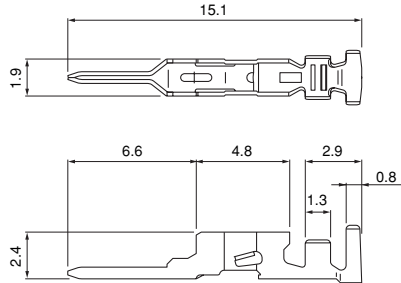


Note: 1. Punch holes in the panel according to the figures shown above. Burrs must be removed.
2. The strength of the panel must be considered when punching two or more holes.
3. The connector must be inserted from the same side as the hole is punched.

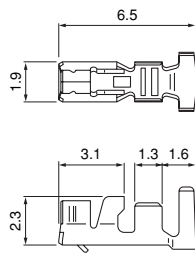
XAG CONNECTOR

Contact

Pin contact



Socket contact



Model No.		Applicable wire		Insulation O.D. (mm)	Q'ty / reel	
Pin contact	Socket contact	mm ²	AWG #		Pin contact	Socket contact
SXAM-01T-P0.6	SXA-01T-P0.6	0.22~0.5	24~20	1.5~1.9	7,000	8,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

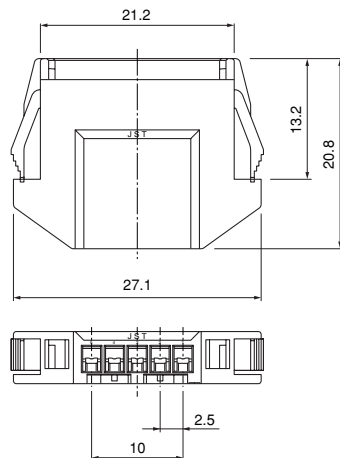
Note: Contact JST for gold-plated products.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXAM-01T-P0.6	AP-K2N	MKS-L	MK/SXAM/XA-01-06	APLMK SXAM/XA01-06
		*MKS-SC	SC/SXAM/XA-01-06	APLSC SXAM/XA01-06
SXA-01T-P0.6	AP-K2N	MKS-L	MK/SXAM/XA-01-06	APLMK SXAM/XA01-06
		*MKS-SC	SC/SXAM/XA-01-06	APLSC SXAM/XA01-06

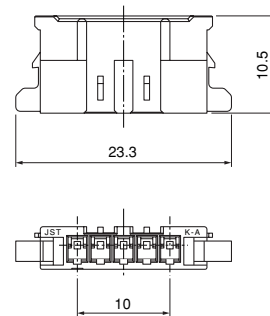
Note: *Strip-crimp applicator

Housing

Plug housing For pin contact



Receptacle housing For socket contact



Circuits	Model No.	Q'ty / bag
5	XAGR-053A-K	1,000

Material

PA 66, UL94V-0, black

RoHS compliance

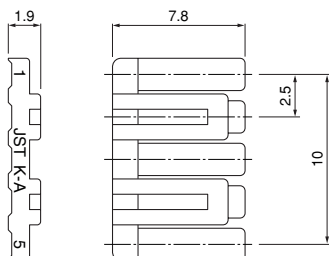
Circuits	Model No.	Q'ty / bag
5	XAGRP-051-K	2,000

Material

PBT, UL94V-0, black

RoHS compliance

Retainer

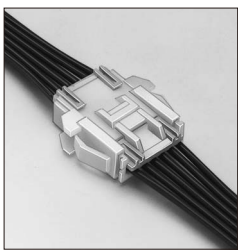


Circuits	Model No.	Q'ty / box
5	XAGS-053-K	5,000

Material

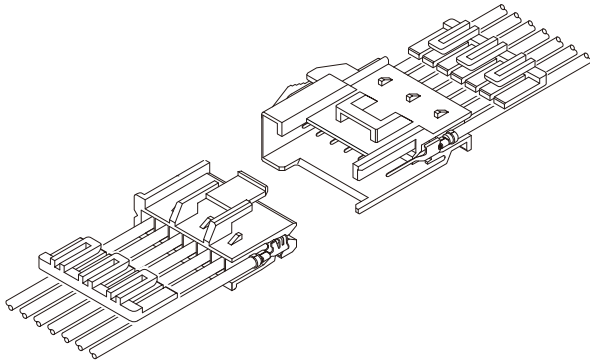
PA 66, UL94V-0, black

RoHS compliance



XM CONNECTOR

2.5mm pitch/Crimp style wire-to-wire connectors



The retainer provides added protection against non-insertion or disconnection.

- Inner-housing lock
- Secondary retainers
- Housing lance
- Mountable on a variety of panels
- Contacts smoothly insert into the housings without colliding with internal obstacles

Specifications

- Current rating: 3A AC, DC max.
- Voltage rating: 250V AC, DC max.
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #28 to #20
0.08 to 0.50mm²
- Applicable panel thickness: 0.5 to 1.8mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

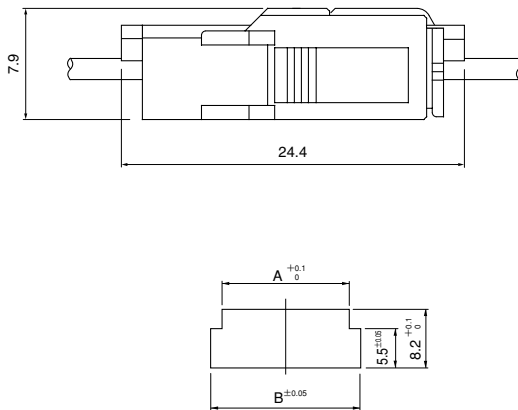
Standards

Recognized E60389

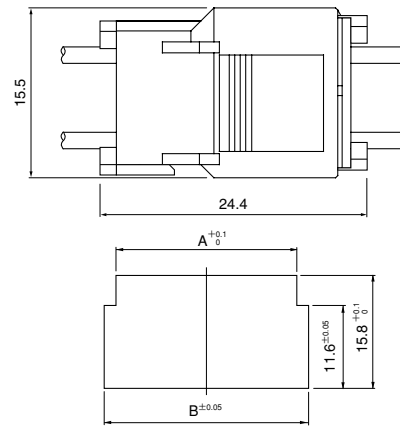
Certified LR20812

Panel Layout and Assembly layout

(2 to 12 circuits)



(18 circuits)



Circuits	Receptacle housing	Panel hole dimensions (mm)		General tolerance	Applicable panel thickness (mm)
		A ^{+0.1/0}	B ^{+0.05/0}		
2	XMR-02V	9.3	12.6		0.5~1.8
3	XMR-03V	10.3	13.6		
4	XMR-04V	12.8	16.1		
5	XMR-05V	15.3	18.6		
6	XMR-06V	17.8	21.1		
7	XMR-07V	20.3	23.6		
8	XMR-08V	22.8	26.1		
9	XMR-09V	25.3	28.6		
10	XMR-10V	27.8	31.1		
11	XMR-11V	30.3	33.6		
12	XMR-12V	32.8	36.1		
18	XMR-18V	25.3	28.6		

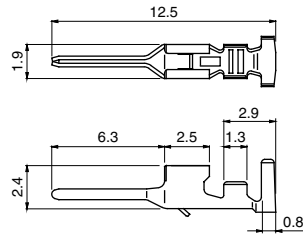
Note: 1. Punch holes in the panel according to the sketch and table shown above. Burrs must be removed.

2. The strength of the panel must be considered when punching two or more holes.

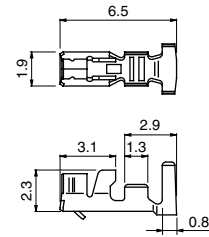
3. The connector must be inserted from the same side as the hole is punched.

Contact

Pin contact



Socket contact



Model No.		Applicable wire		Insulation O.D. (mm)	Q'ty / reel	
Pin contact	Socket contact	mm ²	AWG #		Pin contact	Socket contact
SXM-001T-P0.6	SXA-001T-P0.6	0.08~0.33	28~22	0.8~1.9	7,000	8,000
*SXM-01T-P0.6	SXA-01T-P0.6	0.22~0.50	24~20	1.5~1.9	7,000	8,000
—	SXA-001T-P0.6L	0.13~0.33	26~22	1.3~1.9	—	8,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Note: 1. Contact JST for special products.

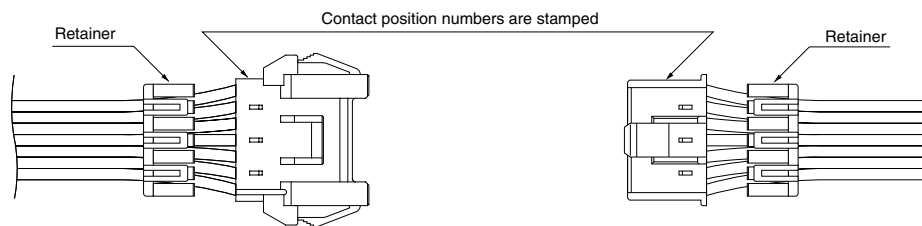
2. *Marked product is not UL/CSA approved.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXM-001T-P0.6	AP-K2N	MKS-L	MK/SXA/M-001-06	APLMK SXA/M001-06
		*MKS-SC	SC/SXA/M-001-06	APLSC SXA/M001-06
SXM-01T-P0.6		MKS-L	MK/SXA/M-01-06	APLMK SXA/M01-06
		*MKS-SC	SC/SXA/M-01-06	APLSC SXA/M01-06

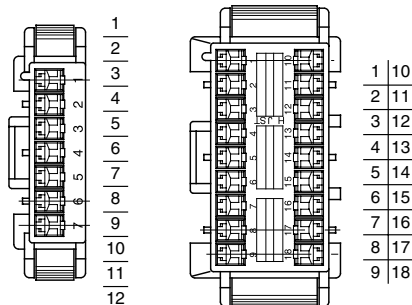
Note: *Strip-crimp applicator

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXA-001T-P0.6	AP-K2N	MKS-L	MK/SXA/M-001-06	APLMK SXA/M001-06
		*MKS-SC	SC/SXA/M-001-06	APLSC SXA/M001-06
SXA-01T-P0.6		MKS-L	MK/SXA/M-01-06	APLMK SXA/M01-06
		*MKS-SC	SC/SXA/M-01-06	APLSC SXA/M01-06
SXA-001T-P0.6L		MKS-L	MK/SXA-001-06L	APLMK SXA001-06L
		*MKS-SC	SC/SXA-001-06L	APLSC SXA001-06L

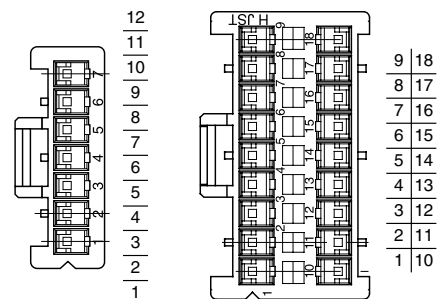
Contact position location numbers



Receptacle housing

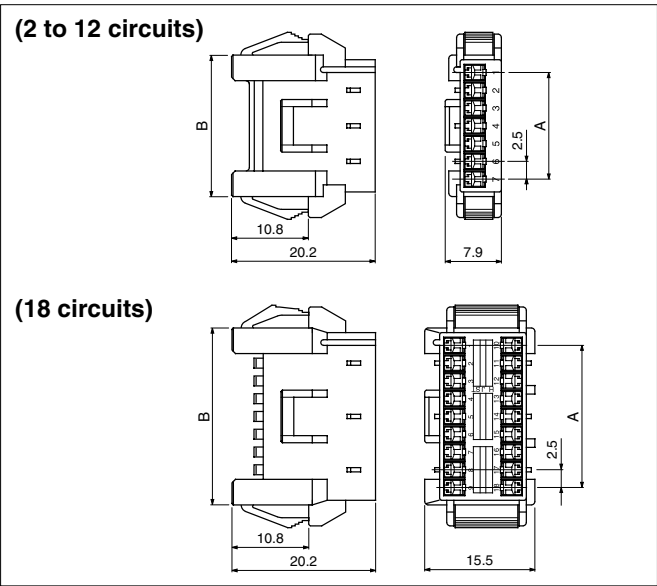


Plug housing



XM CONNECTOR

Receptacle housing (for Pin contact)

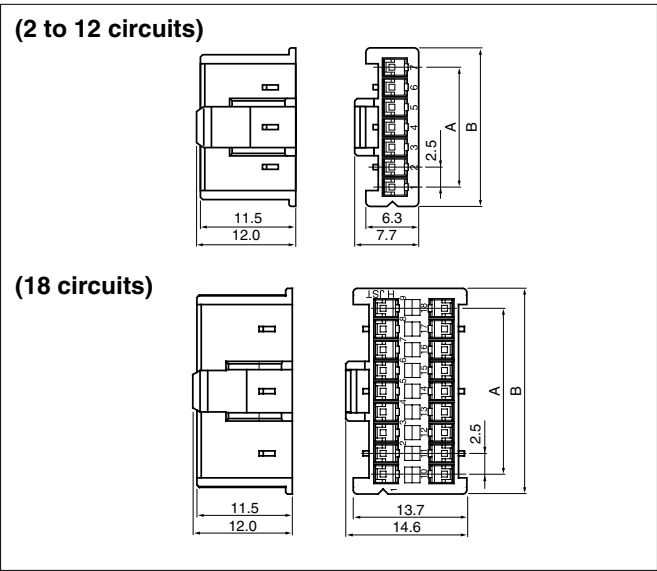


Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	XMR-02V	2.5	8.9	1,000
3	XMR-03V	5.0	9.9	1,000
4	XMR-04V	7.5	12.4	500
5	XMR-05V	10.0	14.9	500
6	XMR-06V	12.5	17.4	500
7	XMR-07V	15.0	19.9	500
8	XMR-08V	17.5	22.4	500
9	XMR-09V	20.0	24.9	500
10	XMR-10V	22.5	27.4	500
11	XMR-11V	25.0	29.9	500
12	XMR-12V	27.5	32.4	500
18	XMR-18V	20.0	24.9	500

Material				
PA 66, UL94V-0				

RoHS compliance
Note: Receptacle housings without panel lock device are also available for 2, 3, 4, 6, 7, 8 and 9 circuits.

Plug housing (for Socket contact)

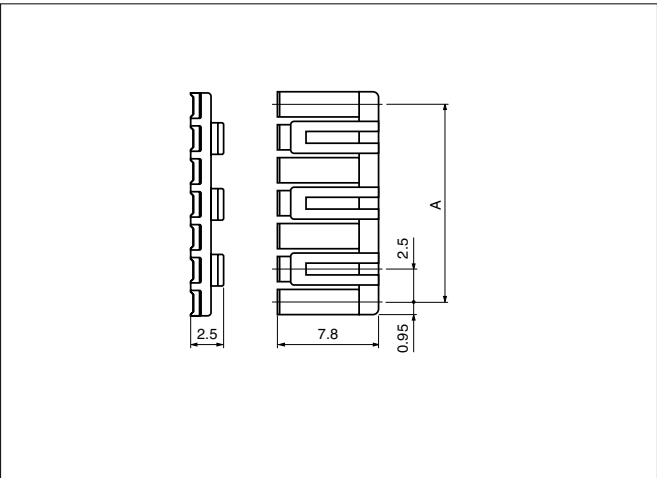


Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	XMP-02V	2.5	8.8	1,000
3	XMP-03V	5.0	9.8	1,000
4	XMP-04V	7.5	12.3	1,000
5	XMP-05V	10.0	14.8	500
6	XMP-06V	12.5	17.3	500
7	XMP-07V	15.0	19.8	500
8	XMP-08V	17.5	22.3	500
9	XMP-09V	20.0	24.8	500
10	XMP-10V	22.5	27.3	500
11	XMP-11V	25.0	29.8	500
12	XMP-12V	27.5	32.3	500
18	XMP-18V	20.0	24.8	500

Material				
PA 66, UL94V-0				

RoHS compliance

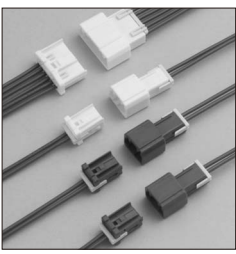
Retainer



Circuits	Model No.	Dimensions A (mm)	Q'ty / bag
2	XMS-02V	2.5	1,000
3	XMS-03V	5.0	1,000
4	XMS-04V	7.5	1,000
5	XMS-05V	10.0	1,000
6	XMS-06V	12.5	1,000
7	XMS-07V	15.0	1,000
8	XMS-08V	17.5	1,000
9 · 18	XMS-09V	20.0	1,000
10	XMS-10V	22.5	1,000
11	XMS-11V	25.0	1,000
12	XMS-12V	27.5	1,000

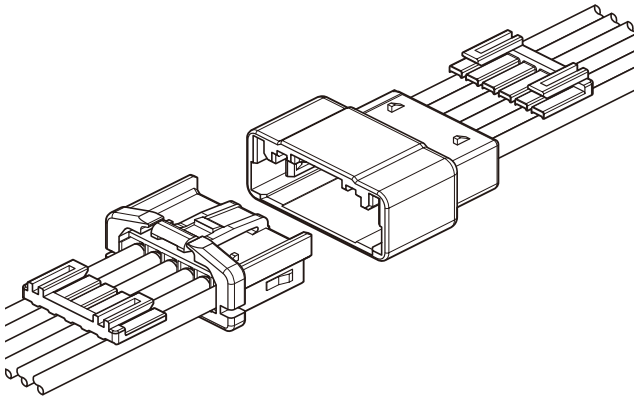
Material			
Glass-filled PA 66, UL94V-0			

RoHS compliance
Note: Commonly used for 9-circuit and 18-circuit housings.



XMA CONNECTOR

2.5mm pitch/Disconnectable Crimp style Wire-to-wire connectors



This connector is a 2.5mm pitch wire-to-wire connector, having incomplete mating prevention mechanism. 2-circuit and 3-circuit connectors have control key to prevent connector from mating with incorrect circuits, thus, several same circuit connectors can be used.

- ***Inertial lock structure with side lock mechanism***
- ***3 type combination of control key with one kind of circuit***
- ***Secure locking structure***
- ***Finger-friendly design***

Specifications

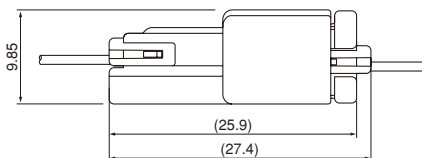
- Current rating: 3A AC, DC (AWG#22)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG#26 to #22
0.13mm² to 0.33mm²
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

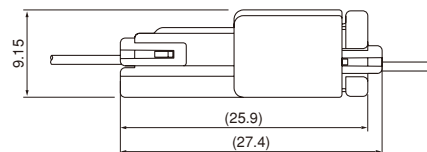
- Ⓜ Recognized E 60389
- Ⓢ Certified LR20812

Assembly layout

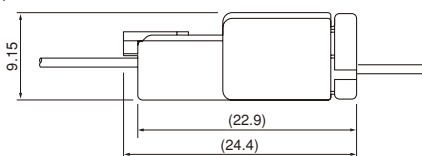
〈2, 3 circuits〉



〈4, 5 circuits〉



〈6 circuits〉

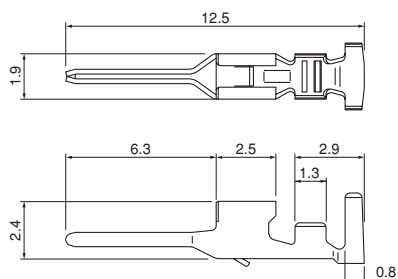


Note: The dimensions above should serve as a guideline. Contact JST for details.

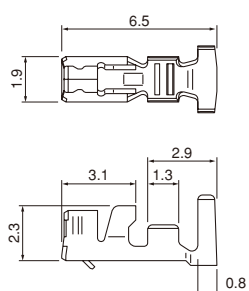
XMA CONNECTOR

Contact

● Pin contact



● Socket contact



Model No.		Applicable wire		Insulation O.D.	Q'ty / reel	
Pin contact	Socket contact	mm ²	AWG #	(mm)	Pin contact	Socket contact
SXM-001T-P0.6	SXA-001T-P0.6L	0.13~0.33	26~22	1.3~1.9	7,000	8,000

Material and Finish

Copper alloy, tin-plated (reflow treatment)

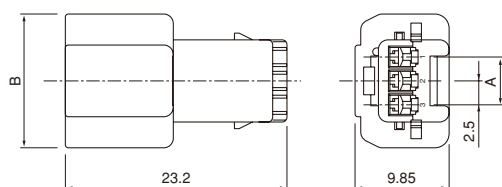
RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXM-001T-P0.6	AP-K2N	MKS-L	MK/SXA/M-001-06	APLMK SXA/M001-06
		*MKS-SC	SC/SXA/M-001-06	APLSC SXA/M001-06
SXA-001T-P0.6L		MKS-L	MK/SXA-001-06L	APLMK SXA001-06L
		*MKS-SC	SC/SXA-001-06L	APLSC SXA001-06L

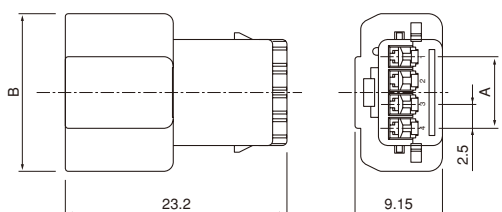
Note: *Strip-crimp applicator

Receptacle housing (for pin contact)

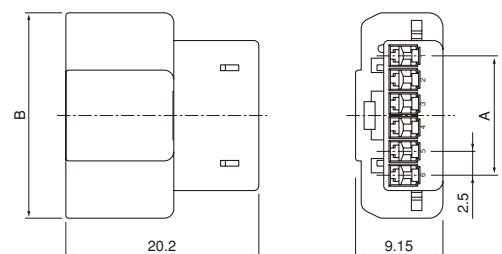
<2, 3 circuits>



<4, 5 circuits>



<6 circuits>



Circuits	Model No.	Color	Dimensions (mm)		Q'ty / bag
			A	B	
2	XMAR-02VF-1-S	Natural (white)	2.5	12.5	1,000
	XMAR-02VF-2-R	Red			
	XMAR-02VF-3-E	Blue			
3	XMAR-03VF-1-S	Natural (white)	5.0	14.0	1,000
	XMAR-03VF-2-R	Red			
	XMAR-03VF-3-E	Blue			
4	XMAR-04VF-S	Natural (white)	7.5	16.5	500
5	XMAR-05VF-S	Natural (white)	10.0	19.0	500
6	XMAR-06VF-S	Natural (white)	12.5	21.5	500

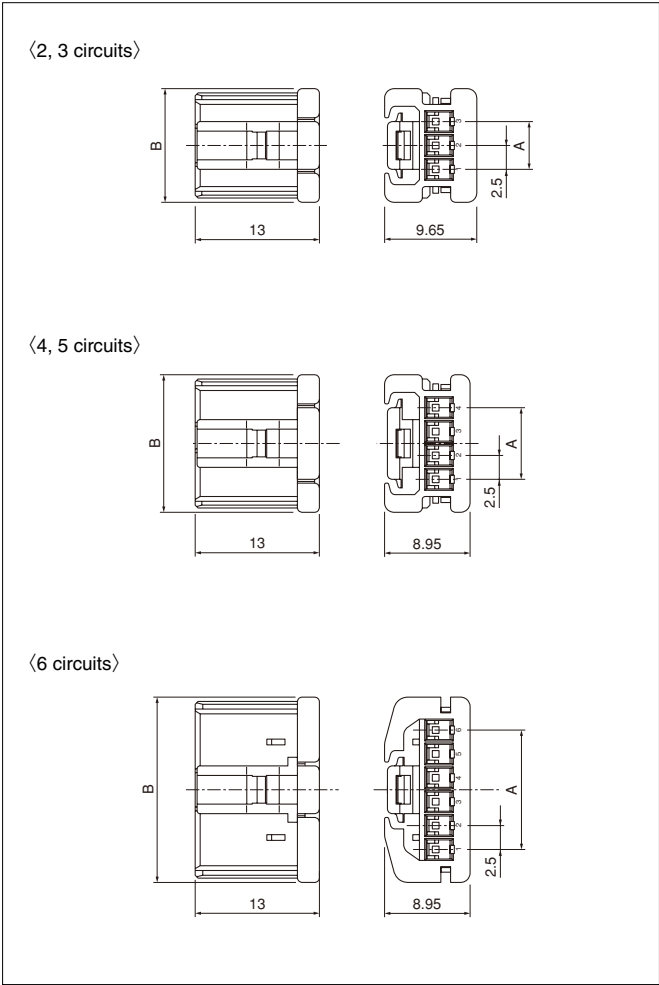
Material

Glass-filled PBT, UL94V-0

RoHS compliance

XMA CONNECTOR

Plug housing (for socket contact)



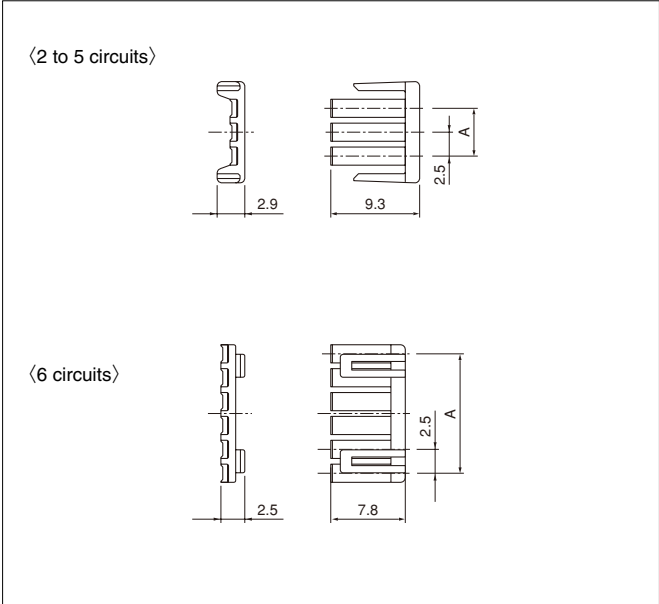
Circuits	Model No.	Color	Dimensions (mm)		Q'ty / bag
			A	B	
2	XMAP-02V-1-S	Natural (white)	2.5	9.4	1,000
	XMAP-02V-2-R	Red			
	XMAP-02V-3-E	Blue			
3	XMAP-03V-1-S	Natural (white)	5.0	11.9	1,000
	XMAP-03V-2-R	Red			
	XMAP-03V-3-E	Blue			
4	XMAP-04V-S	Natural (white)	7.5	14.4	1,000
5	XMAP-05V-S	Natural (white)	10.0	16.9	500
6	XMAP-06V-S	Natural (white)	12.5	19.4	500

Material

Glass-filled PBT, UL94V-0

RoHS compliance

Retainer



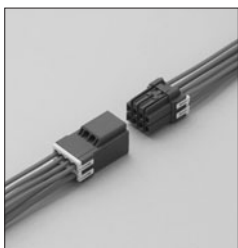
Circuits	Model No.	Color	Dimensions (mm)	Q'ty / bag
			A	
2	XMAS-02V-S	Natural (ivory)	2.5	1,000
3	XMAS-03V-S	Natural (ivory)	5.0	1,000
4	XMAS-04V-S	Natural (ivory)	7.5	1,000
5	XMAS-05V-S	Natural (ivory)	10.0	1,000
6	XMS-06V	Natural (ivory)	12.5	1,000

Material

Glass-filled PA 66, UL94V-0

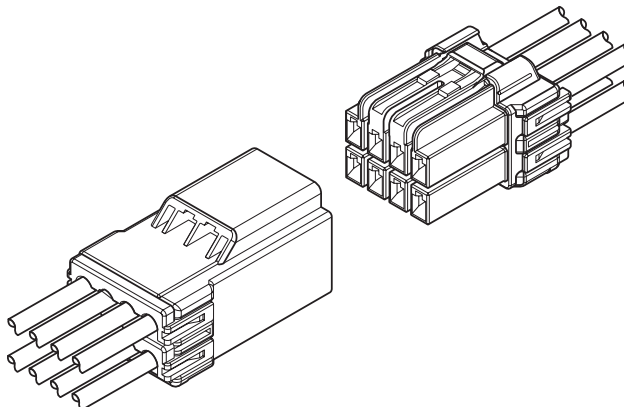
RoHS compliance

Note: 6 circuits of retainer is interchangeable with those of the XM and XA connectors.



HIL CONNECTOR

3.3mm pitch/Crimp style Wire-to-wire connectors

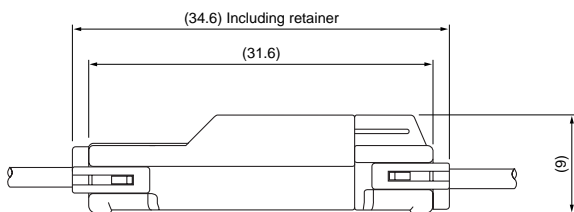


This HIL connector is 3.3mm pitch wire-to-wire connector that has a mechanism to prevent an incomplete mating when mating connector.

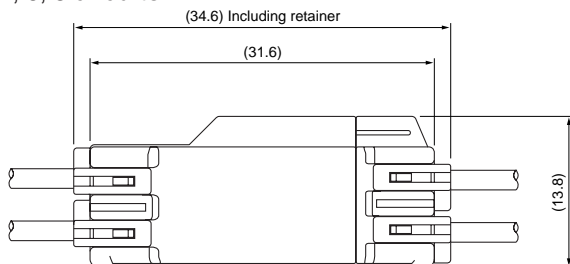
- **Inertia lock mechanism to prevent an incomplete mating**
- **Box-shaped contact to prevent the influence by external forces**
- **Polarizing key to prevent connector from mating with incorrect circuits**

Assembly layout

<2, 3 circuits>



<4, 6, 8 circuits>



Specifications

- Current rating: 5A AC, DC (2 circuits AWG #18)
- Voltage rating: 300V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m max.
After environmental testing/20m max.
- Insulation resistance: 1,000M min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: Conductor size/01 type AWG #24 to #20
/21 type AWG #22 to #18
Insulation O.D./01 type 1.3 to 2.5mm
/21 type 1.5 to 2.7mm
(when using retainer for 21 type 1.5 to 2.5mm)
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Note: The current rating varies depending on the number of circuits and the wire size used in each connector. The table below lists the current rating as a function of the number of circuits and the wire size.

Current unit: A

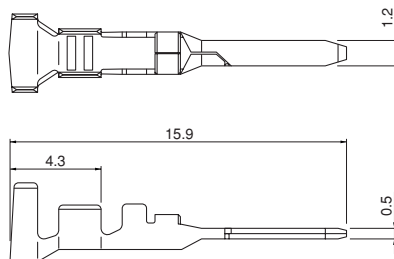
Circuits	Wire size (AWG)			
	#18	#20	#22	#24
2	5	4	3	3
3	4	4	3	2
4	3	3	2	2
6	3	3	2	2
8	3	3	2	2

List of combinations

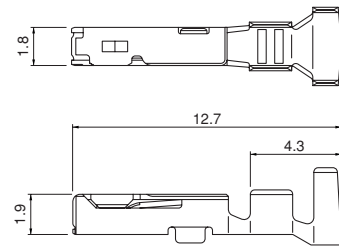
Resin color (Plug/Receptacle)	Natural	Red	Blue
Polarizing key pattern	Polarizing key pattern 1	Polarizing key pattern 2	Polarizing key pattern 3
Plug Model No.	HILP-()V-1-S	HILP-()V-2-R	HILP-()V-3-E
Receptacle Model No.	HILR-()VF-1-S	HILR-()VF-2-R	HILR-()VF-3-E

Contact

Pin contact



Socket contact



Model No.		Applicable wire		Insulation O.D. (mm)	Q'ty / reel
Pin contact	Socket contact	mm ²	AWG #		
SHIM-01T-P0.5	SHIF-01T-P0.5	0.2~0.5	24~20	1.3~2.5	5,000
SHIM-21T-P0.5	SHIF-21T-P0.5	0.3~0.75	22~18	1.5~2.7	5,000

Material and Finish

Copper alloy, tin-plated

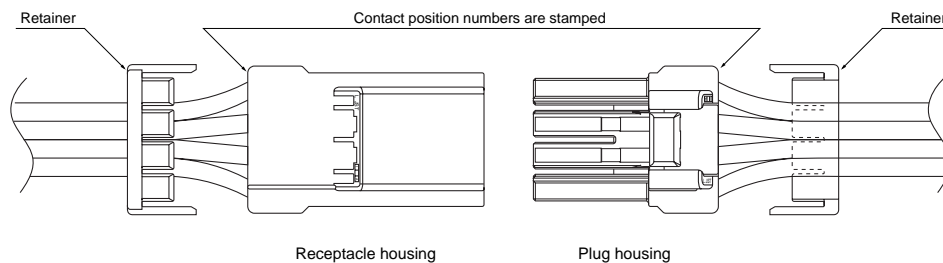
RoHS compliance

Note: Insulation O.D. is 1.5mm to 2.5mm when using retainer for 21 type barrel size contact.

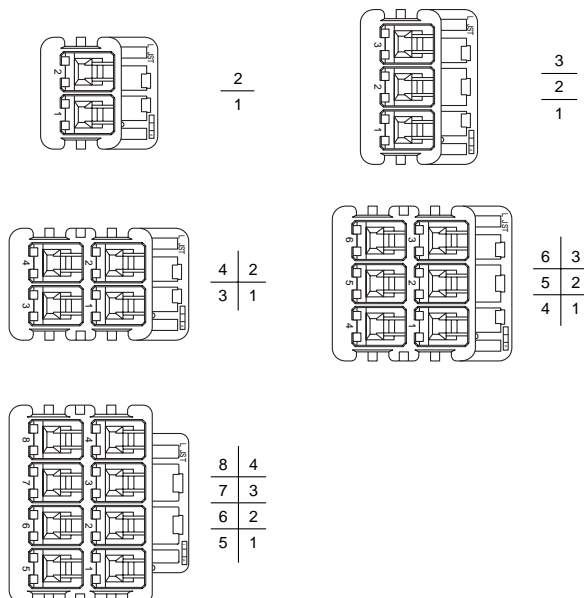
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SHIM-01T-P0.5	AP-K2N	MKS-L	MK/SHIF/M-01-05	APLMK SHIF/M01-05
SHIM-21T-P0.5			MK/SHIF/M-21-05	APLMK SHIF/M21-05

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SHIF-01T-P0.5	AP-K2N	MKS-L	MK/SHIF/M-01-05	APLMK SHIF/M01-05
SHIF-21T-P0.5			MK/SHIF/M-21-05	APLMK SHIF/M21-05

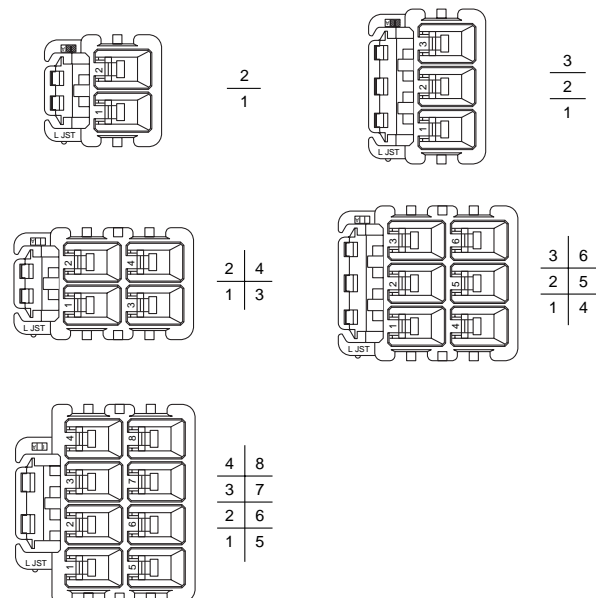
Contact position location numbers



Receptacle housing



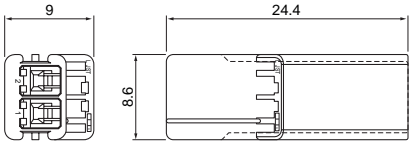
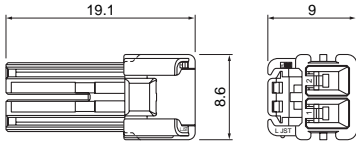
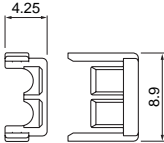
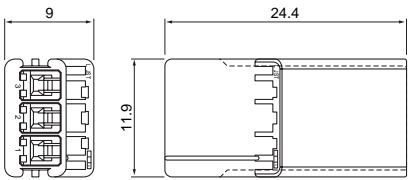
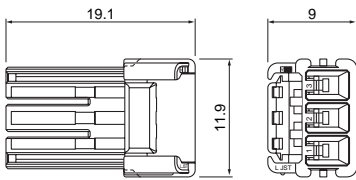
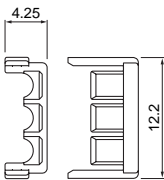
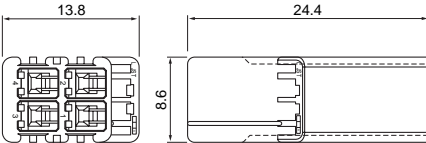
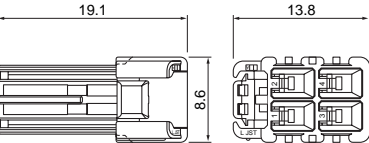
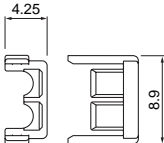
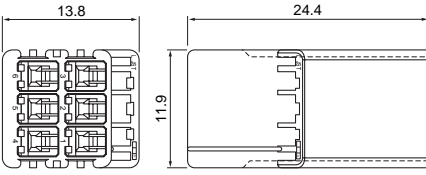
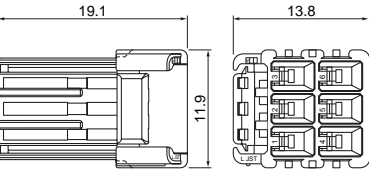
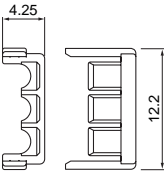
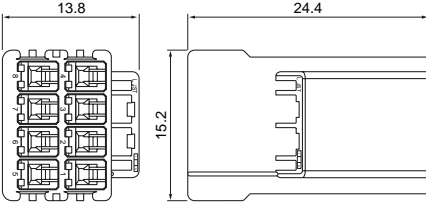
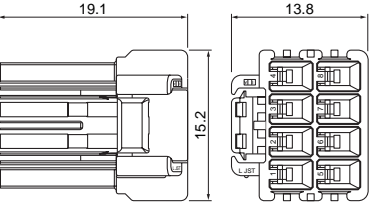
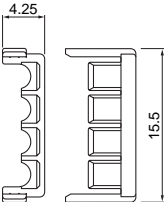
Plug housing



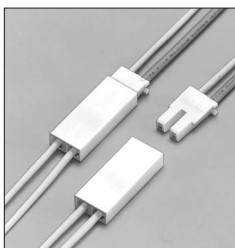
HIL CONNECTOR

Housing

Material: Housing...PA 66, UL94V-0, natural
Retainer...Glass-filled PA 66, UL94V-0, natural

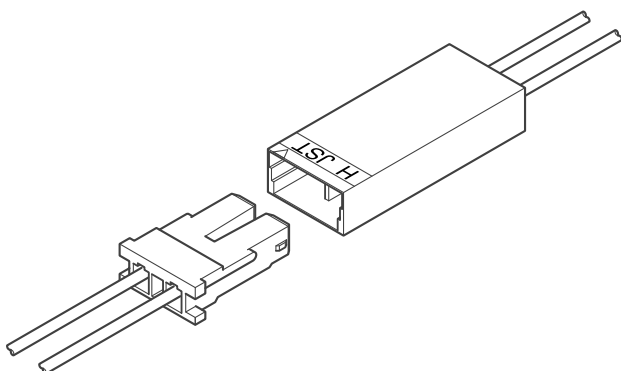
Circuits	Voltage rating	Current rating	Receptacle housing (for pin contact)		Plug housing (for socket contact)		Retainer	
2	300V	5A	HILR-02VF-1-S	Q'ty / bag	HILP-02V-1-S	Q'ty / bag	HILS-02V (commonly used for 2-circuit housing and 4-circuit housing)	Q'ty / bag
				1,000		1,000		1,000
3	300V	4A	HILR-03VF-1-S	Q'ty / bag	HILP-03V-1-S	Q'ty / bag	HILS-03V (commonly used for 3-circuit housing and 6-circuit housing)	Q'ty / bag
				1,000		1,000		1,000
4	300V	3A	HILR-04VF-1-S	Q'ty / bag	HILP-04V-1-S	Q'ty / bag	HILS-02V (commonly used for 2-circuit housing and 4-circuit housing)	Q'ty / bag
				1,000		1,000		1,000
6	300V	3A	HILR-06VF-1-S	Q'ty / bag	HILP-06V-1-S	Q'ty / bag	HILS-03V (commonly used for 3-circuit housing and 6-circuit housing)	Q'ty / bag
				500		1,000		1,000
8	300V	3A	HILR-08VF-1-S	Q'ty / bag	HILP-08V-1-S	Q'ty / bag	HILS-04V	Q'ty / bag
				500		1,000		1,000

RoHS compliance
Note: Current rating is for use with AWG #18 wire.



BHS CONNECTOR

3.5mm pitch/Disconnectable Crimp style Wire-to-wire connectors



Wire-to-wire version connectors, designed for connecting liquid crystal display back light lamp to their starters.

- Compact and applicable to high voltage
- Adopt wide large for socket contact

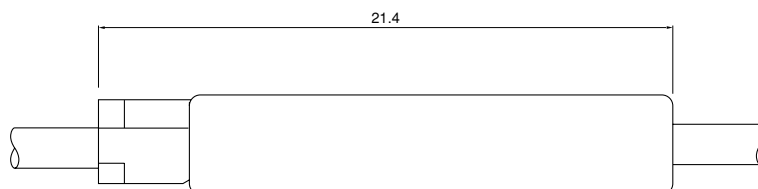
Specifications

- Current rating: 1.0A AC, DC
- Voltage rating: 1,400V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 3,800V AC/minute
- Applicable wire: Socket contact Conductor AWG #28 to #24
Insulation O.D./ 0.9 to 1.7mm
Pin contact Conductor AWG #28 to #24
Insulation O.D./ 0.9 to 1.8mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

- Recognized E60389
- Certified LR20812

Assembly layout



BHS CONNECTOR

Contact

Pin contact

Socket contact

Model No.		Applicable wire		Insulation O.D. (mm)		Q'ty / reel	
Pin contact	Socket contact	mm²	AWG #	Pin contact	Socket contact	Pin contact	Socket contact
SBHSM-002T-P0.5	SBHS-002T-P0.5A	0.08~0.22	28~24	0.9~1.8	0.9~1.7	5,000	10,000

Material and Finish	
Phosphor bronze, tin-plated (reflow treatment)	

RoHS compliance
Note: Contact JST for SBHS-002T-P0.5.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SBHSM-002T-P0.5	AP-K2N	MKS-L	MK-/SBHSM-002-05	APLMK SBHSM002-05
		—	—	—

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SBHS-002T-P0.5A	AP-K2N	MKS-L	MK-/SBHS-002-05	APLMK SBHS002-05
		—	—	—

Housing

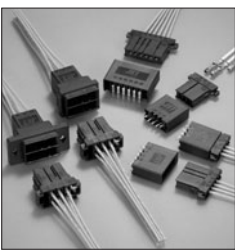
Receptacle housing (for pin contact)

Socket housing (for socket contact)

Model No.		Q'ty / bag
Receptacle housing	Socket housing	
BHSMR-02VS	BHSR-02VS-1 (N)	1,000

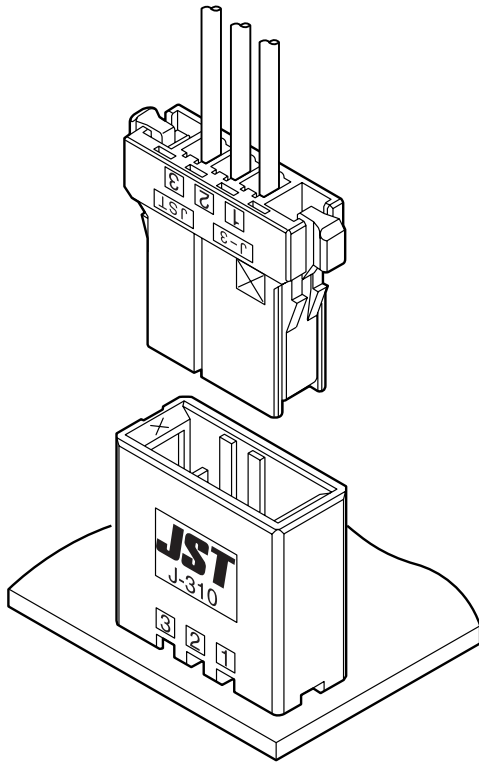
Material	
PA 66, UL94V-0, natural (white)	

RoHS compliance
Note: Contact JST for BHSR-02VS-1.



JFA CONNECTOR J300 SERIES

3.81, 5.08mm pitch/Disconnectable Crimp style connectors(Wire-to-board/Wire-to-wire)



Connectors for signal circuit or power supply circuit, applicable to the factory automation, heavy electric machinery, and other industrial equipment in general. In spite of the various kinds of housings available, their contacts are designed to be common. The applicable tooling can be standardized.

- Double-spring construction
- Housing lances
- Secure locking method
- Recognition mark

Specifications

- Current rating: 15A AC, DC (Single circuit/AWG #14)
- Voltage rating: 310, 340 series [3.81mm pitch] 250V AC, DC
320, 350 series, 360T [5.08mm pitch] 600V AC, DC
- Temperature range: -55°C to +105°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/5mΩ max.
After environmental testing/10mΩ max.
- Insulation resistance: 1,000MΩ min.
- Withstanding voltage:
310, 340 series [3.81mm pitch] 1,500V AC/minute
320, 350 series, 360T [5.08mm pitch] 2,200V AC/minute
- Applicable wire: AWG #28 to #14 (0.08 to 2.0mm²)
- Applicable PC board thickness: 1.6 to 2.4mm

*Contact JST for details.

*Compliant with RoHS.

Current rating

Unit: A

Circuits	Wire size (AWG)							
	#14	#16	#18	#20	#22	#24	#26	#28
1	15.0	14.0	11.5	9.5	8.0	6.5	5.75	4.75
2	13.5	13.5	11.25	9.25	7.5	6.25	5.5	4.5
3	12.25	12.25	10.5	8.5	7.0	5.75	5.0	4.1
4	11.25	11.25	10.0	8.0	6.5	5.5	4.75	4.0
5	10.5	10.5	9.5	7.5	6.25	5.25	4.5	4.0
6	9.75	9.75	9.0	7.0	6.0	5.0	4.25	3.75
8	9.0	9.0	8.25	6.5	5.5	4.5	3.75	3.25
9	8.5	8.5	8.0	6.25	5.25	4.5	3.75	3.25
10	8.5	8.5	8.0	6.25	5.25	4.5	3.75	3.25
12	8.25	8.25	7.75	6.0	5.0	4.0	3.5	3.0
16	8.0	8.0	7.5	6.0	4.75	4.0	3.5	3.0
20	8.0	8.0	7.25	6.0	4.5	4.0	3.5	2.75

Standards

Recognized E60389

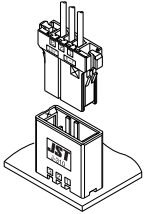
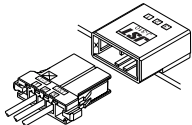
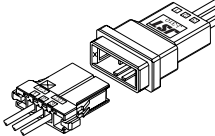
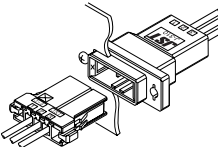
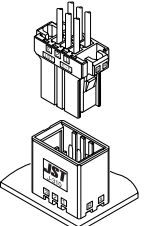
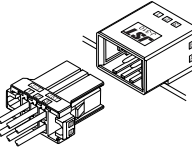
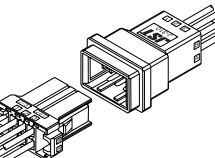
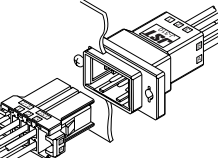
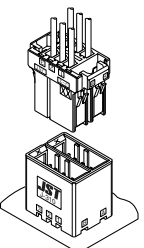
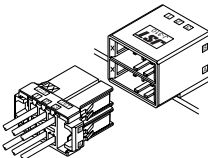
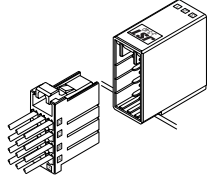
Certified LR20812

R50133261

JFA CONNECTOR/J300 SERIES

List of J300 series products

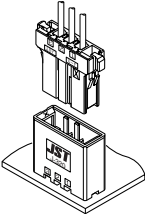
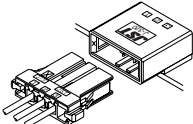
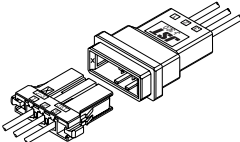
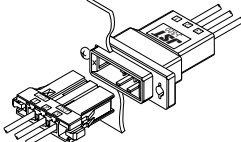
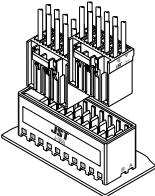
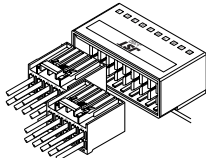
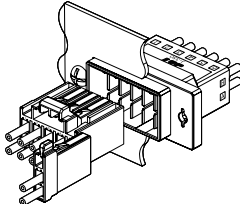
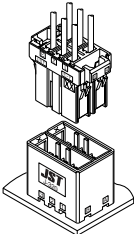
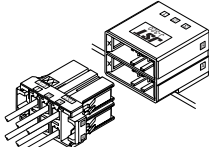
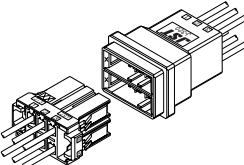
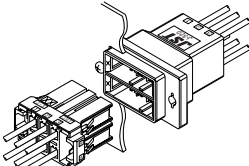
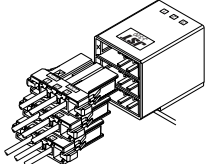
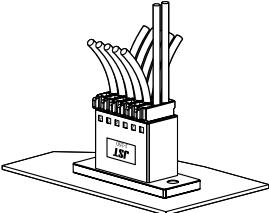
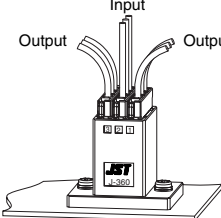
3.81mm pitch / Voltage rating 250V AC, DC

Type	Wire-to-board		Wire-to-wire	
	Top entry type	Side entry type	Free hanging type	Panel mounting type
J310S Single-row type				
Circuits	3, 4, 5, 6, 8, 10	3, 4, 5, 6, 8, 10	3, 5, 8, 10	3, 5, 8, 10
J310D Double-row type [line pitch 5.08mm]				
Circuits	6, 8, 10, 12, 16, 20	6, 8, 10, 12, 16, 20	6, 8, 10, 12, 16, 20	6, 8, 10, 12, 16, 20
J310M Double-row module type [line pitch 7.62mm]				
Circuits	6	6		
J340F Four-row type [line pitch 5.08mm]				
Circuits		12, 20		
—				
Circuits				

JFA CONNECTOR/J300 SERIES

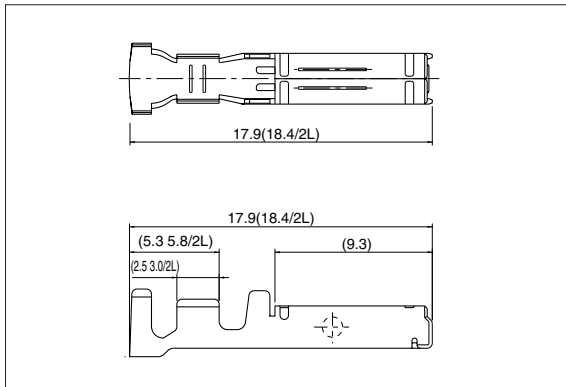
List of J300 series products

5.08mm pitch / Voltage rating 600V AC, DC

Wire-to-board		Wire-to-wire		Type
Top entry type	Side entry type	Free hanging type	Panel mounting type	
				J320S Single-row type
2, 3, 4, 5, 6	2, 3, 4, 5, 6	1, 2, 3, 4	1, 2, 3, 4	Circuits
				J350D Double-row type [line pitch 5.08mm]
12, 20	12, 20		12	Circuits
				J320M Double-row module type [line pitch 7.62mm]
6,10,12	6, 8,10,12	6,12	6,12, 20	Circuits
				J320T Triple-row module type [line pitch 7.62mm]
	9			Circuits
Double-row common type (J350DC)		Triple-row common type (J360T)		Type
	(line pitch 5.08mm)		(line pitch 6.5mm)	
12		9, 18, 24		Circuits

JFA CONNECTOR/J300 SERIES

Receptacle contact



Model No.		Applicable wire			Insulation O.D. (mm)	Q'ty	
Strip contact	Loose piece	Nominal	mm ²	AWG#		reel	Box(Loose piece)
SF3F-002 (*) -P2.0	BF3F-002 (*) -P2.0	S	0.08~0.20	28~24	0.8~1.4	3,700	1,000
SF3F-01 (*) -P2.0	BF3F-01 (*) -P2.0	M	0.20~0.50	24~20	1.2~2.6	3,700	1,000
SF3F-41 (*) -P2.0	LF3F-41 (*) -P2.0	L	0.50~1.25	20~16	1.8~2.8	3,200	1,000
SF3F-71 () -P2.0	*BF3F-71 (*) -P2.0	2L	1.25~2.0	16~14	2.4~3.4	3,200	1,000

Material and Finish

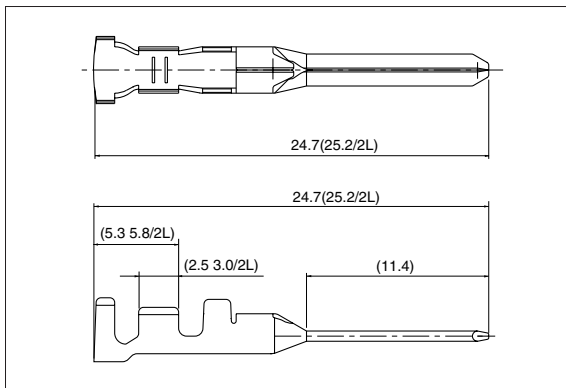
Copper alloy (superior conductivity), nickel-underplated, selective gold-plated tin-plated (reflow treatment)

RoHS compliance

Note: 1. Finish (*): GF...Nickel-undercoated, 0.38 μ m selective gold-plated
 GL...Nickel-undercoated, 0.76 μ m selective gold-plated
 T.....Tin-plated

2. *Marked products are not CSA/TÜV approved.

Tab contact



Model No.		Applicable wire			Insulation O.D. (mm)	Q'ty	
Strip contact	Loose piece	Nominal	mm ²	AWG#		reel	Box(Loose piece)
Under planning	Under planning	S	0.08~0.20	28~24	0.8~1.4	—	—
SF3M-01 (*) -M2.0N	BF3M-01 (*) -M2.0N	M	0.20~0.50	24~20	1.2~2.6	3,500	1,000
SF3M-41 (*) -M2.0N	LF3M-41 (*) -M2.0N	L	0.50~1.25	20~16	1.8~2.8	3,300	1,000
SF3M-71 () -M2.0N	*BF3M-71 (*) -M2.0N	2L	1.25~2.0	16~14	2.4~3.4	3,200	1,000

Material and Finish

Copper alloy (superior conductivity), nickel-underplated, selective gold-plated tin-plated (reflow treatment)

RoHS compliance

Note: 1. Finish (*): GF...Nickel-undercoated, 0.38 μ m selective gold-plated
 GL...Nickel-undercoated, 0.76 μ m selective gold-plated
 T.....Tin-plated

2. *Marked products are not CSA/TÜV approved.

Crimping machine, Applicator

Strip contact Model No.	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies	Hand crimp tools
SF3F-002 (*) -P2.0	AP-K2N	MKS-L	MK/SF3F-002-20	APLMK SF3F/M002-20	YRK-8821
SF3F-01 (*) -P2.0			MK/SF3F/M-01-20	APLMK SF3F/M01-20	YRK-8811
SF3M-01 (*) -M2.0N					
SF3F-41 (*) -P2.0			MK/SF3F/M-41-20	APLMK SF3F/M41-20	YRK-8801
SF3M-41 (*) -M2.0N					
SF3F-71 (*) -P2.0			MK/SF3F/M-71-20	APLMK SF3F/M71-20	YRK-1071
SF3M-71 (*) -M2.0N					

Note: Finish (*): GF...Nickel-undercoated, 0.38 μ m selective gold-plated
 GL...Nickel-undercoated, 0.76 μ m selective gold-plated
 T.....Tin-plated

Loose piece	Hand crimp tools
BF3F-002 (*) -P2.0	YRF-882
BF3F-01 (*) -P2.0	YRF-881
BF3M-01 (*) -M2.0N	
LF3F-41 (*) -P2.0	YRF-880
LF3M-41 (*) -M2.0N	
BF3F-71 (*) -P2.0	YRF-1070
BF3M-71 (*) -M2.0N	YRF-1071

Note: Finish (*): GF...Nickel-undercoated, 0.38 μ m selective gold-plated
 GL...Nickel-undercoated, 0.76 μ m selective gold-plated
 T.....Tin-plated

- Extraction tool for J300 series: EJ-JFAJ3
- Refer to page 15, 16 for details of YRK series hand crimping tools that uses a strip contact.

Recognition mark

• Plating of the contact

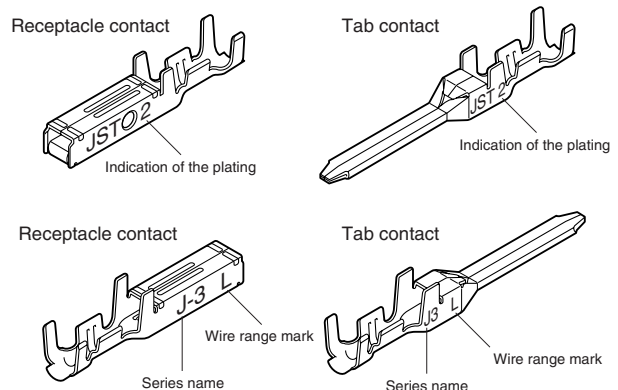
Each contact has a marking on its side so that the type or thickness of the plating is recognized.

- ex. 2 ... gold-plated 0.38 μ m thickness
 3 ... gold-plated 0.76 μ m thickness
 5 ... tin-plated

• Common marking on the contact and its application tools

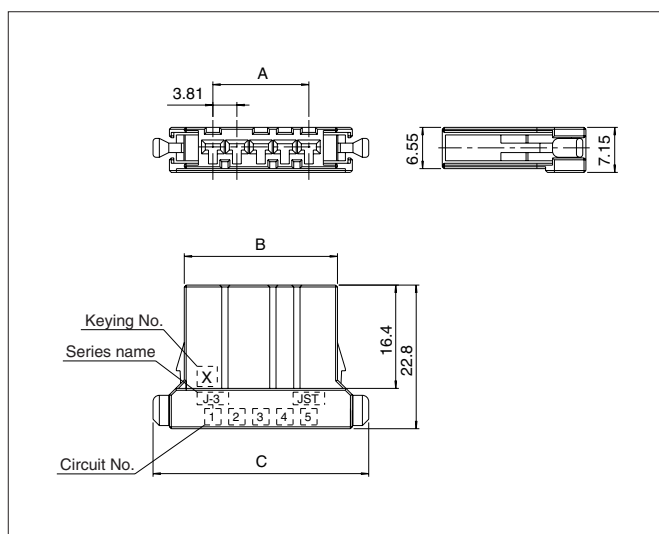
In order to avoid incorrect combination of the hand crimp tools or extraction tools and the contacts, the series name (for example J-3) and wire range mark (S, M, L, 2L) are shown on both the tools and the contacts.

For example J-3 S.....AWG #28 ~ #24
 M.....AWG #24 ~ #20
 L.....AWG #20 ~ #16
 2L....AWG #16 ~ #14



J300 SERIES/J310S

Receptacle housing



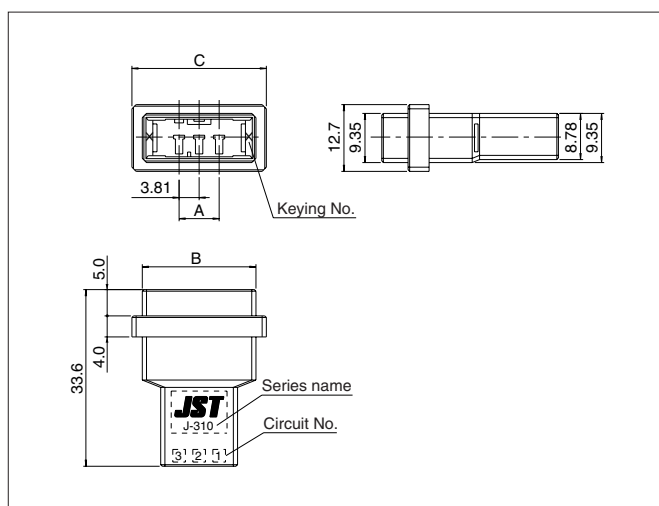
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
3	X	F31FSS-03V-KX	7.62	16.70	26.62	200
	Y	F31FSS-03V-KY	7.62	16.70	26.62	200
4	X	F31FSS-04V-KX	11.43	20.51	30.43	200
	Y	F31FSS-04V-KY	11.43	20.51	30.43	200
5	X	F31FSS-05V-KX	15.24	24.32	34.24	200
	Y	F31FSS-05V-KY	15.24	24.32	34.24	200
6	X	F31FSS-06V-KX	19.05	28.13	38.05	200
	Y	F31FSS-06V-KY	19.05	28.13	38.05	200
8	X	F31FSS-08V-KX	26.67	35.75	45.67	100
	Y	F31FSS-08V-KY	26.67	35.75	45.67	100
10	X	F31FSS-10V-KX	34.29	43.37	53.29	100
	Y	F31FSS-10V-KY	34.29	43.37	53.29	100

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing (Free hanging type)



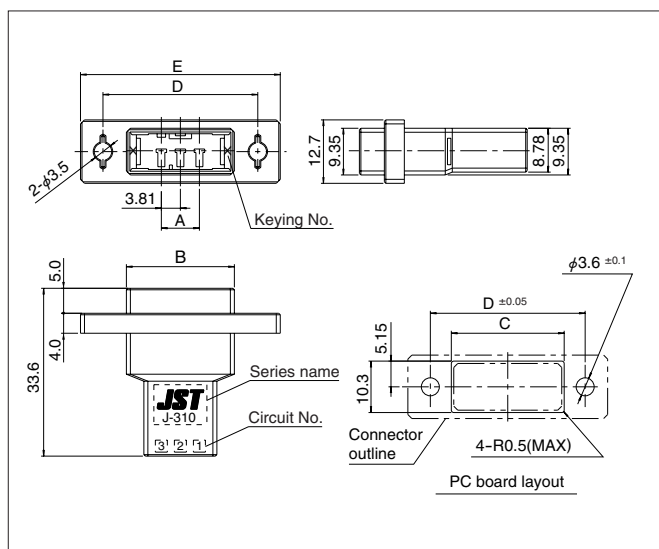
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
3	X	F31MSF-03V-KX	7.62	21.62	25.57	200
	Y	F31MSF-03V-KY	7.62	21.62	25.57	200
5	X	F31MSF-05V-KX	15.24	29.24	33.19	200
	Y	F31MSF-05V-KY	15.24	29.24	33.19	200
8	X	F31MSF-08V-KX	26.67	40.67	44.62	100
	Y	F31MSF-08V-KY	26.67	40.67	44.62	100
10	X	F31MSF-10V-KX	34.29	48.29	52.24	100
	Y	F31MSF-10V-KY	34.29	48.29	52.24	100

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing (Panel mounting type)



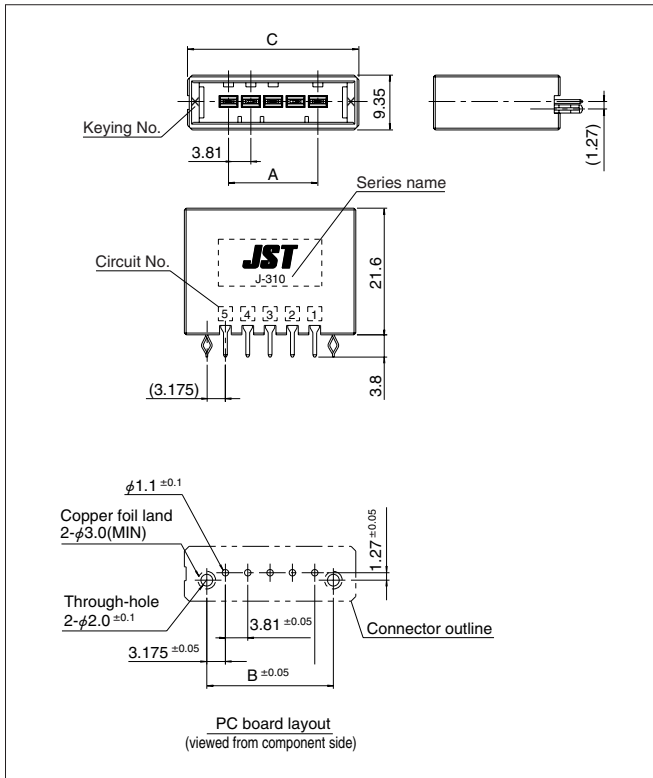
Circuits	Keying	Model No.	Dimensions (mm)					Q'ty / bag
			A	B	C	D	E	
3	X	F31MSP-03V-KX	7.62	21.62	22.60	31.00	40.00	200
	Y	F31MSP-03V-KY	7.62	21.62	22.60	31.00	40.00	200
5	X	F31MSP-05V-KX	15.24	29.24	30.20	38.00	47.00	200
	Y	F31MSP-05V-KY	15.24	29.24	30.20	38.00	47.00	200
8	X	F31MSP-08V-KX	26.67	40.67	41.60	50.00	59.00	100
	Y	F31MSP-08V-KY	26.67	40.67	41.60	50.00	59.00	100
10	X	F31MSP-10V-KX	34.29	48.29	49.20	58.00	67.00	100
	Y	F31MSP-10V-KY	34.29	48.29	49.20	58.00	67.00	100

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Header (Top entry type)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
3	X	B03B-F31SK-GGXR	7.62	13.97	21.62	220
	Y	B03B-F31SK-GGYR	7.62	13.97	21.62	220
4	X	B04B-F31SK-GGXR	11.43	17.78	25.43	180
	Y	B04B-F31SK-GGYR	11.43	17.78	25.43	180
5	X	B05B-F31SK-GGXR	15.24	21.59	29.24	160
	Y	B05B-F31SK-GGYR	15.24	21.59	29.24	160
6	X	B06B-F31SK-GGXR	19.05	25.40	33.05	140
	Y	B06B-F31SK-GGYR	19.05	25.40	33.05	140
8	X	B08B-F31SK-GGXR	26.67	33.02	40.67	120
	Y	B08B-F31SK-GGYR	26.67	33.02	40.67	120
10	X	B10B-F31SK-GGXR	34.29	40.64	48.29	100
	Y	B10B-F31SK-GGYR	34.29	40.64	48.29	100

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

Housing: Glass-filled PBT, UL94V-0, black

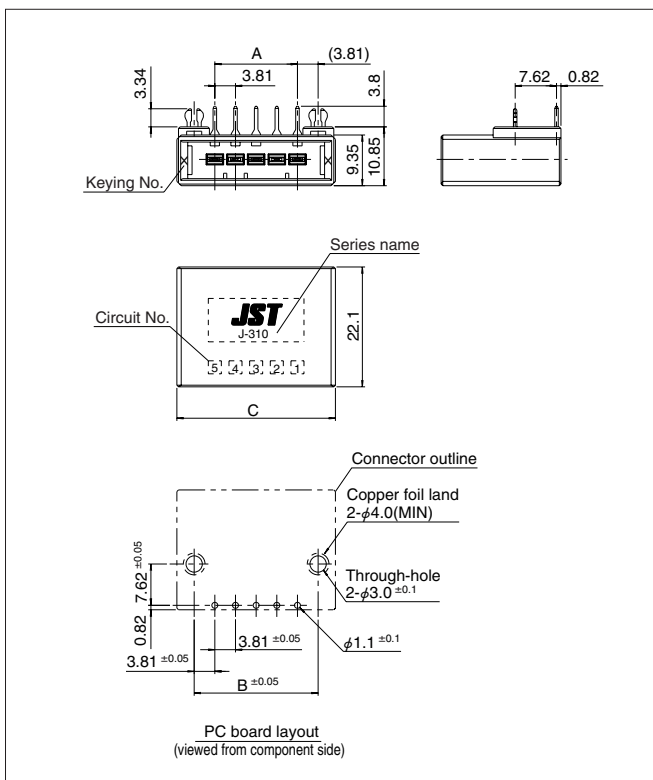
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance This product displays (LF)(AU) on a label.

Note: 1. Contact JST for the headers supplied in magazine stick.

2. Contact JST for 0.76 μ m gold-plated product and tin-plated product.

Header (Side entry type)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
3	X	S03B-F31SK-GGXR	7.62	15.24	21.62	165
	Y	S03B-F31SK-GGYR	7.62	15.24	21.62	165
4	X	S04B-F31SK-GGXR	11.43	19.05	25.43	135
	Y	S04B-F31SK-GGYR	11.43	19.05	25.43	135
5	X	S05B-F31SK-GGXR	15.24	22.86	29.24	120
	Y	S05B-F31SK-GGYR	15.24	22.86	29.24	120
6	X	S06B-F31SK-GGXR	19.05	26.67	33.05	105
	Y	S06B-F31SK-GGYR	19.05	26.67	33.05	105
8	X	S08B-F31SK-GGXR	26.67	34.29	40.67	90
	Y	S08B-F31SK-GGYR	26.67	34.29	40.67	90
10	X	S10B-F31SK-GGXR	34.29	41.91	48.29	75
	Y	S10B-F31SK-GGYR	34.29	41.91	48.29	75

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

Housing: Glass-filled PBT, UL94V-0, black

Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

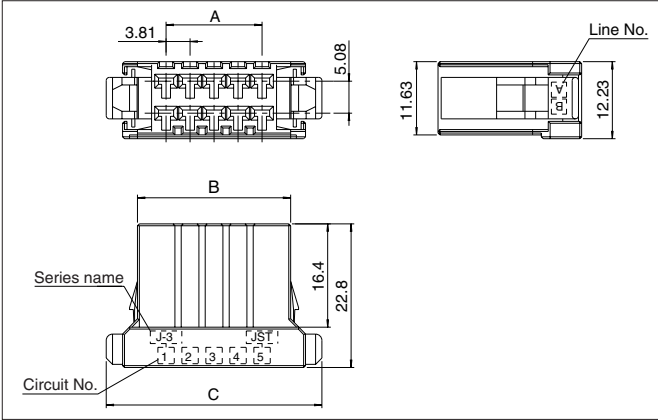
RoHS compliance This product displays (LF)(AU) on a label.

Note: 1. Contact JST for the headers supplied in magazine stick.

2. Contact JST for 0.76 μ m gold-plated product and tin-plated product.

J300 SERIES/J310D

Receptacle housing



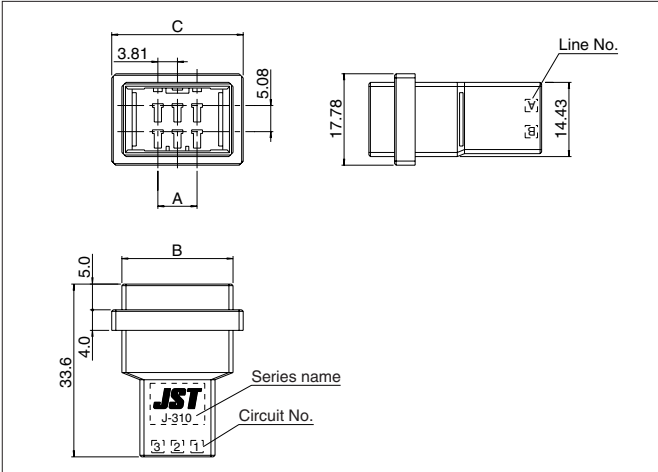
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
6	—	F31FDS-06V-K	7.62	16.70	26.62	200
8	—	F31FDS-08V-K	11.43	20.51	30.43	100
10	—	F31FDS-10V-K	15.24	24.32	34.24	100
12	—	F31FDS-12V-K	19.05	28.13	38.05	100
16	—	F31FDS-16V-K	26.67	35.75	45.67	100
20	—	F31FDS-20V-K	34.29	43.37	53.29	100

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing (Free hanging type)



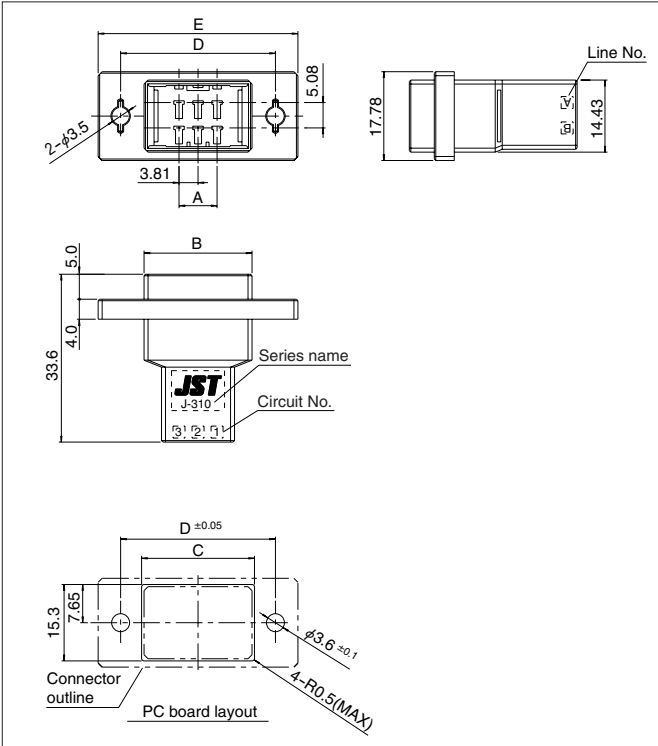
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
6	—	F31MDF-06V-K	7.62	21.62	25.57	200
8	—	F31MDF-08V-K	11.43	25.43	29.38	100
10	—	F31MDF-10V-K	15.24	29.24	33.19	100
12	—	F31MDF-12V-K	19.05	33.05	37.00	100
16	—	F31MDF-16V-K	26.67	40.67	44.62	100
20	—	F31MDF-20V-K	34.29	48.29	52.24	100

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing (Panel mounting type)



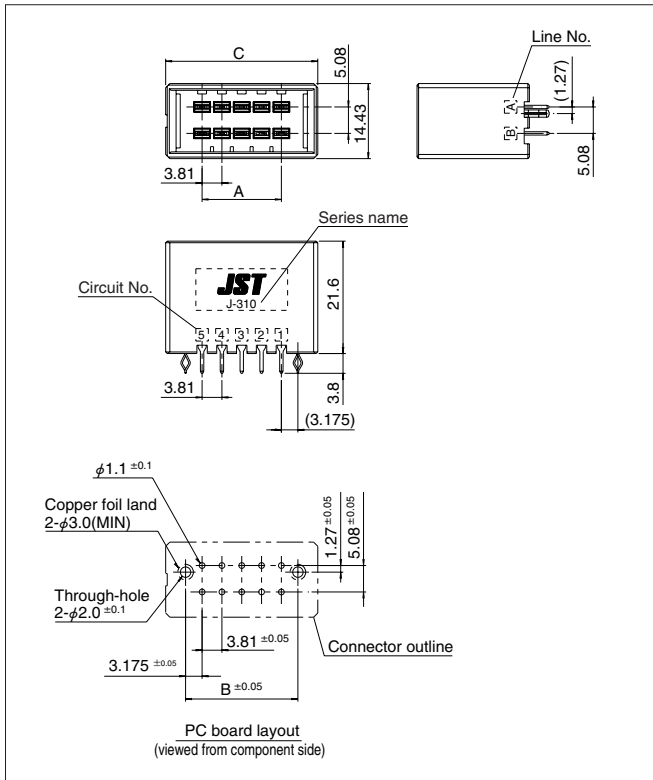
Circuits	Keying	Model No.	Dimensions (mm)					Q'ty / bag
			A	B	C	D	E	
6	—	F31MDP-06V-K	7.62	21.62	22.60	31.00	40.00	200
8	—	F31MDP-08V-K	11.43	25.43	26.40	34.50	43.50	100
10	—	F31MDP-10V-K	15.24	29.24	30.20	38.00	47.00	100
12	—	F31MDP-12V-K	19.05	33.05	34.00	42.00	51.00	100
16	—	F31MDP-16V-K	26.67	40.67	41.60	50.00	59.00	100
20	—	F31MDP-20V-K	34.29	48.29	49.20	58.00	67.00	100

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Header (Top entry type)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
6	—	B06B-F31DK-GGR	7.62	13.97	21.62	132
8	—	B08B-F31DK-GGR	11.43	17.78	25.43	108
10	—	B10B-F31DK-GGR	15.24	21.59	29.24	96
12	—	B12B-F31DK-GGR	19.05	25.40	33.05	84
16	—	B16B-F31DK-GGR	26.67	33.02	40.67	72
20	—	B20B-F31DK-GGR	34.29	40.64	48.29	60

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

Housing: Glass-filled PBT, UL94V-0, black

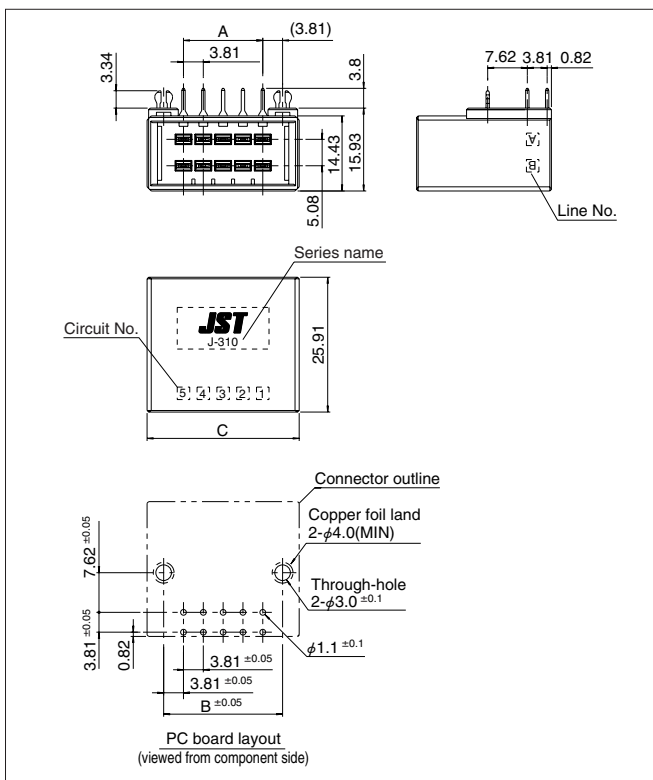
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance This product displays (LF) (AU) on a label.

Note: 1. Contact JST for the headers supplied in magazine stick.

2. Contact JST for 0.76 μ m gold-plated product and tin-plated product.

Header (Side entry type)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
6	—	S06B-F31DK-GGR	7.62	15.24	21.62	88
8	—	S08B-F31DK-GGR	11.43	19.05	25.43	72
10	—	S10B-F31DK-GGR	15.24	22.86	29.24	64
12	—	S12B-F31DK-GGR	19.05	26.67	33.05	56
16	—	S16B-F31DK-GGR	26.67	34.29	40.67	48
20	—	S20B-F31DK-GGR	34.29	41.91	48.29	40

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

Housing: Glass-filled PBT, UL94V-0, black

Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

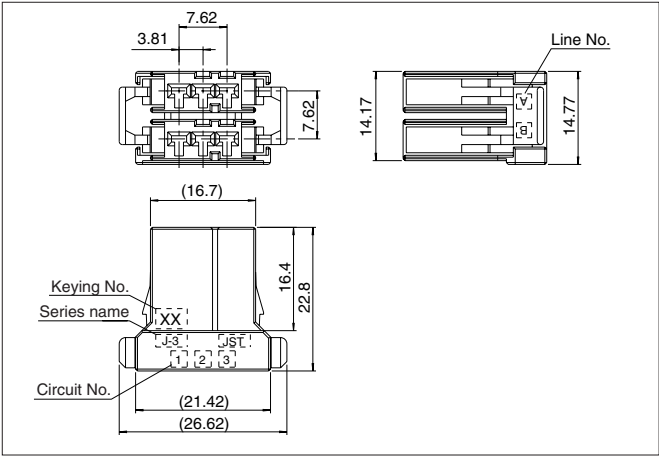
RoHS compliance This product displays (LF) (AU) on a label.

Note: 1. Contact JST for the headers supplied in magazine stick.

2. Contact JST for 0.76 μ m gold-plated product and tin-plated product.

J300 SERIES/J310M

Receptacle housing

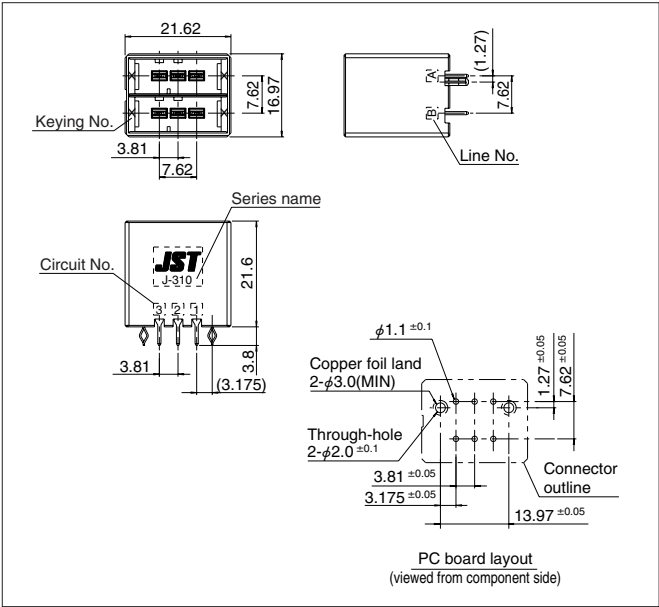


Circuits	Keying	Model No.	Q'ty / box
6	XX	F31FMS-06V-KXX	100
	YY	F31FMS-06V-KYY	100
	XY	F31FMS-06V-KXY	100

Material			
Glass-filled PBT, UL94V-0, black			

RoHS compliance

Header (Top entry type)

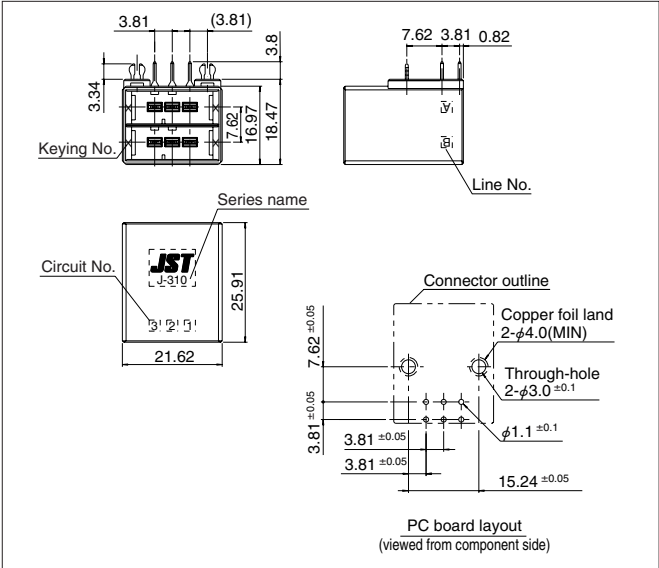


Circuits	Keying	Model No.	Q'ty / box
6	XX	B06B-F31MK-GGXXR	132
	YY	B06B-F31MK-GGYR	132
	XY	B06B-F31MK-GGXYR	132

Material and Finish			
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated			
Housing: Glass-filled PBT, UL94V-0, black			
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated			

RoHS compliance This product displays (LF)(AU) on a label.
Note: 1. Contact JST for the headers supplied in magazine stick.
2. Contact JST for 0.76 μ m gold-plated product and tin-plated product.

Header (Side entry type)



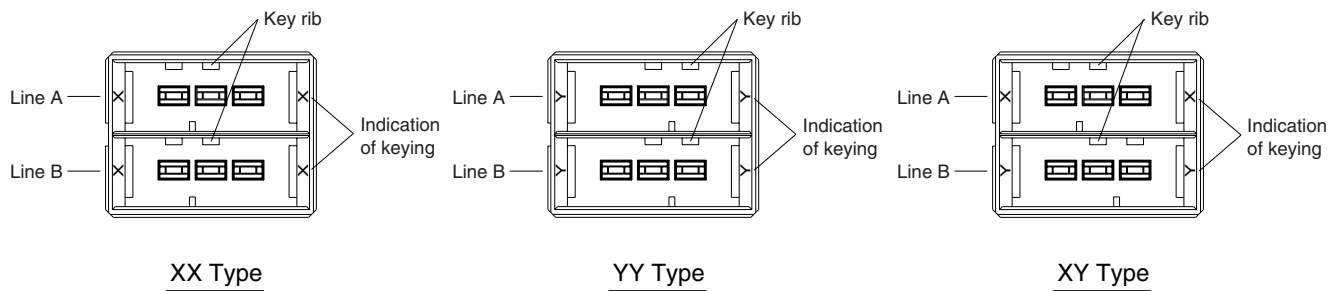
Circuits	Keying	Model No.	Q'ty / box
6	XX	S06B-F31MK-GGXXR	88
	YY	S06B-F31MK-GGYR	88
	XY	S06B-F31MK-GGXYR	88

Material and Finish			
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated			
Housing: Glass-filled PBT, UL94V-0, black			
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated			

RoHS compliance This product displays (LF)(AU) on a label.
Note: 1. Contact JST for the headers supplied in magazine stick.
2. Contact JST for 0.76 μ m gold-plated product and tin-plated product.

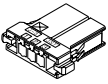
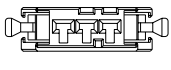


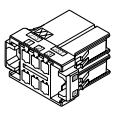
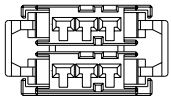
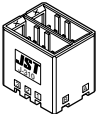
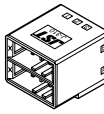
Keying

J310M series have mis-insertion preventive keying.
Available in 3 types – XX type, YY type and XY type.
(Headers viewed from the mating side are shown below.)



List of combinations

With the combination of the J310M headers and the J310M/J310S (3 circuits) receptacle housings, the following modular combinations are possible.

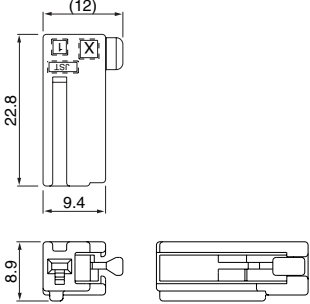
Receptacle housing		Header			
		Top entry type		Side entry type	
Single-row 3 circuits (J310S) 	X Type F31FSS-03V-KX		Single-row 3 circuits (J310S) 	Single-row 3 circuits (J310S) 	X Type S03B-F31SK-GGX■
	Y Type F31FSS-03V-KY		Y Type B03B-F31SK-GGY■	Y Type S03B-F31SK-GGY■	Y Type S03B-F31SK-GGY■
Double-row 6 circuits (J310M) 	XX Type F31FMS-06V-KXX		Double-row 6 circuits (J310M) 	Double-row 6 circuits (J310M) 	XX Type S06B-F31MK-GGX■
	YY Type F31FMS-06V-KYY		YY Type B06B-F31MK-GGY■	YY Type S06B-F31MK-GGY■	YY Type S06B-F31MK-GGY■
	XY Type F31FMS-06V-KXY		XY Type B06B-F31MK-GGXY■	XY Type S06B-F31MK-GGXY■	XY Type S06B-F31MK-GGXY■

Note: Packaging method is indicated in ■. (R=Tray)

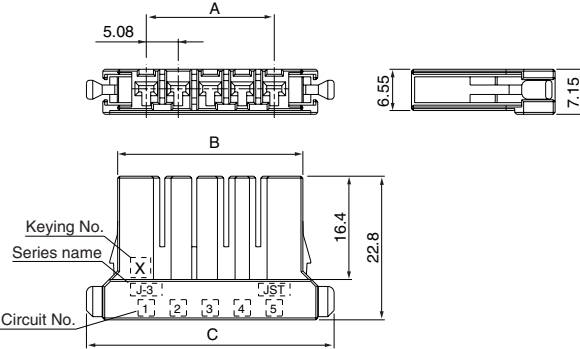
J300 SERIES/J320S

Receptacle housing

• Single circuit



• 2 to 6 circuits



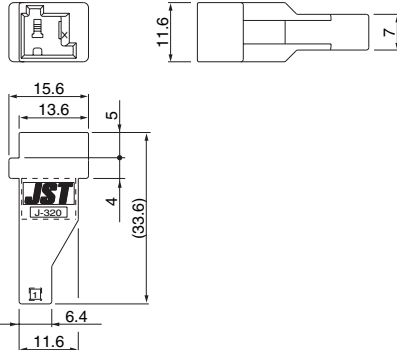
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
1	X	F32FSS-01V-KX	—	—	—	200
	Y	F32FSS-01V-KY	—	—	—	200
2	X	F32FSS-02V-KX	5.08	14.16	24.08	200
	Y	F32FSS-02V-KY	5.08	14.16	24.08	200
3	X	F32FSS-03V-KX	10.16	19.24	29.16	200
	Y	F32FSS-03V-KY	10.16	19.24	29.16	200
4	X	F32FSS-04V-KX	15.24	24.32	34.24	200
	Y	F32FSS-04V-KY	15.24	24.32	34.24	200
5	X	F32FSS-05V-KX	20.32	29.40	39.32	200
	Y	F32FSS-05V-KY	20.32	29.40	39.32	200
6	X	F32FSS-06V-KX	25.40	34.48	44.40	100
	Y	F32FSS-06V-KY	25.40	34.48	44.40	100
Material						

Glass-filled PBT, UL94V-0, black

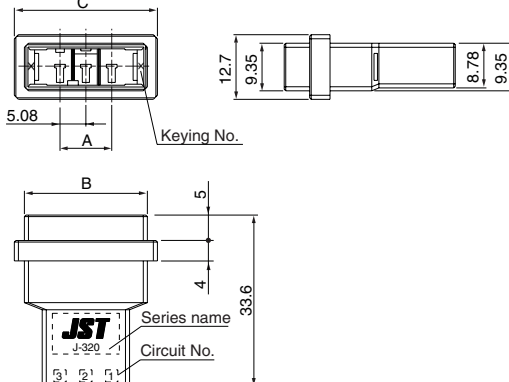
RoHS compliance

Tab housing (Free hanging type)

• Single circuit



• 2 to 4 circuits



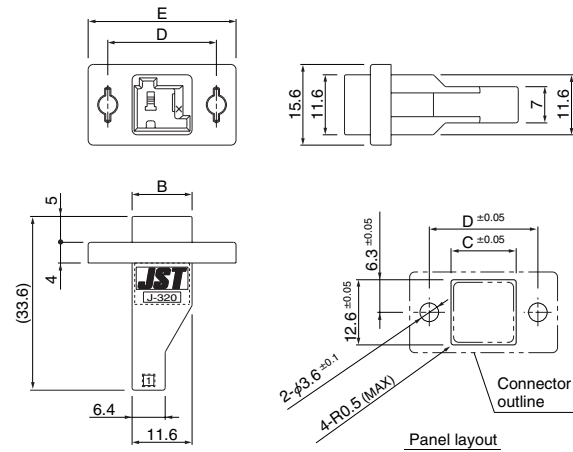
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
1	X	F32MSF-01V-KX	—	—	—	150
	Y	F32MSF-01V-KY	—	—	—	150
2	X	F32MSF-02V-KX	5.08	19.08	23.03	200
	Y	F32MSF-02V-KY	5.08	19.08	23.03	200
3	X	F32MSF-03V-KX	10.16	24.16	28.11	200
	Y	F32MSF-03V-KY	10.16	24.16	28.11	200
4	X	F32MSF-04V-KX	15.24	29.24	33.19	200
	Y	F32MSF-04V-KY	15.24	29.24	33.19	200
Material						

Glass-filled PBT, UL94V-0, black

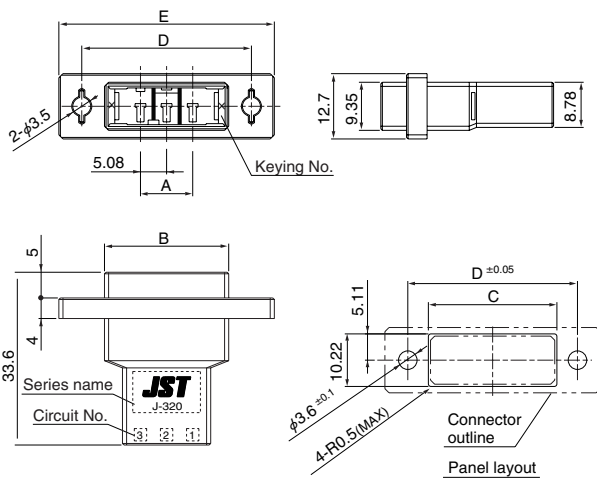
RoHS compliance

Tab housing (Panel mounting type)

• Single circuit



• 2 to 4 circuits



Circuits	Keying	Model No.	Dimensions (mm)					Q'ty / bag
			A	B	C	D	E	
1	X	F32MSP-01V-KX	—	11.60	12.60	21.00	28.60	150
	Y	F32MSP-01V-KY	—	11.60	12.60	21.00	28.60	150
2	X	F32MSP-02V-KX	5.08	19.08	20.00	28.00	36.83	200
	Y	F32MSP-02V-KY	5.08	19.08	20.00	28.00	36.83	200
3	X	F32MSP-03V-KX	10.16	24.16	25.00	33.00	41.91	200
	Y	F32MSP-03V-KY	10.16	24.16	25.00	33.00	41.91	200
4	X	F32MSP-04V-KX	15.24	29.24	30.00	38.00	46.99	200
	Y	F32MSP-04V-KY	15.24	29.24	30.00	38.00	46.99	200

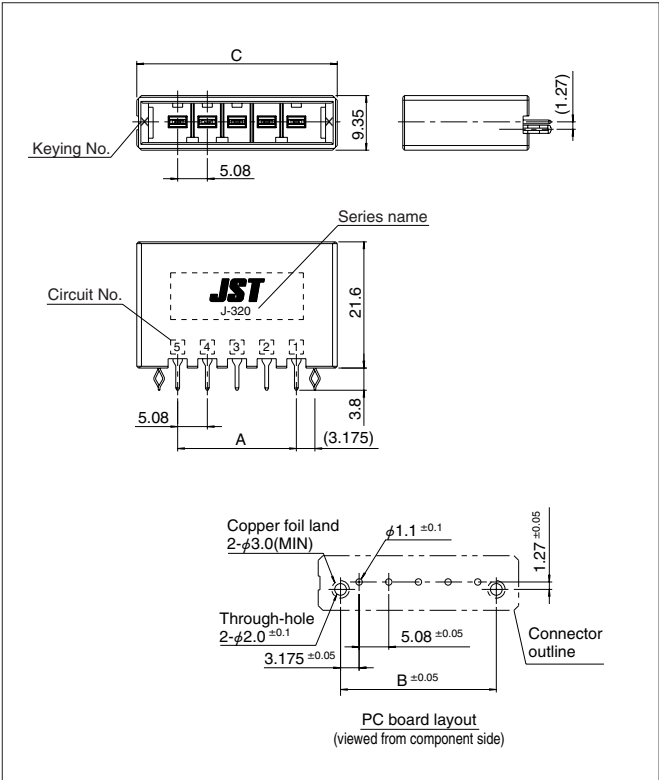
Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

J300 SERIES/J320S

Header (Top entry type)



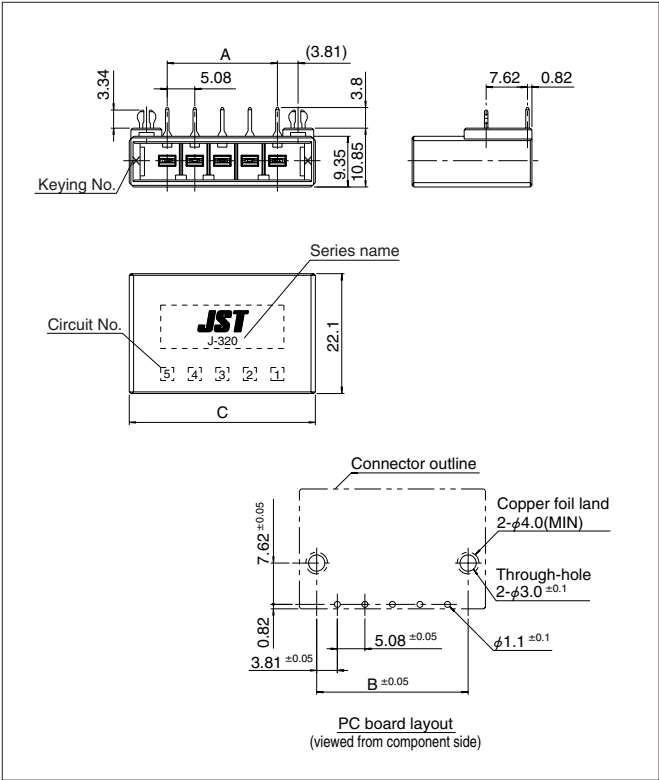
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
2	X	B02B-F32SK-GGX _R	5.08	11.43	19.08	240
	Y	B02B-F32SK-GGY _R	5.08	11.43	19.08	240
3	X	B03B-F32SK-GGX _R	10.16	16.51	24.16	200
	Y	B03B-F32SK-GGY _R	10.16	16.51	24.16	200
4	X	B04B-F32SK-GGX _R	15.24	21.59	29.24	160
	Y	B04B-F32SK-GGY _R	15.24	21.59	29.24	160
5	X	B05B-F32SK-GGX _R	20.32	26.67	34.32	140
	Y	B05B-F32SK-GGY _R	20.32	26.67	34.32	140
6	X	B06B-F32SK-GGX _R	25.40	31.75	39.40	120
	Y	B06B-F32SK-GGY _R	25.40	31.75	39.40	120

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance This product displays (LF)(AU) on a label.
Note: 1. Contact JST for the headers supplied in magazine stick.
2. Contact JST for 0.76 μ m gold-plated product and tin-plated product.

Header (Side entry type)



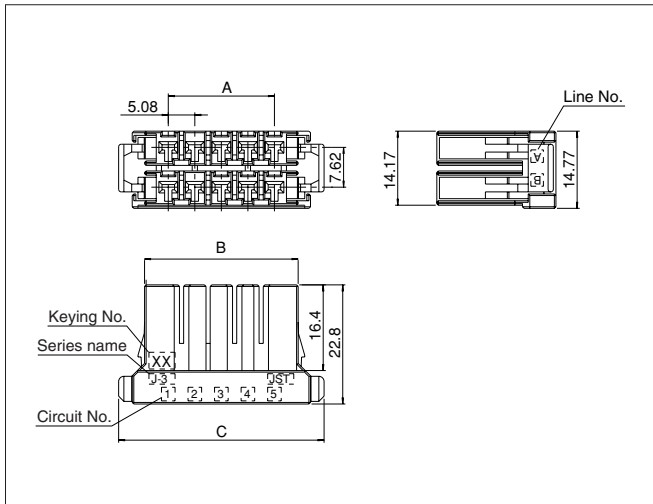
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
2	X	S02B-F32SK-GGX _R	5.08	12.70	19.08	180
	Y	S02B-F32SK-GGY _R	5.08	12.70	19.08	180
3	X	S03B-F32SK-GGX _R	10.16	17.78	24.16	150
	Y	S03B-F32SK-GGY _R	10.16	17.78	24.16	150
4	X	S04B-F32SK-GGX _R	15.24	22.86	29.24	120
	Y	S04B-F32SK-GGY _R	15.24	22.86	29.24	120
5	X	S05B-F32SK-GGX _R	20.32	27.94	34.32	105
	Y	S05B-F32SK-GGY _R	20.32	27.94	34.32	105
6	X	S06B-F32SK-GGX _R	25.40	33.02	39.40	90
	Y	S06B-F32SK-GGY _R	25.40	33.02	39.40	90

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance This product displays (LF)(AU) on a label.
Note: 1. Contact JST for the headers supplied in magazine stick.
2. Contact JST for 0.76 μ m gold-plated product and tin-plated product.

Receptacle housing



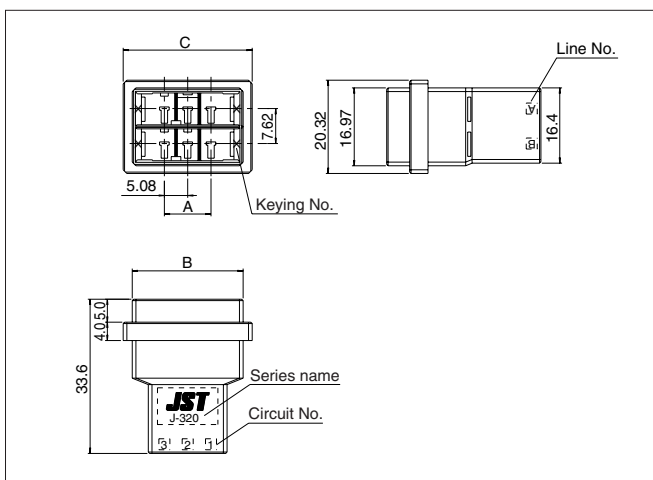
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
6	XX	F32FMS-06V-KXX	10.16	19.24	29.16	100
	YY	F32FMS-06V-KYY	10.16	19.24	29.16	100
	XY	F32FMS-06V-KXY	10.16	19.24	29.16	100
10	XX	F32FMS-10V-KXX	20.32	29.40	39.32	100
	YY	F32FMS-10V-KYY	20.32	29.40	39.32	100
	XY	F32FMS-10V-KXY	20.32	29.40	39.32	100
12	XX	F32FMS-12V-KXX	25.40	34.48	44.40	100
	YY	F32FMS-12V-KYY	25.40	34.48	44.40	100
	XY	F32FMS-12V-KXY	25.40	34.48	44.40	100
20	XX	F32FMS-20V-KXX	45.72	54.80	64.72	96(box)
	YY	Under planning	—	—	—	—
	XY	Under planning	—	—	—	—

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing (Free hanging type)



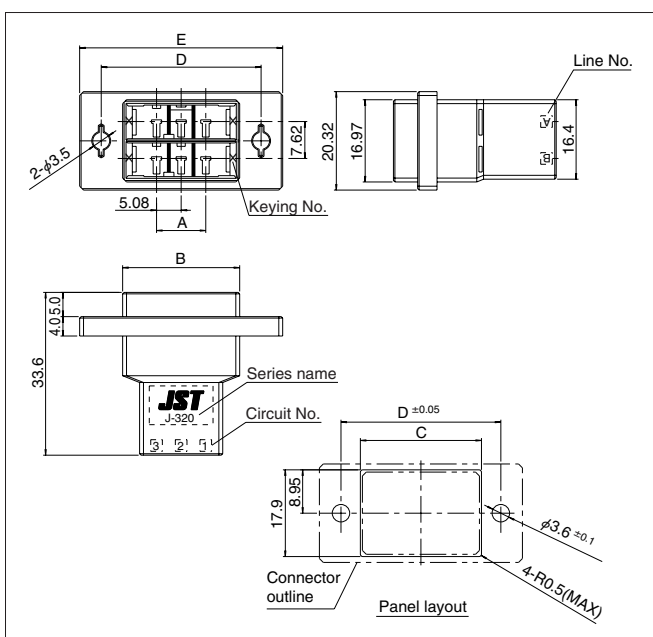
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
6	XX	F32MDF-06V-KXX	10.16	24.16	28.11	100
	YY	F32MDF-06V-KYY	10.16	24.16	28.11	100
	XY	F32MDF-06V-KXY	10.16	24.16	28.11	100
12	XX	F32MDF-12V-KXX	25.40	39.40	43.35	100
	YY	F32MDF-12V-KYY	25.40	39.40	43.35	100
	XY	F32MDF-12V-KXY	25.40	39.40	43.35	100

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing (Panel mounting type)



Circuits	Keying	Model No.	Dimensions (mm)					Q'ty / bag
			A	B	C	D	E	
6	XX	F32MDP-06V-KXX	10.16	24.16	25.00	33.00	41.91	100
	YY	F32MDP-06V-KYY	10.16	24.16	25.00	33.00	41.91	100
	XY	F32MDP-06V-KXY	10.16	24.16	25.00	33.00	41.91	100
12	XX	F32MDP-12V-KXX	25.40	39.40	41.00	49.00	57.91	100
	YY	F32MDP-12V-KYY	25.40	39.40	41.00	49.00	57.91	100
	XY	F32MDP-12V-KXY	25.40	39.40	41.00	49.00	57.91	100
20	XX	F32MDP-20V-KXX	45.72	59.72	61.00	70.00	78.23	40(box)
	YY	Under planning	—	—	—	—	—	—
	XY	Under planning	—	—	—	—	—	—

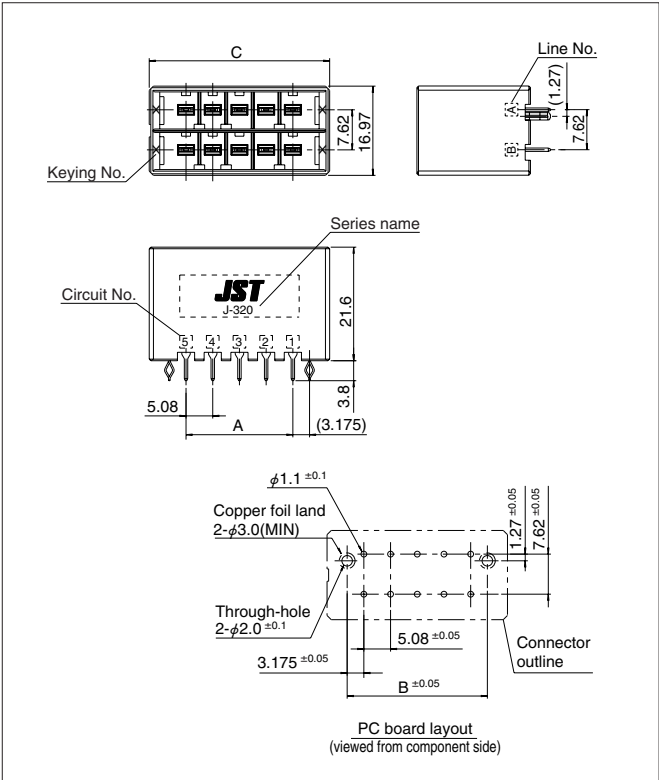
Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

J300 SERIES/J320M

Header (Top entry type)



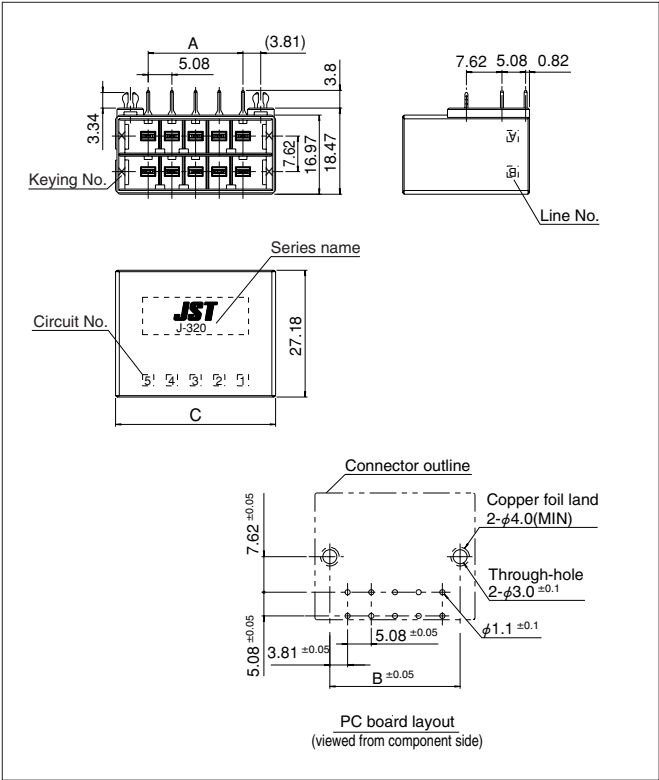
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
6	XX	B06B-F32MK-GGXXR	10.16	16.51	24.16	120
	YY	B06B-F32MK-GGYR	10.16	16.51	24.16	120
	XY	B06B-F32MK-GGXRYR	10.16	16.51	24.16	120
10	XX	B10B-F32MK-GGXXR	20.32	26.67	34.32	84
	YY	B10B-F32MK-GGYR	20.32	26.67	34.32	84
	XY	B10B-F32MK-GGXRYR	20.32	26.67	34.32	84
12	XX	B12B-F32MK-GGXXR	25.40	31.75	39.40	72
	YY	B12B-F32MK-GGYR	25.40	31.75	39.40	72
	XY	B12B-F32MK-GGXRYR	25.40	31.75	39.40	72

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance This product displays (LF)(AU) on a label.
Note: 1. Contact JST for the headers supplied in magazine stick.
2. Contact JST for 0.76 μ m gold-plated product and tin-plated product.

Header (Side entry type)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
6	XX	S06B-F32MK-GGXXR	10.16	17.78	24.16	80
	YY	S06B-F32MK-GGYR	10.16	17.78	24.16	80
	XY	S06B-F32MK-GGXRYR	10.16	17.78	24.16	80
8	XY	S08B-F32MK-GGXRYR	15.24	22.86	29.24	64
10	XX	S10B-F32MK-GGXXR	20.32	27.94	34.32	56
	YY	S10B-F32MK-GGYR	20.32	27.94	34.32	56
	XY	S10B-F32MK-GGXRYR	20.32	27.94	34.32	56
12	XX	S12B-F32MK-GGXXR	25.40	33.02	39.40	48
	YY	S12B-F32MK-GGYR	25.40	33.02	39.40	48
	XY	S12B-F32MK-GGXRYR	25.40	33.02	39.40	48

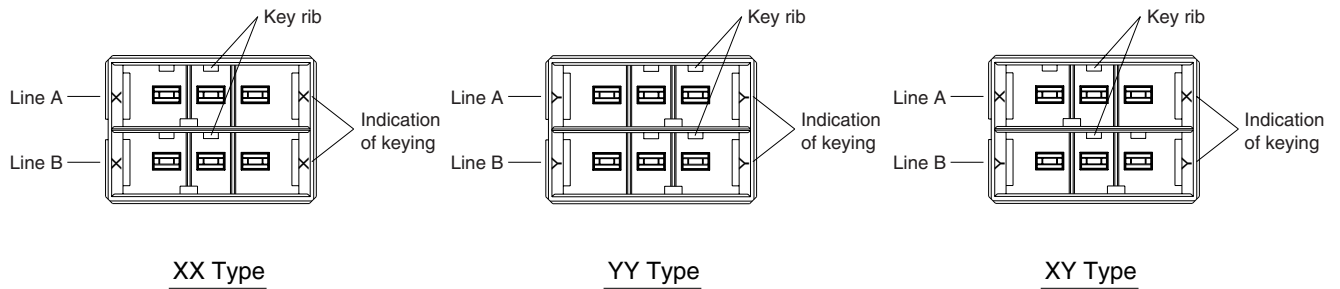
Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance This product displays (LF)(AU) on a label.
Note: 1. Contact JST for the headers supplied in magazine stick.
2. Contact JST for 0.76 μ m gold-plated product and tin-plated product.

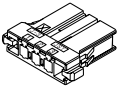


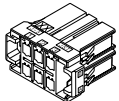
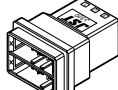

Keying

J320M series have mis-insertion preventive keying.
Available in 3 types – XX type, YY type and XY type.
(Headers viewed from the mating side are shown below.)



List of combinations

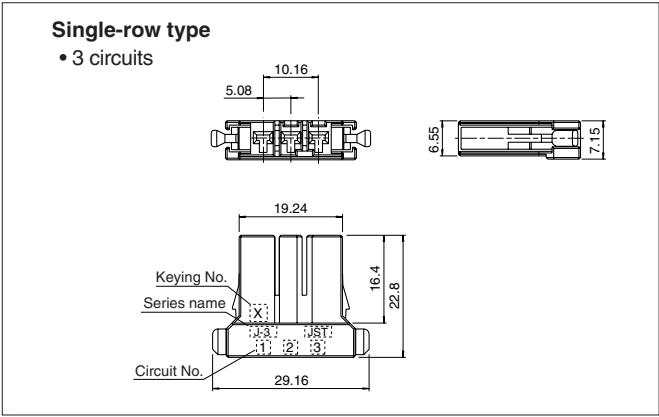
With the combination of the J320M headers and the J320M/J320S receptacle housings, the following modular combinations are possible.

Receptacle housing		Tab housing		Header	
Single-row 3, 5, 6 circuits (J320S) 	X type F32FSS-■V-KX	 Free hanging type Panel mounting type	X type Free hanging type F32MSF-■V-KX Panel mounting type F32MSP-■V-KX	Single-row 3, 5, 6 circuits (J320S)  Top entry type Side entry type	X type Top entry type B■B-F32SK-GGX■ Side entry type S■B-F32SK-GGX■
	Y type F32FSS-■V-KY				Y type Top entry type B■B-F32SK-GGY■ Side entry type S■B-F32SK-GGY■
Double-row 6, 10, 12, 20 circuits (J320M) 	XX type F32FMS-■V-KXX	 Free hanging type Panel mounting type	XX type Free hanging type F32MDF-■V-KXX Panel mounting type F32MDP-■V-KXX	Double-row 6, 10, 12 circuits (J320M)  Top entry type Side entry type	XX type Top entry type B■B-F32MK-GGXX■ Side entry type S■B-F32MK-GGXX■
	YY type F32FMS-■V-KYY				YY type Top entry type B■B-F32MK-GGY■ Side entry type S■B-F32MK-GGY■
	XY type F32FMS-■V-KXY				XY type Top entry type B■B-F32MK-GGXY■ Side entry type S■B-F32MK-GGXY■

Note: Number of circuits is indicated in ■■.
Packaging method is indicated in ■.

J300 SERIES/J320T

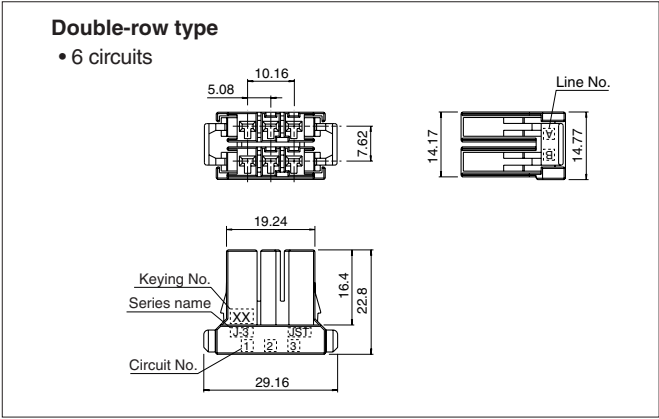
Receptacle housing



Circuits	Keying	Model No.	Q'ty / bag
3	X	F32FSS-03V-KX	200
	Y	F32FSS-03V-KY	200

Material			
Glass-filled PBT, UL94V-0, black			

RoHS compliance

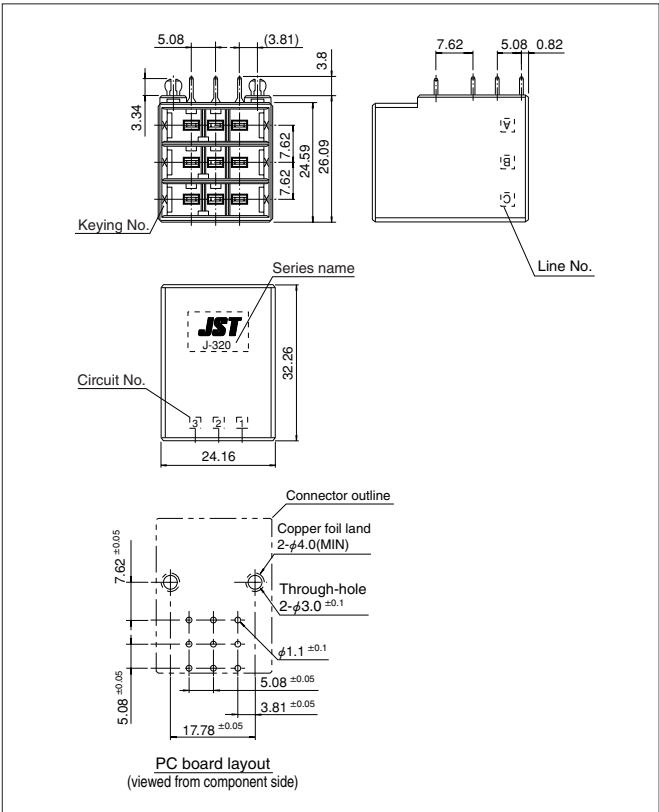


Circuits	Keying	Model No.	Q'ty / bag
6	XX	F32FMS-06V-KXX	100
	YY	F32FMS-06V-KYY	100
	XY	F32FMS-06V-KXY	100

Material			
Glass-filled PBT, UL94V-0, black			

RoHS compliance

Header (Side entry type)



Circuits	Keying	Model No.	Q'ty / box
9	XXX	S09B-F32TK-GGXAR	42
	XXY	S09B-F32TK-GGXBR	42
	XYX	S09B-F32TK-GGXCR	42
	YYX	S09B-F32TK-GGXDR	42

Material and Finish			
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated			
Housing: Glass-filled PBT, UL94V-0, black			
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated			

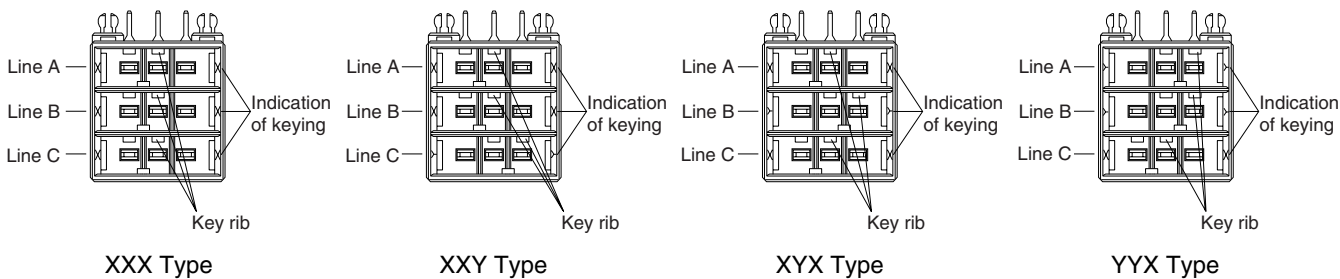
RoHS compliance This product displays (LF)(AU) on a label.

Note: 1. Contact JST for tin-plated product.

2. Not CSA/TÜV approved

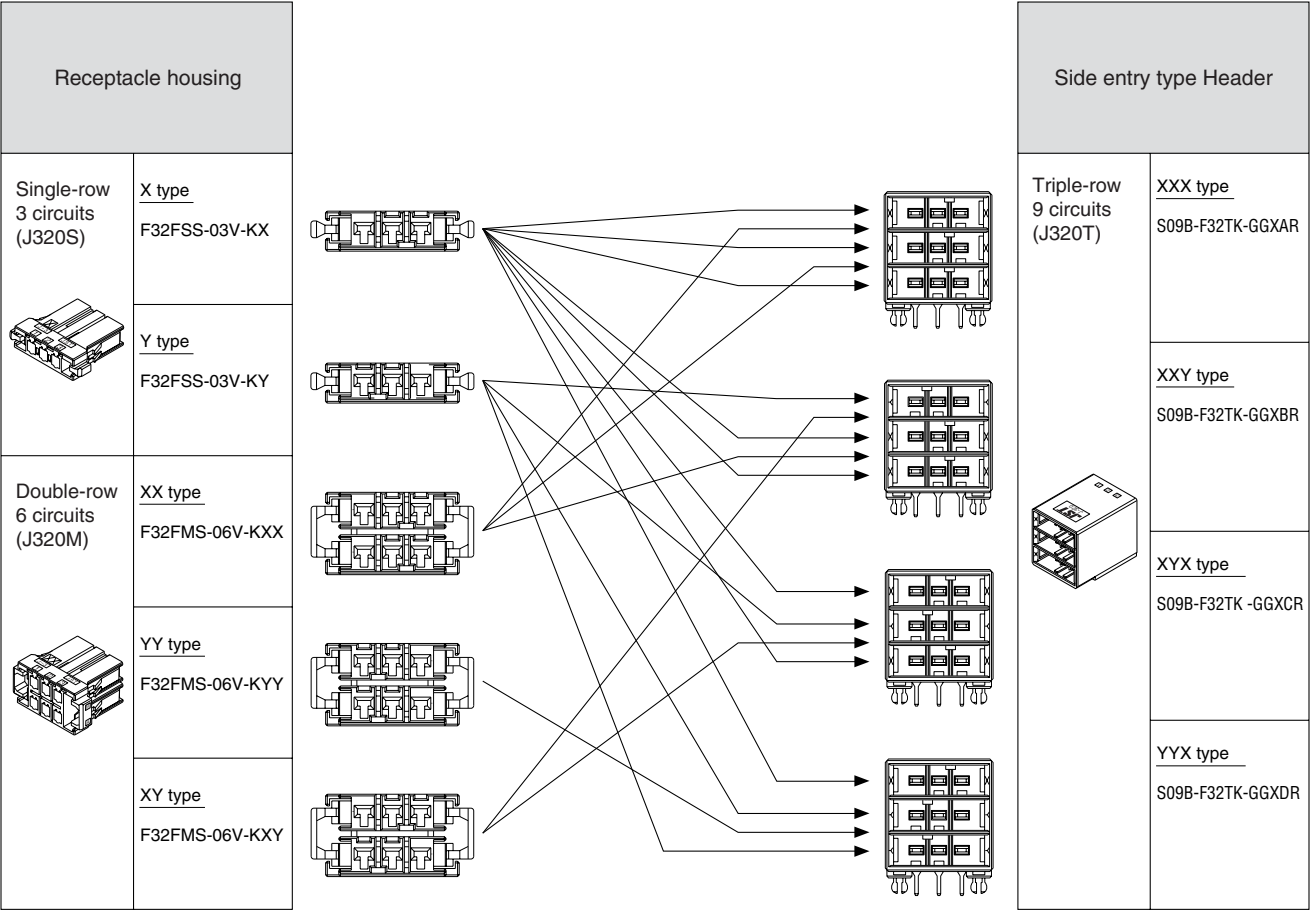
Keying

J320T series have mis-insertion preventive keying.
Available in 4 types – XXX type, XXY type, XYX type and YYX type.
(Headers viewed from the mating side are shown below.)



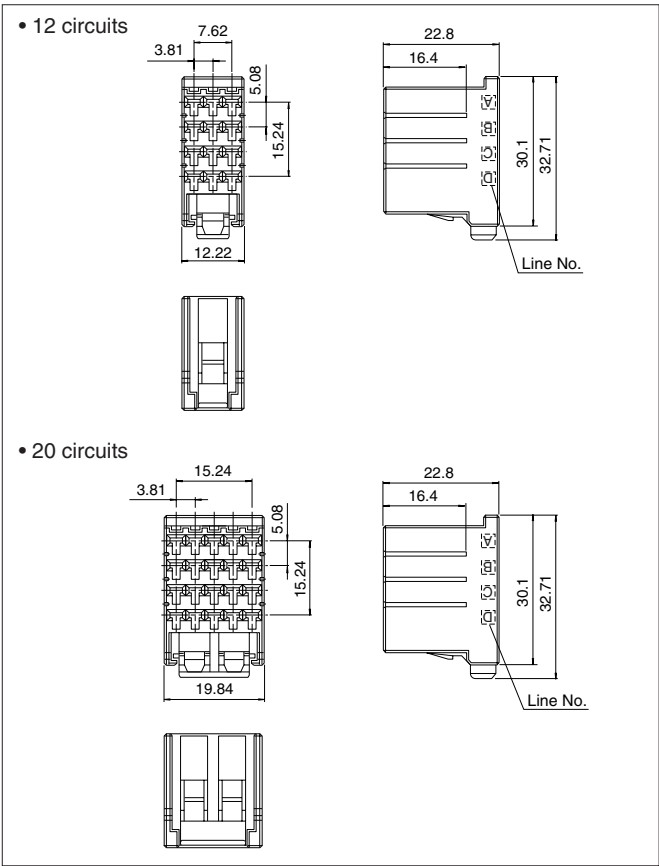
List of combinations

With the combination of the J320T headers and the J320S/J320M receptacle housings, the following modular combinations are possible.



J300 SERIES/J340F

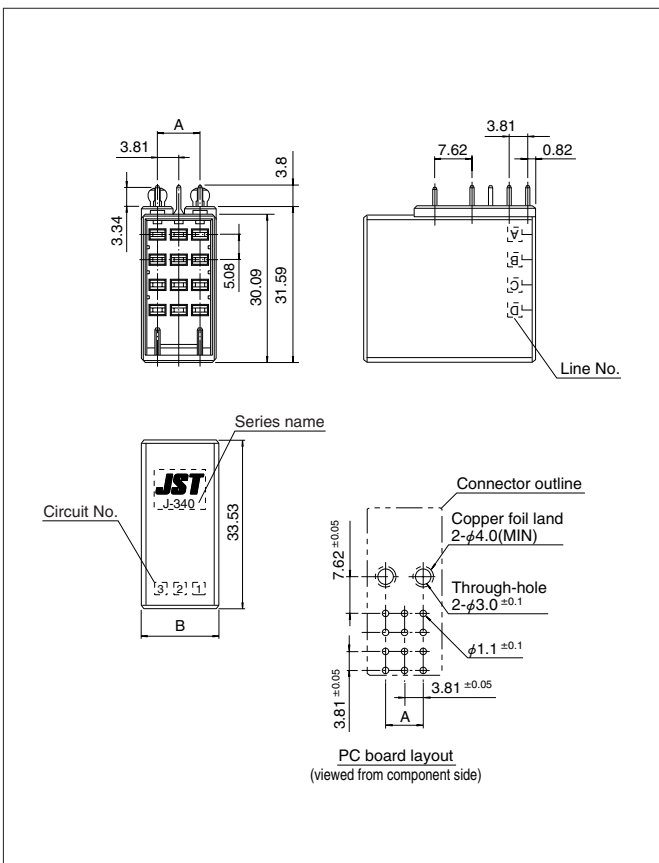
Receptacle housing



Circuits	Keying	Model No.	Q'ty / bag
12	—	F34FFC-12V-K	100
20	—	F34FFC-20V-K	100
Material			
Glass-filled PBT, UL94V-0, black			

RoHS compliance
Note: Not CSA/TÜV approved.

Header (Side entry type)

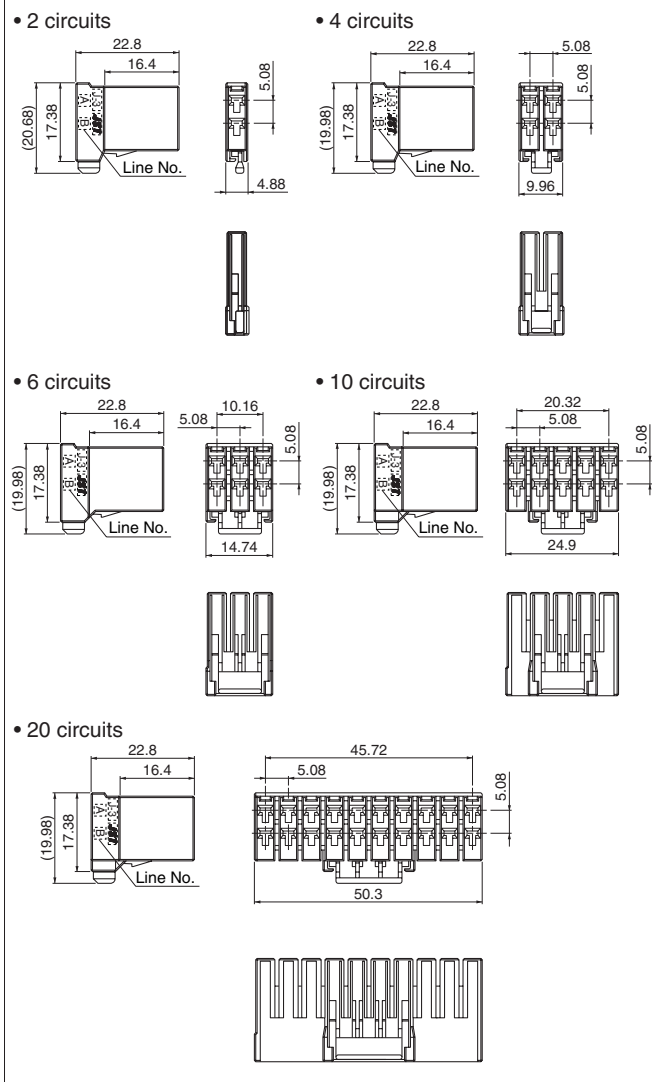


Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
12	—	SC12B-F34FK-GGR	7.62	15.02	63
20	—	SC20B-F34FK-GGR	15.24	22.64	42
Material and Finish					

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance This product displays (LF)(AU) on a label.
Note: 1. Contact JST for tin-plated product.
2. Not CSA/TÜV approved.

Receptacle housing



Circuits	Keying	Model No.	Q'ty / bag
2	—	F35FDC-02V-K	200
4	—	F35FDC-04V-K	200
6	—	F35FDC-06V-K	200
10	—	F35FDC-10V-K	100
20	—	F35FDC-20V-K	100

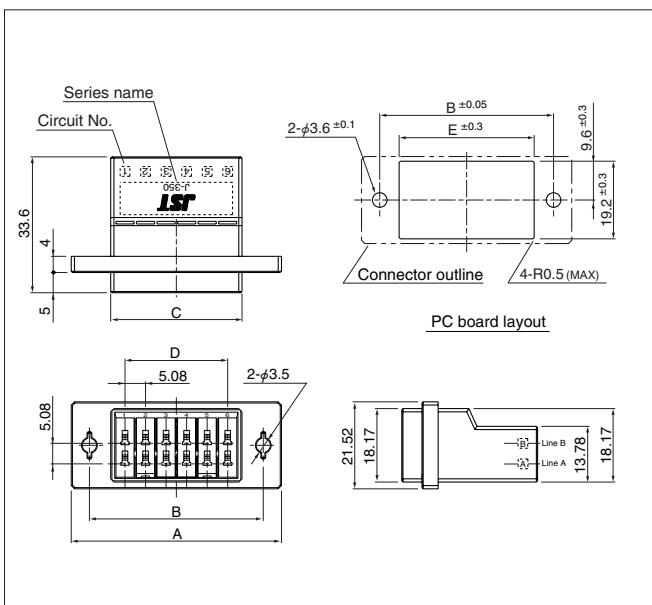
Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Note: Not CSA/TÜV approved.

Tab housing (Panel mounting type)



Circuits	Keying	Model No.	Dimensions (mm)					Q'ty / box
			A	B	C	D	E	
12	—	F35MDP-12V-K	52.00	43.00	32.48	25.40	33.40	41

Material

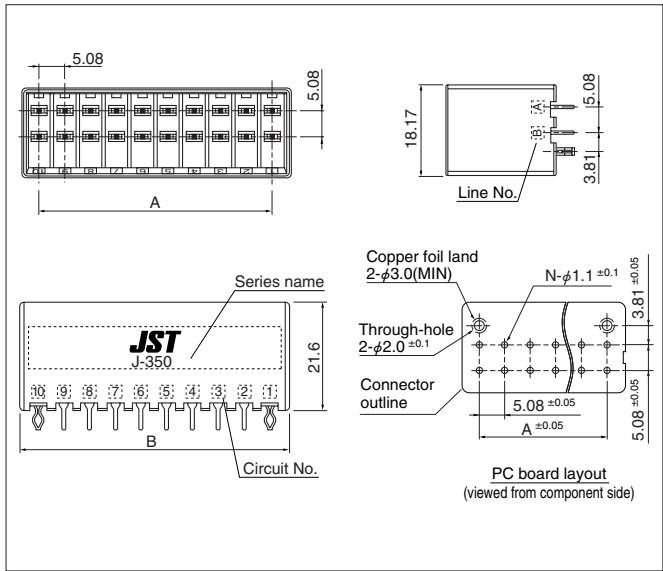
Glass-filled PBT, UL94V-0, black

RoHS compliance

Note: Not CSA/UL/TÜV approved.

J300 SERIES/J350D

Header (Top entry type)

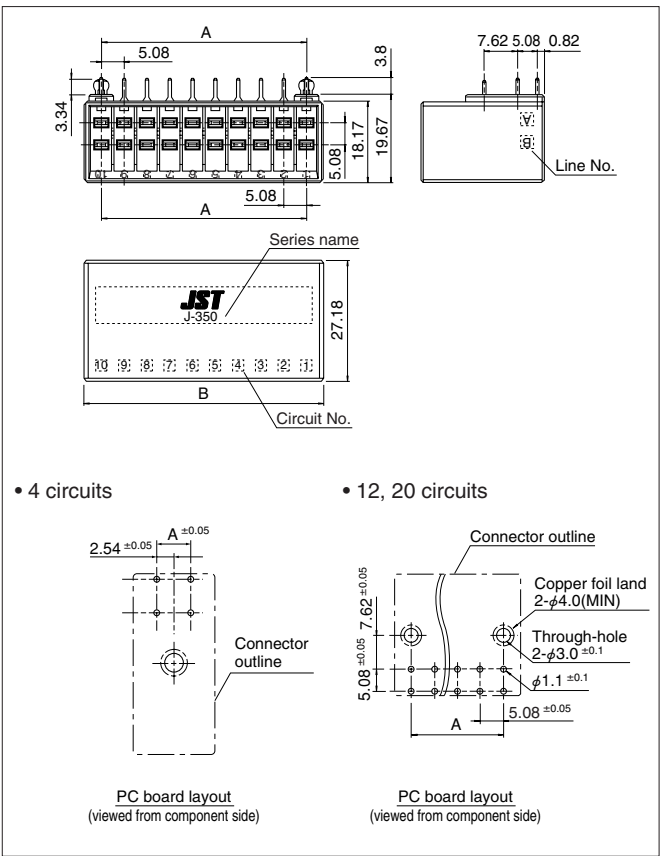


Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
12	—	BC12B-F35DK-GGR	25.4	32.48	56
20	—	BC20B-F35DK-GGR	45.72	52.8	32

Material and Finish					
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated					
Housing: Glass-filled PBT, UL94V-0, black					
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated					

RoHS compliance This product displays (LF)(AU) on a label.
Note: 1. Contact JST for tin-plated product.
2. Not CSA/TÜV approved.

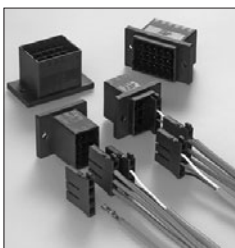
Header (Side entry type)



Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
4	—	SC04B-F35DK-GGR	5.08	12.16	152
12	—	SC12B-F35DK-GGR	25.4	32.48	56
20	—	SC20B-F35DK-GGR	45.72	52.8	32

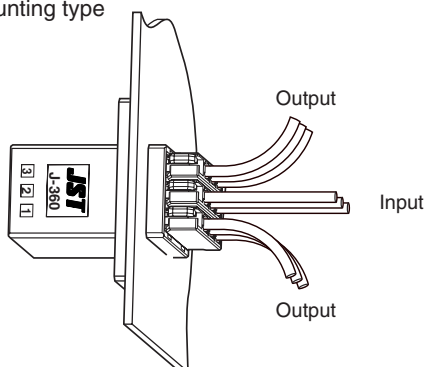
Material and Finish					
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated					
Housing: Glass-filled PBT, UL94V-0, black					
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated					

RoHS compliance This product displays (LF)(AU) on a label.
Note: 1. Contact JST for tin-plated product.
2. Not CSA/TÜV approved.

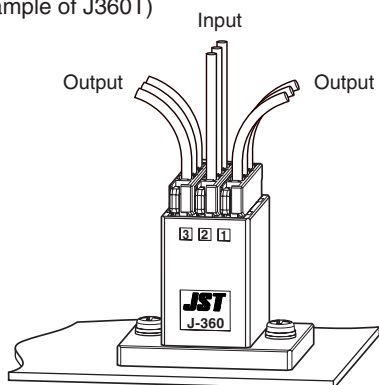


J300 SERIES/COMMON TYPE CONNECTOR

- Panel mounting type



- Direct mounting type
(Example of J360T)



- Receptacle terminal of JFA J300 series can be used.
- Between rows are commonly connected.
- Proposing rationalization of wiring.
- Mounting method of connector.

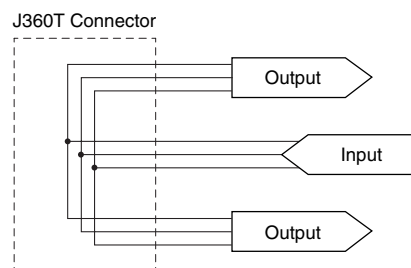
Specifications

- Current rating: 18A AC, DC (18 circuits/AWG #14)
- Voltage rating: 600V AC, DC
- Temperature range: -55°C to +105°C
(including temperature rise in applying electrical current)

*Contact JST for details.

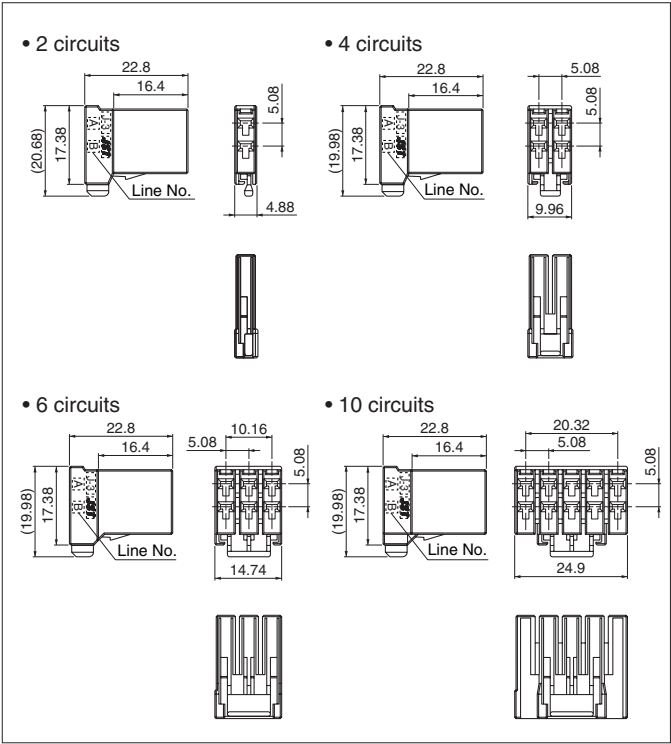
*Compliant with RoHS.

Circuit figure



COMMON TYPE/J350DC

Receptacle housing

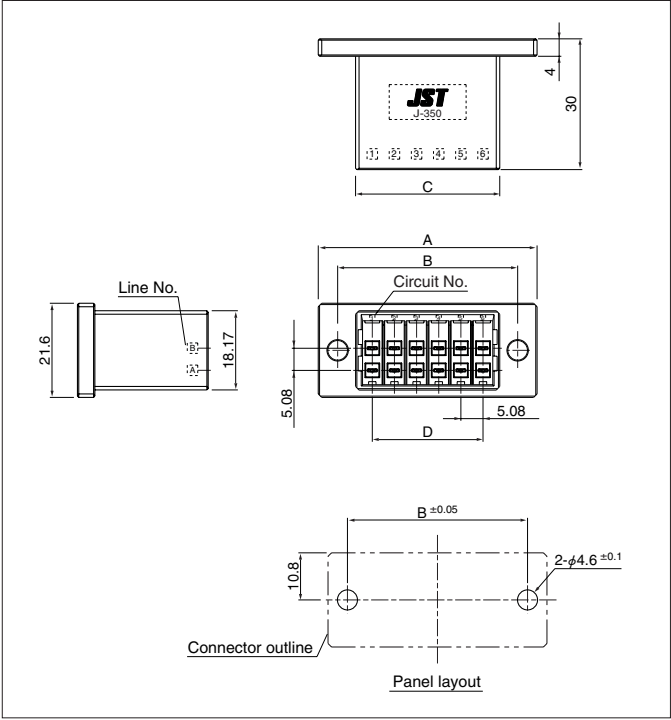


Circuits	Keying	Model No.	Q'ty / bag
2	—	F35FDC-02V-K	200
4	—	F35FDC-04V-K	200
6	—	F35FDC-06V-K	200
10	—	F35FDC-10V-K	100

Material
Glass-filled PBT, UL94V-0, black

RoHS compliance
Note: Not CSA/TÜV approved.

Tab housing assembly



Circuits	Keying	Model No.	Dimensions (mm)				Q'ty / box
			A	B	C	D	
12	—	P12B-F35DK-GFAR	57.0	44.6	33.08	25.4	196

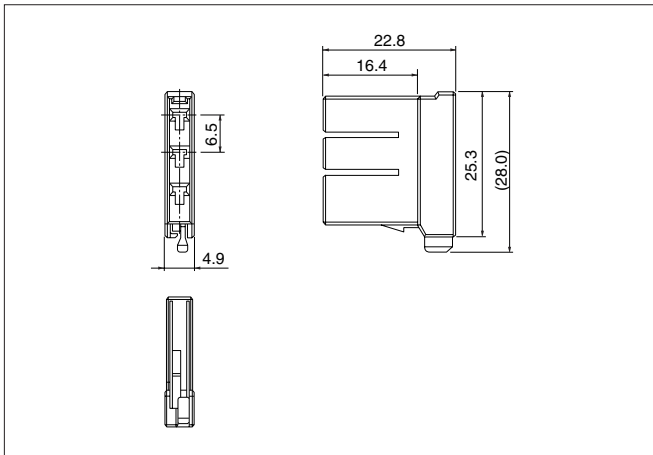
Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black

RoHS compliance
Note: 1. Tightening torque of M3 screw varies depending on screw and material to be tighten as follows.
Steel: 50cN • m max.
Copper, aluminum and plastics: 30cN • m (reference target value)
2. Not CSA/TÜV approved.

COMMON TYPE/J360T

Receptacle housing



Circuits	Keying	Model No.	Q'ty / bag
3	—	F36FTC-03V-K	200

Material

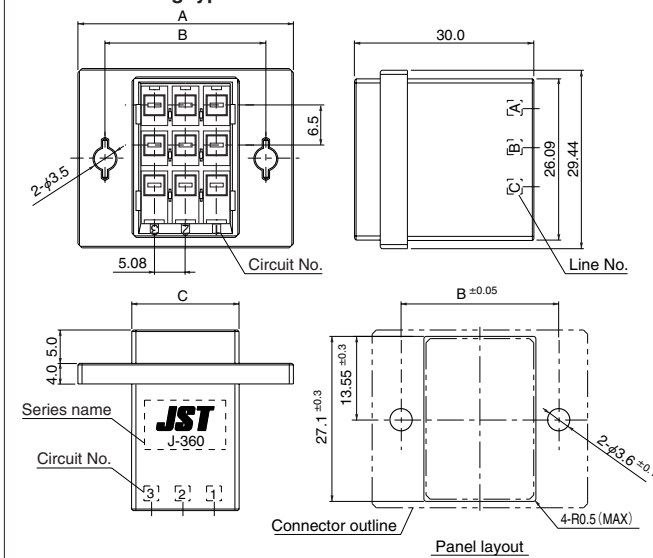
Glass-filled PBT, UL94V-0, black

RoHS compliance

Note: Not CSA/TÜV approved.

Tab housing assembly

• Panel mounting type



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
9	—	P09B-F36TK-GFR	35.0	26.1	17.8	364
18	—	P18B-F36TK-GFR	50.2	41.3	33.1	224

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black

RoHS compliance

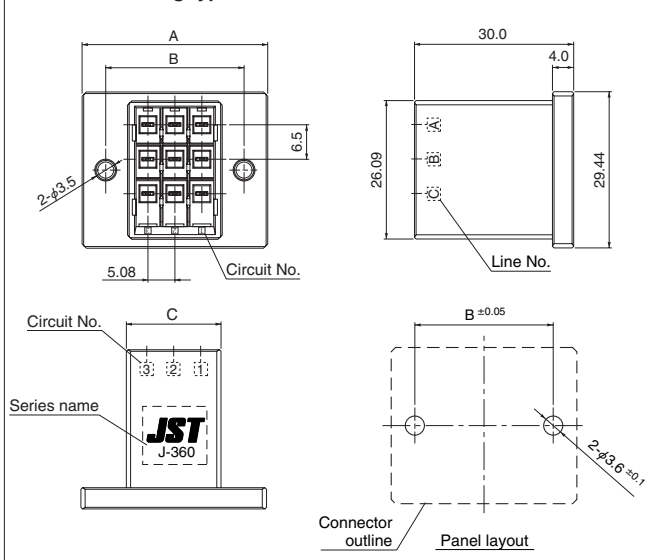
Note: 1. Tightening torque of M3 screw varies depending on screw and material to be tighten as follows.

Steel: 50cN • m max.

Copper, aluminum and plastics: 30cN • m (reference target value)

2. Not CSA/TÜV approved.

• Direct mounting type



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
9	—	P09B-F36TK-GFAR	35.0	26.1	17.8	364
18	—	P18B-F36TK-GFAR	50.2	41.3	33.1	224
24	—	P24B-F36TK-GFANR	60.4	51.5	43.2	168

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black

RoHS compliance

Note: 1. Tightening torque of M3 screw varies depending on screw and material to be tighten as follows.

Steel: 50cN • m max.

Copper, aluminum and plastics: 30cN • m (reference target value)

2. There is no cover of common tab side for 24 circuits.

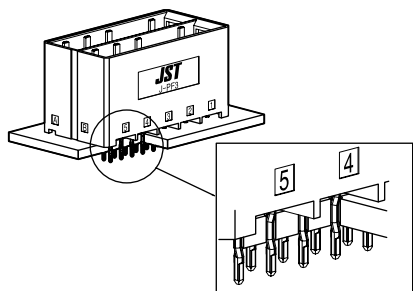
P24B-F36TK-GFANR

N means no cover.

3. The top and bottom for both the logo mark and the series name of 24 circuits reverse against display of 9 or 18 circuits.

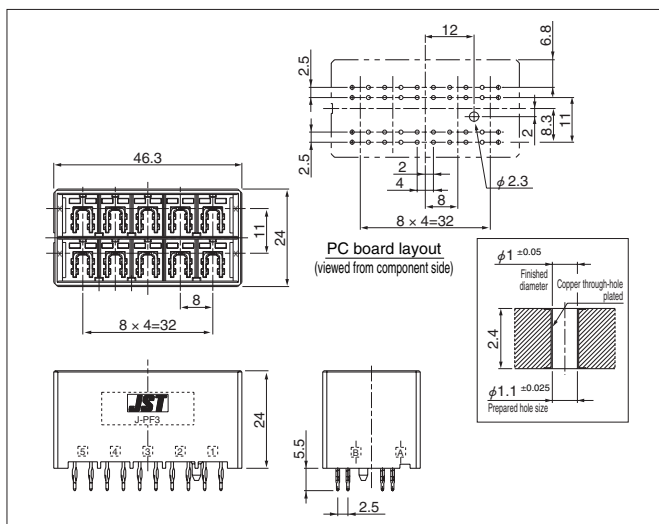
4. Not CSA/TÜV approved.

J300 SERIES/J-PF3 PRESS FIT TYPE



- Press fit contact is adopted.
- Easy PC board layout
- Use the receptacle contact of J300 series

Header Top entry type (Press fit type)



Circuits	Keying	Model No.	Q'ty / box
10	XX	B10B-JPF3MK-GKXXR	96
	YY	B10B-JPF3MK-GKYR	96
	XY	B10B-JPF3MK-GKXYR	96
	YX	B10B-JPF3MK-GKYXR	96

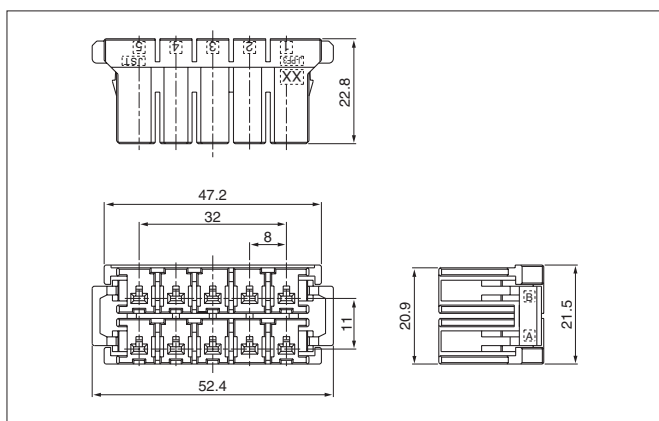
Material and Finish

Post: Copper alloy, gold-plated
Housing: Thermoplastic resin

RoHS compliance

Note: 1. Contact JST for jig for press fit.
2. Not CSA/UL/TÜV approved.

Receptacle housing



Circuits	Keying	Model No.	Q'ty / bag
10	XX	JPF3FMS-10V-KXX	400
	YY	JPF3FMS-10V-KYY	400
	XY	JPF3FMS-10V-KXY	400
	YX	JPF3FMS-10V-KYX	400

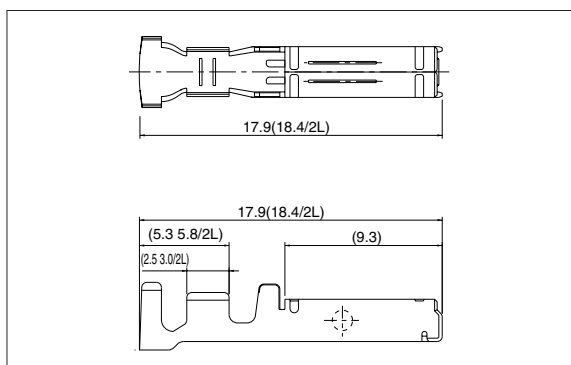
Material

Housing: Thermoplastic resin

RoHS compliance

Note: Not CSA/UL/TÜV approved.

Receptacle contact



Model No.		Applicable wire			Insulation O.D. (mm)	Q'ty	
Strip contact	Loose piece	Nominal	mm ²	AWG#		reel	Box(Loose piece)
SF3F-002GF-P2.0	BF3F-002GF-P2.0	S	0.08~0.20	28~24	0.8~1.4	3,700	1,000
SF3F-01GF-P2.0	BF3F-01GF-P2.0	M	0.20~0.50	24~20	1.2~2.6	3,700	1,000
SF3F-41GF-P2.0	LF3F-41GF-P2.0	L	0.50~1.25	20~16	1.8~2.8	3,200	1,000
*SF3F-71GF-P2.0	*BF3F-71GF-P2.0	2L	1.25~2.0	16~14	2.4~3.4	3,200	1,000

Material and Finish

Copper alloy (superior conductivity), nickel-undercoated, selective gold-plated
tin-plated (reflow treatment)

RoHS compliance

Note: *Marked products are not CSA/TÜV approved.

JFA CONNECTOR/J300 SERIES

Model number identification

Receptacle contact

S F3 F - 41 GF - P 2.0

Form: S...Strip form, B...Loose piece
L...Loose piece with curled barrels

Series name

Kind of terminal: F...Receptacle contact

Applicable wire: 002...AWG #28 ~ #24, 01...AWG #24 ~ #20
41...AWG #20 ~ #16, 71...AWG #16 ~ #14

Surface finish: GF...Nickel-undercoated, 0.38 μ m selective gold-plated
GI...Nickel-undercoated, 0.76 μ m selective gold-plated
T...Tin-plated (Reflow treatment)

Material: P...Copper alloy

Terminal size

Tab contact

S F3 M - 41 GF - M 2.0 N

Form: S...Strip form, B...Loose piece
L...Loose piece with curled barrels

Series name

Kind of terminal: M...Tab contact

Applicable wire: 01...AWG #24 ~ #20, 41...AWG #20 ~ #16
71...AWG #16 ~ #14

Surface finish: GF...Nickel-undercoated, 0.38 μ m selective gold-plated
GI...Nickel-undercoated, 0.76 μ m selective gold-plated
T...Tin-plated (Reflow treatment)

Material: M...Copper alloy

Terminal size

Sequential identification

Receptacle housing

F31 F S S - 03 V - K X

Series name

Type of connector: F...Receptacle housing

Rows: S...Single-row
D...Double-row with 5.08mm line pitch
M...Double-row with 7.62mm line pitch
F...Quadruple-row with 5.08mm line pitch

Configuration: S...Side locking, C...Center locking

No. of circuits: 1 ~ 6, 8, 10, 12, 16, 20

Flammability: V...UL94V-0

Color indication: K...Black, S...White, E...Blue

Keying: X...X-Keying, Y...Y-Keying, XX...XX-Keying
YY...YY-Keying, XY...XY-Keying, Blank...Without Keying No.

Tab housing

F31 M S F - 03 V - K X

Series name

Kind of terminal: M...Tab housing

Rows: S...Single-row, D...Double-row with 5.08mm line pitch
M...Double-row with 7.62mm line pitch

Configuration: F...Free hanging, P...Panel mounting

No. of circuits: 1 ~ 6, 8, 10, 12, 16, 20

Flammability: V...UL94V-0

Color indication: K...Black, S...White, E...Blue

Keying: X...X-Keying, Y...Y-Keying, XX...XX-Keying
YY...YY-Keying, XY...XY-Keying, Blank...Without Keying No.

Header

B 05 B - F31 S K - GG X R

PC board mounting direction:
B...Top entry type
S...Side entry type
BC...Top & center locking
SC...Side & center locking

No. of circuits: 2 ~ 6, 8, 10, 12, 16, 20

Product name: Header

Series name

Rows: S...Single-row
D...Double-row with 5.08mm line pitch
M...Double-row with 7.62mm line pitch
T...Triple-row with 7.62mm line pitch
F...Quadruple-row with 5.08mm line pitch

Color indication: K...Black, S...White, E...Blue

Surface finish: GG...Nickel-undercoated, 0.38 μ m selective gold-plated
GK...Nickel-undercoated, 0.76 μ m selective gold-plated
T...Tin-plated (Reflow treatment)

Keying: X...X-Keying, Y...Y-Keying, XX...XX-Keying, YY...YY-Keying,
XY...XY-Keying, XA...XXX-Keying, XB...XXY-Keying,
XC...XYX-Keying, XD...YYX-Keying, Blank...Without Keying No.

Packaging form: R...Tray, M...Magazine stick

Receptacle assembly

03 JFAT - SA Y GF - I

No. of circuits: 3 ~ 6

Series name

Mating type: SA...Normal type, SB...Reverse type

Keying: X...X-Keying, Y...Y-Keying

Surface finish: GF...Nickel-undercoated, 0.38 μ m selective gold-plated

Shape: I ... I type

Tab housing assembly

P 18B-F36T K - GF A R

PC board mounting direction: Panel mounting type

No. of circuits - Assembly: 9, 12, 18, 24

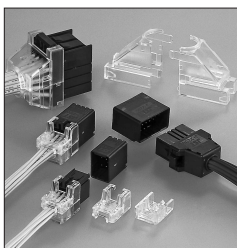
Series name: F36T...J360T, F35D...J350DC

Color indication: K...Black

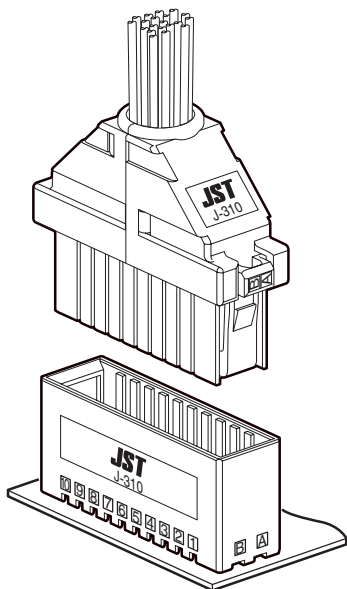
Surface finish: GF...Nickel-undercoated, 0.38 μ m selective gold-plated

Configuration: A...Direct mounting type, AF...Direct mounting without housing cover type,
Blank...Panel mounting type

Packaging form: R...Tray



JFA CONNECTOR/PROTECTOR

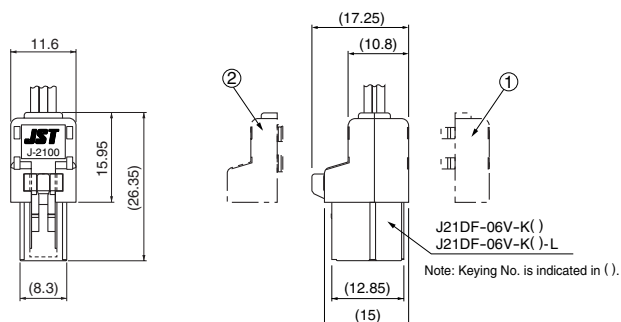


Note: Protector is not UL/CSA/TÜV approved

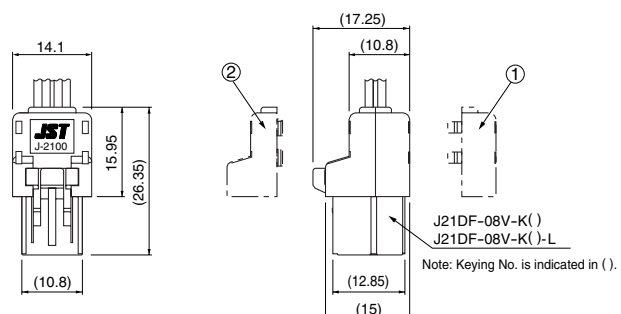
When applying a current to the connector, the protector prevents foreign substances being inserted into mating part from the wiring side. However it has no function of holding the wire securely.

J2000 Series

•J2100 series for 6 circuits



•J2100 series for 8 circuits



No.	Model No.	Color
①	J21PF-06SCA	Transparent
②	J21PF-06SCB	Transparent
Material		
Polycarbonate		

RoHS compliance

No.	Model No.	Color
①	J21PF-08SCA	Transparent
②	J21PF-08SCB	Transparent
Material		
Polycarbonate		

RoHS compliance

JFA CONNECTOR/PROTECTOR

J2000 Series

•J2100 series for 10 circuits

J21DF-10V-K()-L
Note: Keying No. is indicated in ().

No.	Model No.	Color
①	J21PF-10SCA	Transparent
②	J21PF-10SCB	Transparent
Material		
Polycarbonate		

RoHS compliance

•J2100 series for 16 circuits

J21DF-16V-K()-L
Note: Keying No. is indicated in ().

No.	Model No.	Color
①	J21PF-16SCA	Transparent
②	J21PF-16SCB	Transparent
Material		
Polycarbonate		

RoHS compliance

•J2100 series for 20 circuits

J21DF-20V-K()-L
Note: Keying No. is indicated in ().

No.	Model No.	Color
①	J21PF-20SCA	Transparent
②	J21PF-20SCB	Transparent
Material		
Polycarbonate		

RoHS compliance

•J2200 series for 10 circuits

J22DF-10V-K()
Note: Keying No. is indicated in ().

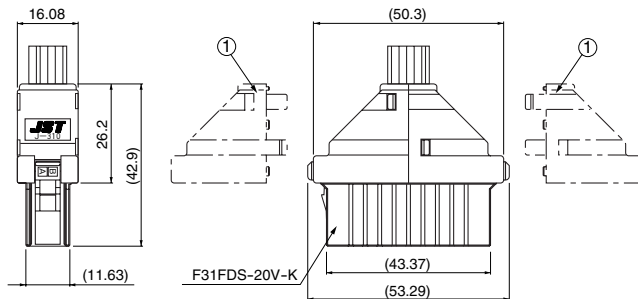
No.	Model No.	Color
①	J22PF-10VK	Black
Material		
Glass-filled PBT		

RoHS compliance
Note: Two protectors are used.

JFA CONNECTOR/PROTECTOR

J300 Series

•J310D series for 20 circuits



No.	Model No.	Color
①	F31PFD-20VK	Black
①	F31PFD-20SC	Transparent

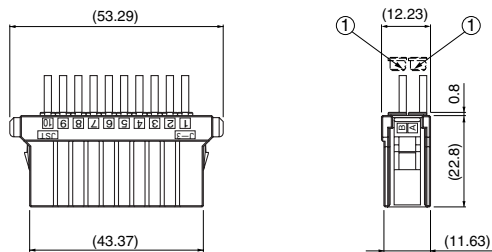
Material

Black: Glass-filled PBT
Transparent: Polycarbonate

RoHS compliance

Note: Two protectors of the same color are used.

•J310D series / Embedding-type protector for 8, 10 circuits



No.	Model No.	Color
①	F31PFS-10KU	Black

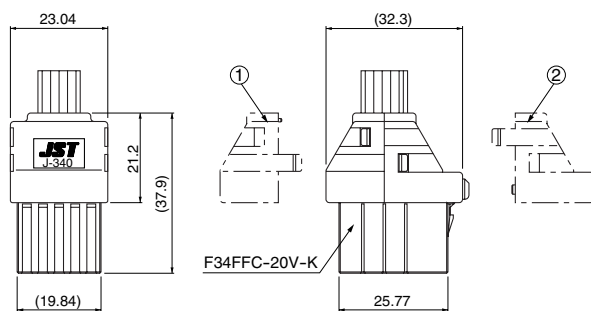
Material

Glass-filled PBT

RoHS compliance

Note: This protector is cut and used for each number of circuits.

•J340F series for 20 circuits



No.	Model No.	Color
①	F34PFF-20VKA	Black
	F34PFF-20SCA	Transparent
②	F34PFF-20VKB	Black
	F34PFF-20SCB	Transparent

Material

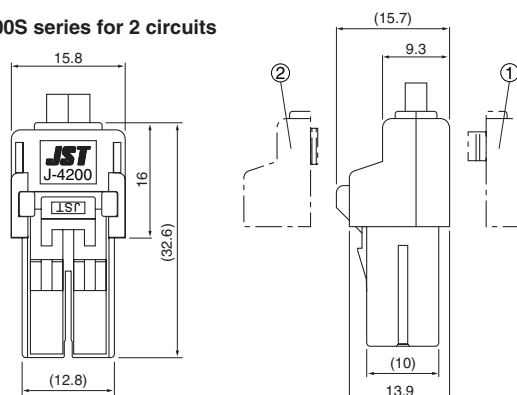
Black: Glass-filled PBT
Transparent: Polycarbonate

RoHS compliance

Note: Both 1 and 2 protectors in the same color are used.

J4000 Series

•J4200S series for 2 circuits



No.	Model No.	Color
①	J42PF-02SCA	Transparent
②	J42PF-02SCB	Transparent

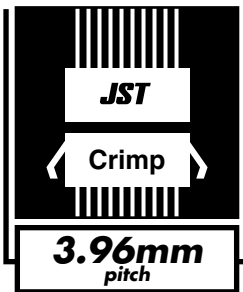
Material

Polycarbonate

RoHS compliance

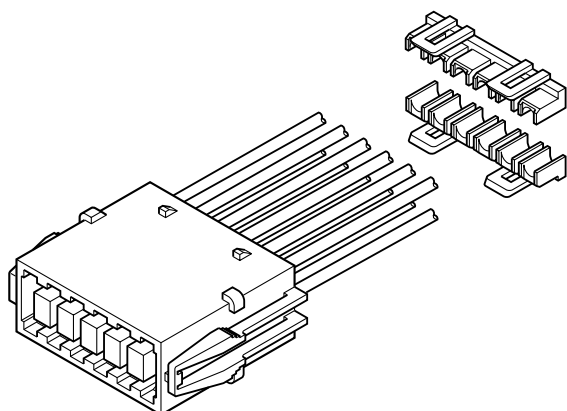
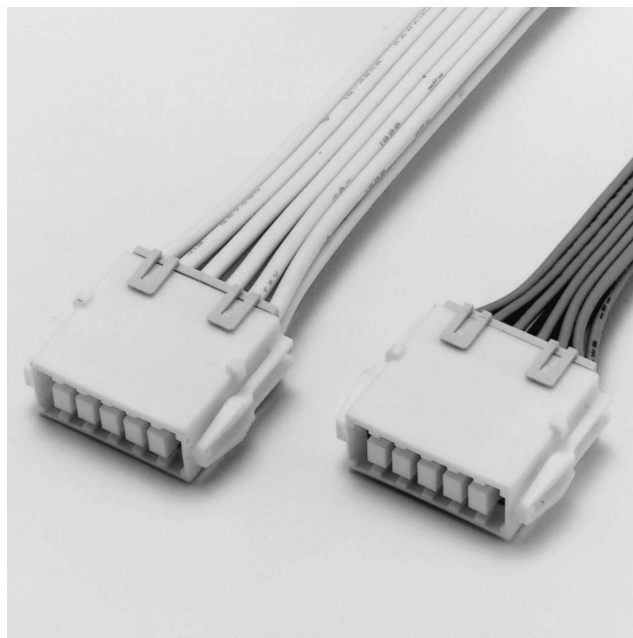
(Patent pending)

When applying a current to the connector, the protector prevents foreign substances being inserted into mating part from the wiring side. However it has no function of holding the wire securely.



BL CONNECTOR

Wire-to-wire connector for short-circuit connection



Features

• For short-circuit connection

Tab contacts for short-circuit connection are to be mounted in the housing.

• Housing lance

The resilient plastic housing lances secure the contacts in the housing. Since the lances are in the housings rather than on the contacts, they are not affected by handling, and allow the contacts to be lightly inserted without undue force. This establishes a feeling of uniform insertion and a noticeable change in that feeling when insertion is completed.

• Secondary retainers

The secondary retainers enhance safety in case of partial insertion or accidental release of the contact. Even if a contact is inserted incompletely, the retainer guides the contact to the proper position and securely locks it in place.

• Panel lock construction

Our unique compact panel lock is designed to prevent tangling with wires and accidental breakage because of handling.

• Tab contact built-in type is available

Connectors with contacts already built-in can be supplied too. Place orders with model numbers exclusively allocated to them.

Specifications

- Current rating: 7A AC, DC max./ line
- Voltage rating: 300V AC, DC max.
- Temperature range: -25°C to +90°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/7m Ω max.
After environmental testing/10m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #22 to #18
0.3 to 0.75mm²
- Applicable panel thickness: 0.7 to 2.0mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Note: The current rating varies depending on the number of circuits and the wire size used in each connector. The table below lists the current rating as a function of the number of circuits and wire size.

Current unit: A

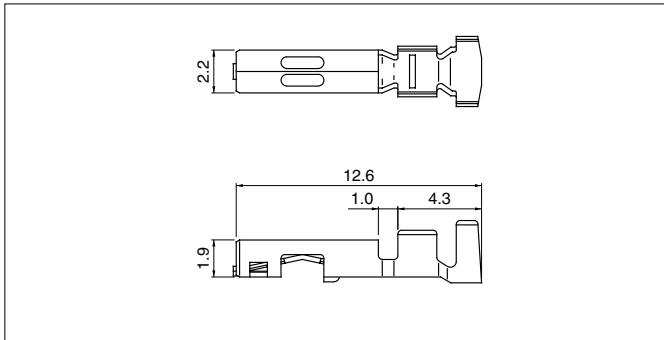
Circuits	Wire size (AWG)		
	#18	#20	#22
8,12	7	5	4

Standards

Recognized E60389

Certified LR20812

Contact



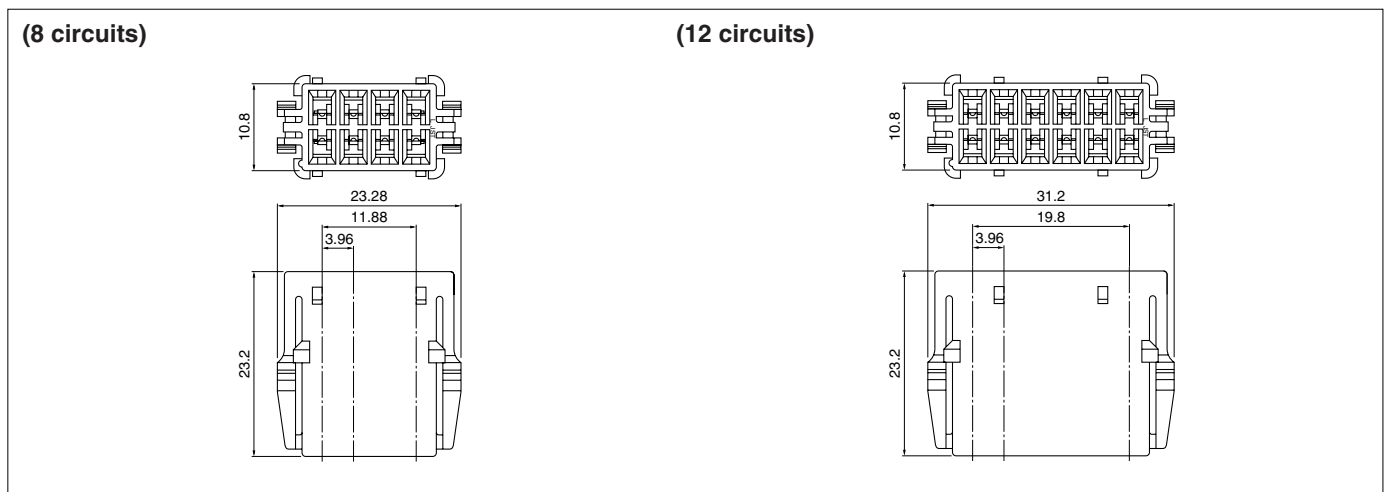
Model No.	Applicable wire			Q'ty / reel
	mm ²	AWG #	Insulation O.D. (mm)	
SSF-21T-P1.4	0.3 to 0.75	22 to 18	1.5 to 2.2	6,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Housing



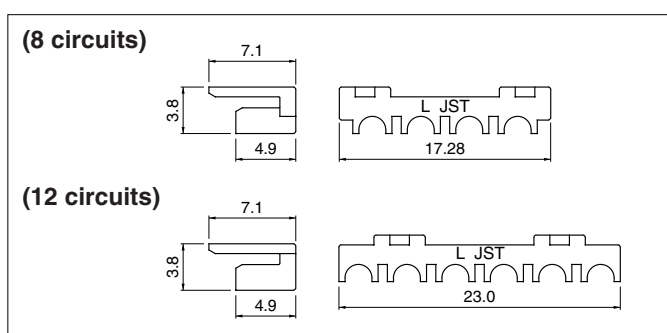
Circuits	Model No.	Q'ty / bag
8	BL-08V	100
12	BL-12V	100

Material

PA 66, UL94V-0

RoHS compliance

Retainer



Circuits	Model No.	Q'ty / bag
8	HLS-08V	1,000
12	HLS-12V	1,000

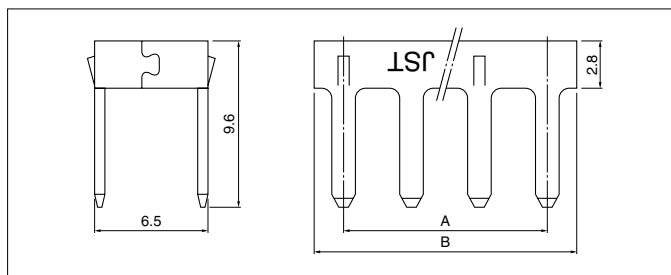
Material

Glass-filled PA 66, UL94V-0

RoHS compliance

BL CONNECTOR

Tab contact



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
8	BLT-08T-0.5	11.88	15.08	500
12	BLT-12T-0.5	19.80	23.00	250

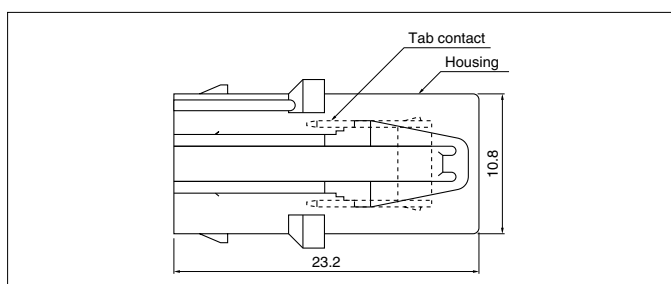
Material and Finish

Brass, tin-plated (reflow treatment)

RoHS compliance

Note: Contact JST for the jig to mount the tab contact onto the housing.

Tab contact built-in product



Circuits	Model No.	Q'ty / box
8	BL-08V ST	100
12	BL-12V ST	100

Material and Finish

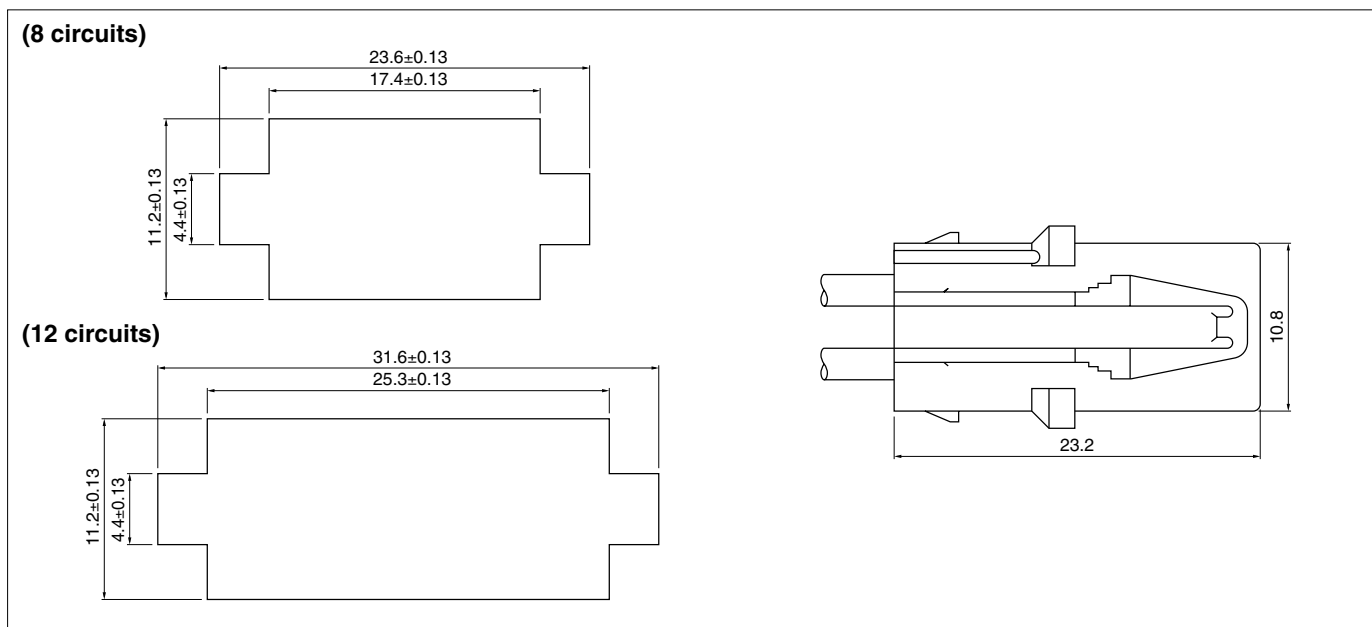
Housing: PA 66, UL94V-0

Tab contact: Brass, tin-plated (reflow treatment)

RoHS compliance

Note: The above housings are tab contact built-in product.

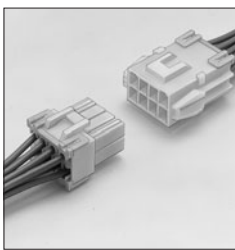
Panel layout and Assembly layout



Note: 1. Punch holes in the panel according to the sketch and table shown above. Burrs must be removed.
2. The strength of the panel must be considered when punching two or more holes.
3. The connector must be inserted from the same side as the hole is punched.

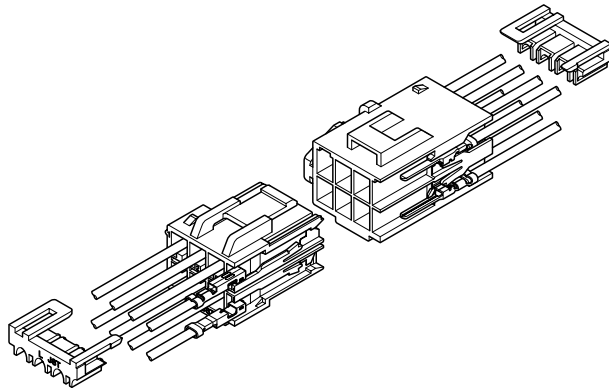
Crimping machine, Applicator

Contact	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies
SSF-21T-P1.4	AP-K2N	MKS-L	MK/SSF/M-21-14	APLMK SSF/M21-14



HL CONNECTOR

3.96mm pitch/Disconnectable Crimp style Wire-to-wire connectors



- Low insertion force contact
- Housing lance
- Inner-housing lock
- Secondary retainers
- Panel lock construction

Standards

- Recognized E60389
- Certified LR20812
- R9551072

Specifications

- Current rating: 7A AC, DC max.
- Voltage rating: 300V AC, DC max.
- Temperature range: -25°C to +90°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/7m Ω max.
After environmental testing/10m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #22 to #18
0.3 to 0.75mm²
- Applicable panel thickness: 0.7 to 2.0mm
- * RoHS compliant products are published.
- * Temperature Range:
The aforementioned temperature range of this connector is described in JST Standard Product Specification.
Maximum temperature registered in UL is 105°C.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

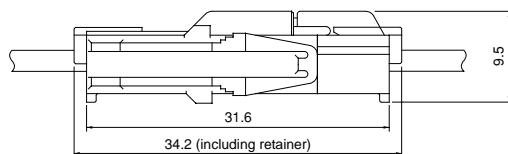
Note: The current rating varies depending on the number of circuits and the wire size used in each connector. The table below lists the current rating as a function of the number of circuits and wire size.

Current unit: A

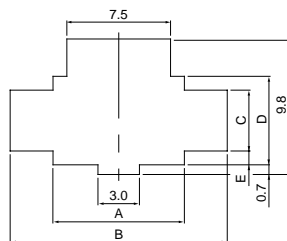
Circuits	Wire size (AWG)		
	#18	#20	#22
2	7	5	4
3	6	4	4
4	6	4	4
8	4	3	3
9	4	3	3
12	3	2	2

Panel layout and Assembly layout

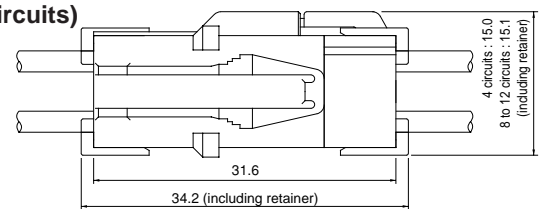
(2 and 3 circuits)



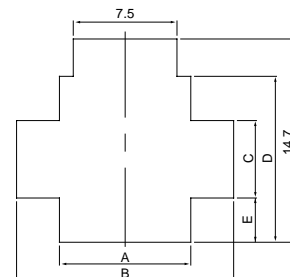
Shape I



(4, 8 and 12 circuits)



Shape II



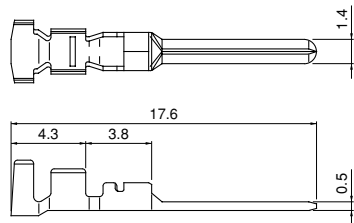
Circuits	Receptacle housing	Panel hole shape	Panel hole dimensions (mm)			General tolerance		Applicable panel thickness (mm)
			A ±0.13	B ±0.13	C ±0.1	D ±0.13	E ±0.1	
2	HLR-02V	I	9.5	15.7	4.4	6.4	1.0	0.7 ~ 2.0
3	HLR-03V	I	13.5	19.7	4.4	6.4	1.0	
4	HLR-04V	II	9.5	15.7	5.6	12.0	3.2	
8	HLR-08V	II	17.4	23.6	5.6	12.0	3.2	
12	HLR-12V	II	25.3	31.6	5.6	12.0	3.2	

- Note: 1. Punch holes in the panel according to the sketch and table shown above. Burrs must be removed.
2. The strength of the panel must be considered when punching two or more holes.
3. The connector must be inserted from the same side as the hole is punched.

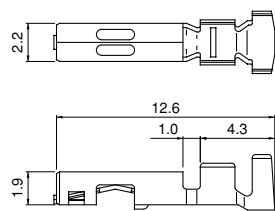
HL CONNECTOR

Contact

Pin contact



Socket contact



Model No.		Applicable wire		Insulation O.D. (mm)	Q'ty / reel
Pin contact	Socket contact	mm ²	AWG #		
SSM-21T-P1.4	SSF-21T-P1.4	0.3 ~ 0.75	22 ~ 18	1.5 ~ 2.2	6,000

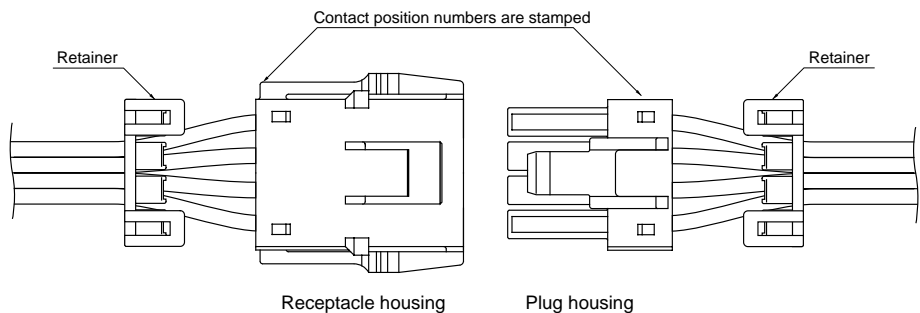
Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

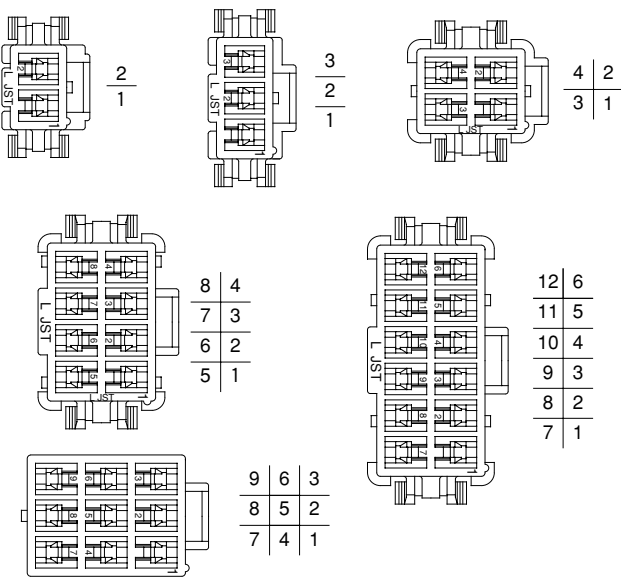
RoHS compliance
Note: Contact JST for special products.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SSM-21T-P1.4	AP-K2N	MKS-L	MK/SSF/M-21-14	APLMK SSF/M21-14
SSF-21T-P1.4		—	—	—

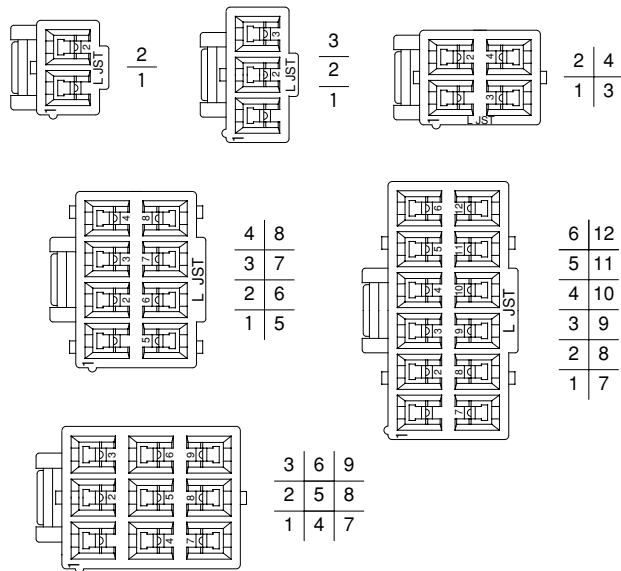
Contact position location numbers



Receptacle housing



Plug housing



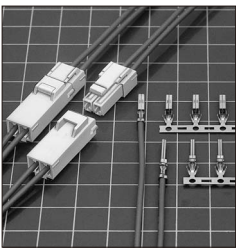
HL CONNECTOR

Housing

Material: Housing...PA 66, UL94V-0, white
Retainer...Glass-filled PA 66, UL94V-0, ivory

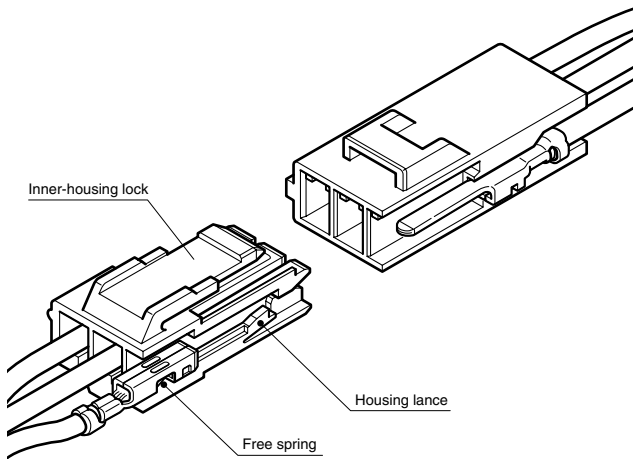
Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)	Plug housing(for socket contact)	Retainer
2	300V	7A	HLR-02V 	HLP-02V 	HLS-02V (commonly used for 2-circuit housing and 4-circuit housing)
			HLR-02VF 		
3	300V	6A	HLR-03V 	HLP-03V 	HLS-03V
			HLR-03VF 		
4	300V	6A	HLR-04V 	HLP-04V 	HLS-02V (commonly used for 2-circuit housing and 4-circuit housing)
			HLR-04VF 		
8	300V	4A	HLR-08V 	HLP-08V 	HLS-08V
			HLR-08VF 		
9	300V	4A	HLR-09VF 	HLP-09V 	HLS-09V
			HLR-09V 		
12	300V	3A	HLR-12V 	HLP-12V 	HLS-12V
			HLR-12VF 		

RoHS compliance



SL CONNECTOR

3.96mm pitch/Disconnectable Crimp style Wire-to-wire connectors



- Low insertion force contact
- Housing lance
- Inner-housing lock

Specifications

- Current rating: 7A AC, DC max.
- Voltage rating: 300V AC, DC max.
- Temperature range: -25°C to +90°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/7m Ω max.
After environmental testing/10m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #26 to #18
0.13 to 0.75mm²
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Note: The current rating varies depending on the number of circuits and the wire size used in each connector. The table below lists the current rating as a function of the number of circuits and the wire size.

Current unit: A

Circuits	Wire size (AWG)				
	#18	#20	#22	#24	#26
1	7	5	4	3	2
2	7	5	4	3	2
3	6	4	4	3	2
4	6	4	4	3	2
6	6	4	4	3	2

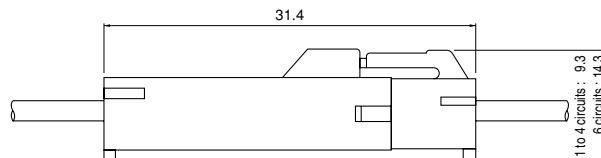
Standards

Recognized E60389

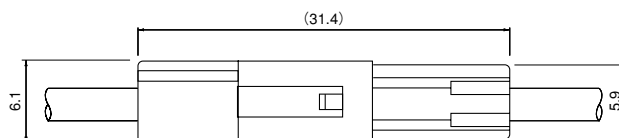
Certified LR20812

R9351104

Assembly layout

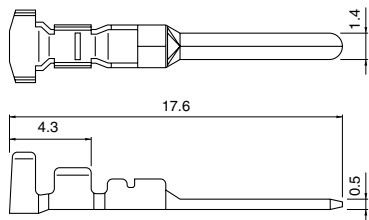


Both side lock product

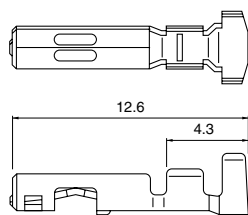


Contact

Pin contact



Socket contact



Model No.		Applicable wire		Insulation O.D. (mm)	Q'ty / reel
Pin contact	Socket contact	mm²	AWG #		
SSM-01T-P1.4	SSF-01T-P1.4	0.13~0.5	26~20	1.3~2.5	6,000
SSM-21T-P1.4	SSF-21T-P1.4	0.3 ~0.75	22~18	1.5~2.5	

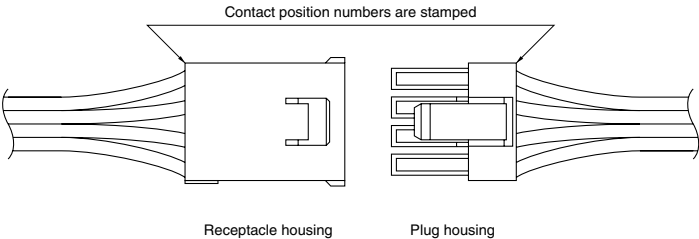
Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

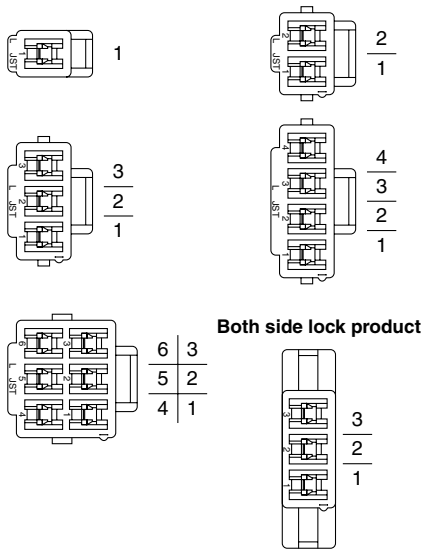
RoHS compliance
Note: Contact JST for special products.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SSM-01T-P1.4	AP-K2N	MKS-L	MK/SSF/M-01-14	APLMK SSF/M01-14
SSF-01T-P1.4		—	—	—
SSM-21T-P1.4		MKS-L	MK/SSF/M-21-14	APLMK SSF/M21-14
SSF-21T-P1.4		—	—	—

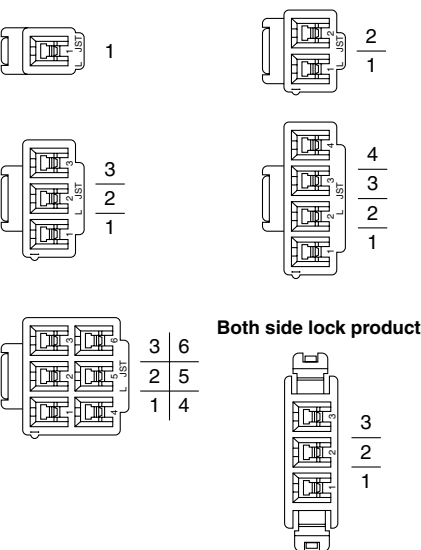
Contact position location numbers



Receptacle housing



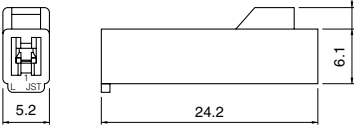
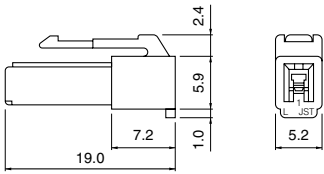
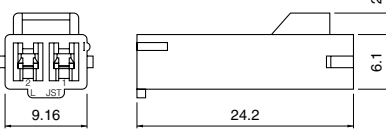
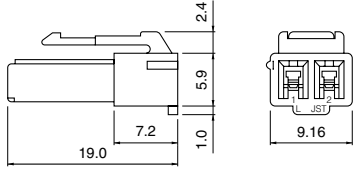
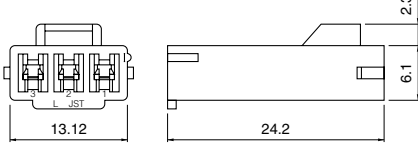
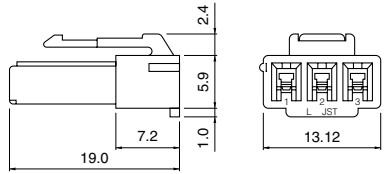
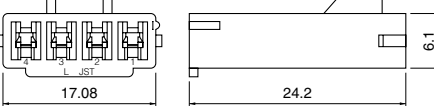
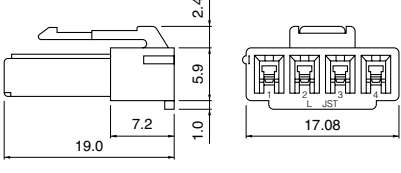
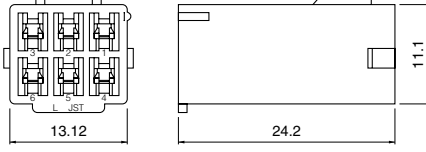
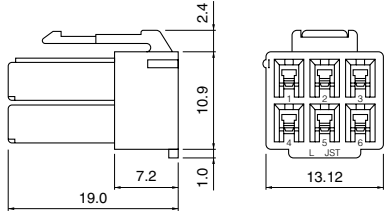

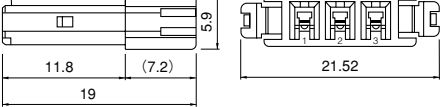
Plug housing



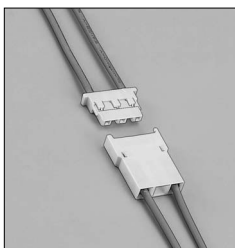
SL CONNECTOR

Housing

Material: PA 66, UL94V-0, white

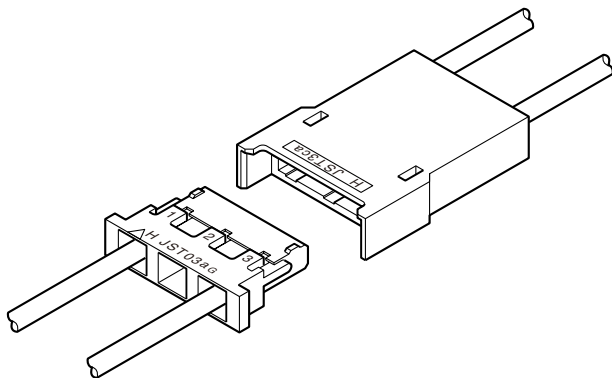
Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)		Plug housing(for socket contact)	
				Q'ty / bag		Q'ty / bag
1	300V	7A	SLR-01VF 	1,000	SLP-01V 	1,000
2	300V	7A	SLR-02VF 	500	SLP-02V 	500
3	300V	6A	SLR-03VF 	500	SLP-03V 	500
4	300V	6A	SLR-04VF 	500	SLP-04V 	500
6	300V	6A	SLR-06VF 	500	SLP-06V 	500
3	300V	6A	Both side lock product *SLR-03VF-MD 	500	Both side lock product *SLP-03V-MD 	500

RoHS compliance
Note: 1. *Marked products are not CSA/TÜV approved.
2. Contact JST for special products.



BHM CONNECTOR

4.0/8.0mm pitch/Disconnectable Crimp style Wire-to-wire connectors



Wire-to-wire version connectors, designed for liquid crystal display back light lamps.

- **Contact lances**
- **Box shaped housing**

Specifications

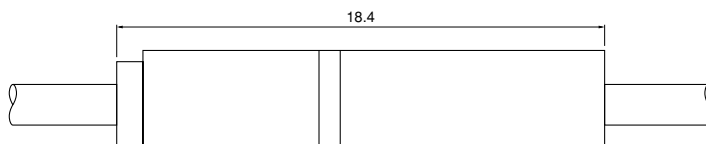
- Current rating: 1.0A AC, DC max.
- Voltage rating: 600V AC, DC max.
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,800V AC/minute
- Applicable wire: AWG #28 to #22
0.08 to 0.33mm²
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

 Recognized E60389

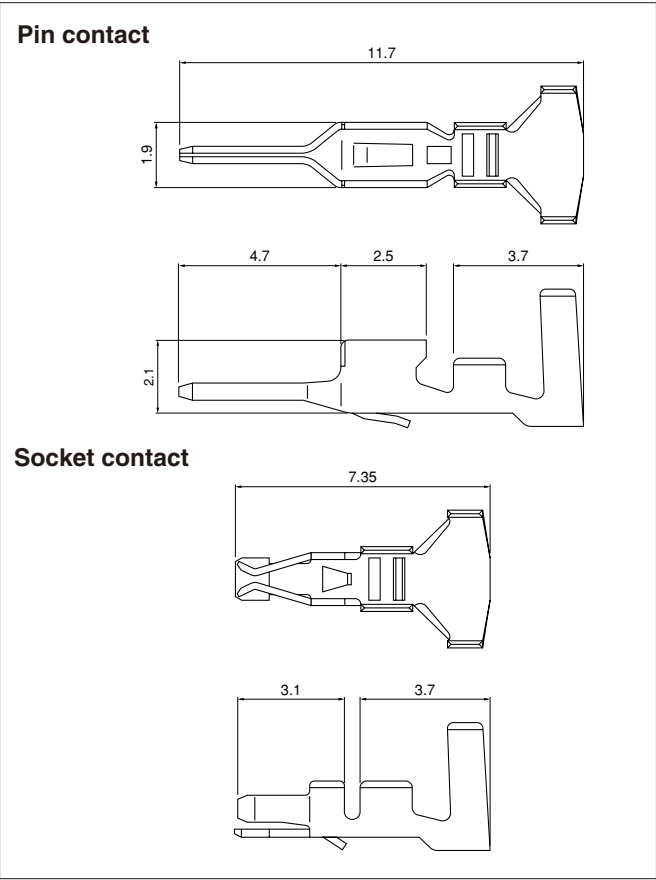
 Certified LR20812

Assembly layout



BHM CONNECTOR

Contact



Model No.		Applicable wire		Insulation O.D. (mm)	Q'ty / reel
Pin contact	Socket contact	mm ²	AWG #		
SBHM-001T-P0.5	SBH-001T-P0.5	0.08~0.33	28~22	1.6~2.4	4,000

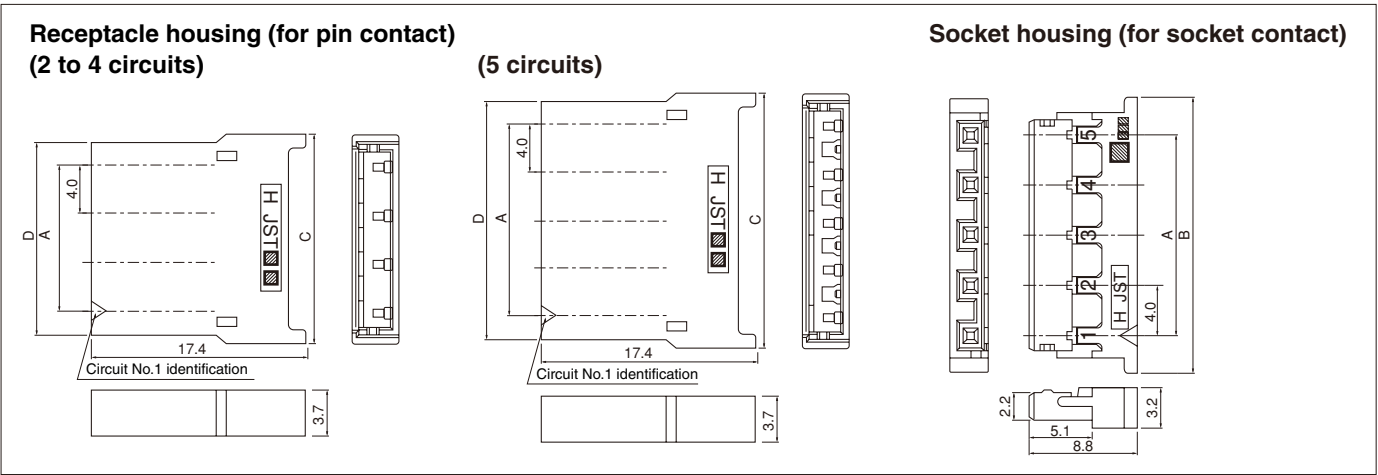
Material and Finish	
Phosphor bronze, tin-plated (reflow treatment)	

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SBHM-001T-P0.5	AP-K2N	MKS-L	MK/SBH/M-001-05	APLMK SBH/M001-05
		*MKS-SC1-1	SC/SBH/M-001-05	APLSC SBH/M001-05
SBH-001T-P0.5		MKS-L	MK/SBH/M-001-05	APLMK SBH/M001-05
		*MKS-SC1-1	SC/SBH/M-001-05	APLSC SBH/M001-05

Note: *Strip-crimp applicator

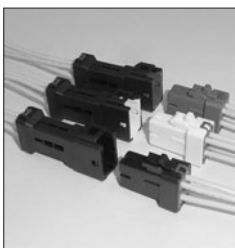
Housing



Circuits	Model No.		Dimensions (mm)				Q'ty / bag
	Receptacle housing	Socket housing	A	B	C	D	
2	BHMR-02V	BHR-02VS-1	4.0	9.8	9.1	7.8	1,000
3	BHMR-03V	BHR-03VS-1	8.0	13.8	13.1	11.8	1,000
4	BHMR-04V	BHR-04VS-1	12.0	17.8	17.1	15.8	1,000
5	BHMR-05V-R	BHR-05VS-1	16.0	21.8	21.1	19.8	1,000

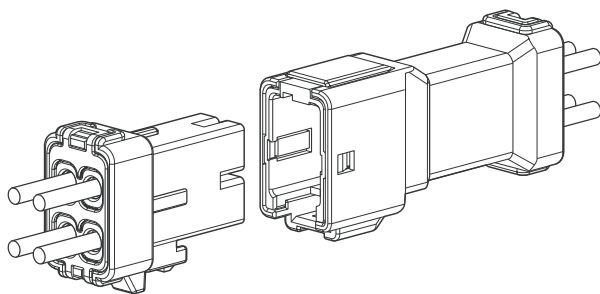
Material	
PA 66, UL94V-0, natural (white)	

RoHS compliance
Note: BHMR-05V-R and BHR-05VS-1 have ribs against prying.



JWPS CONNECTOR

4.0mm pitch/Disconnectable Crimp style Wire-to-wire connectors (waterproof type)



This JWPS connector can be used for the place of which especially waterproof is required.

This is the wire-to-wire connector that is grade 7 ingress protection of JIS C 0920 (IPX7 of IEC 60529).

- **Waterproof performance**
- **Contained seal ring**
- **Solid rubber seal**
- **Double-spring construction**
- **Housing-to-terminal locks**
- **Mis-mating prevention key**

Specifications

- Current rating: 4 A AC, DC (AWG #22)
: 5 A AC, DC (AWG #20)
: 6 A AC, DC (AWG #18)
- Voltage rating: 300 V AC, DC
- Temperature range: -55°C to +85°C
(including temperature rise in applying electrical current)
- Applicable wire: Conductor size/ AWG #22 to #18
Insulation O.D./ 1.75 to 2.5 mm
- Waterproof grade: Grade 7 ingress protection of JIS C 0920 (IPX7 of IEC 60529)

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

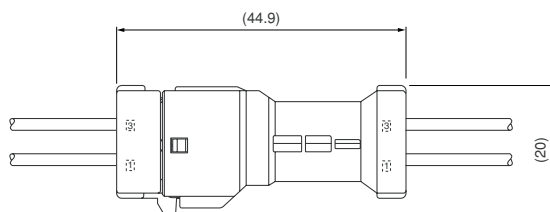
* Contact JST for details.

* Compliant with RoHS.

Standards

 Recognized E60389

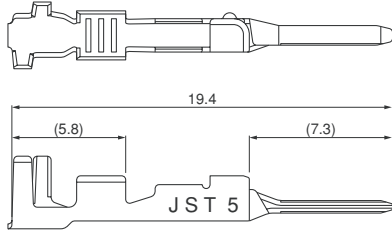
 Certified LR20812



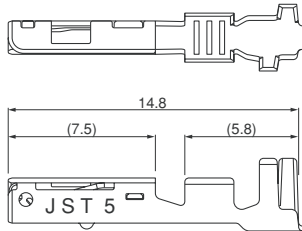
JWPS CONNECTOR

Contact

Tab contact



Receptacle contact



Model No.		Applicable wire	Insulation	Q'ty /
Tab contact	Receptacle contact	AWG#	O.D. (mm)	reel
SJWPST-21T-M1.0N	SJWPSR-21T-P1.0	22~18	1.75~2.5	4,500

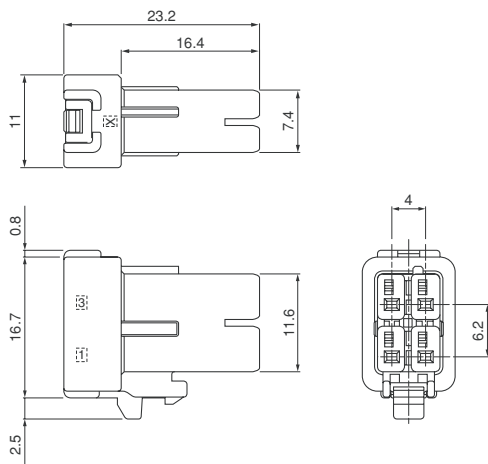
Material and Finish

Copper alloy, tin-plated

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SJWPST-21T-M1.0N	AP-K2N	MKS-L	MK/SJWPSR/T-21-10	APLMK SJWPSR/T21-10
		—	—	—
SJWPSR-21T-P1.0	AP-K2N	MKS-L	MK/SJWPSR/T-21-10	APLMK SJWPSR/T21-10
		—	—	—

Receptacle housing assembly



Circuits	Keying	Model No.	Q'ty / box
4	X	04R-JWPS-VKLE-DX-A	400
	Y	04R-JWPS-VSLE-DY-A	400
	Z	04R-JWPS-VELE-DZ-A	400

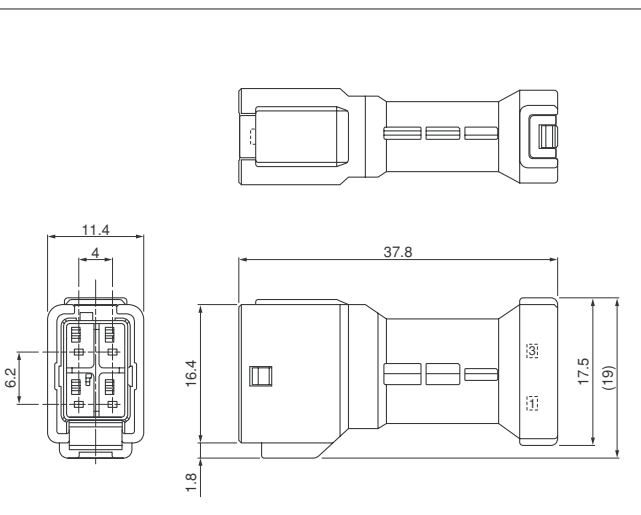
Material

Receptacle housing: Glass-filled PBT, UL94V-0, X keying (black), Y keying (natural), Z keying (blue)
Retainer: PBT, UL94V-0, purple
Seal rubber plate: Silicone rubber, light blue

RoHS compliance

Note: Seal rubber plate and retainer are preassembled in receptacle housing assembly.

Tab housing assembly



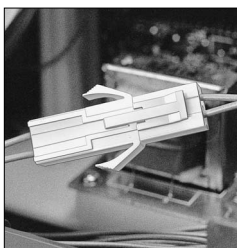
Circuits	Keying	Model No.	Q'ty / box
4	X	04T-JWPS-VKKLE-DX-A1	180
	Y	04T-JWPS-VKSLE-DY-A1	180
	Z	04T-JWPS-VKELE-DZ-A1	180

Material

Tab housing: Glass-filled PBT, UL94V-0, black
Seal ring holder: Glass-filled PBT, UL94V-0, X keying (black), Y keying (natural), Z keying (blue)
Retainer: PBT, UL94V-0, purple
Seal ring: Silicone rubber, brown
Seal rubber plate: Silicone rubber, right blue

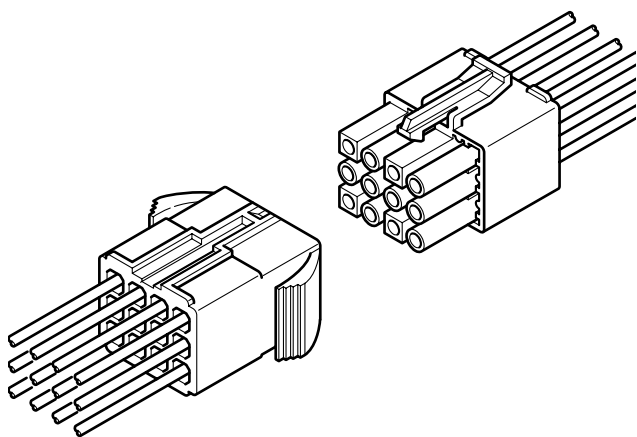
RoHS compliance

Note: Seal rubber plate, retainer, seal ring and seal ring holder are preassembled in tab housing assembly.



EL CONNECTOR

4.5mm pitch/Disconnectable Crimp style Wire-to-wire connectors



The contacts for the compact EL connector can be easily inserted into the connector housings. The plug housing and the receptacle housing can be smoothly mated even if they are mechanically distorted.

- **Easy insertion and secure installation of contacts**
- **A smooth connection even when pried during mating**
- **Durable arm lock mechanism**
- **Two contact styles**
- **Interchangeability with ML connector**

Specifications

- Current rating: 10A AC, DC max.
- Voltage rating: 300V AC, DC max.
- Temperature range: -25°C to +90°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/7m Ω max.
After environmental testing/10m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #26 to #16
0.13 to 1.25mm²
- Applicable panel thickness: 0.8 to 2.0mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Note: The current rating varies depending on the number of circuits and the wire size used in each connector. The table below lists the current rating as a function of the number of circuits and the wire size.

Current unit : A

Circuits	Wire size (AWG)					
	#16	#18	#20	#22	#24	#26
2	10	6	5	4	4	3
3	10	6	5	4	4	3
4	10	6	5	4	4	3
6	8	5	4	3	3	3
9	6	4	3	3	2	2
12	6	4	3	3	2	2
15	6	4	3	3	2	2

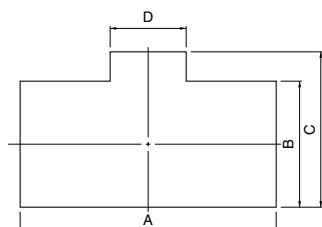
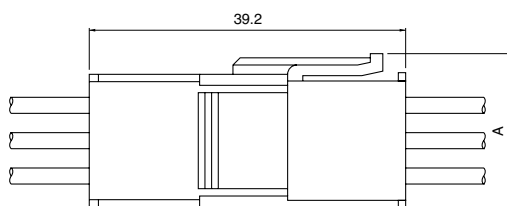
Standards

Recognized E60389

Certified LR20812

R75052

Panel layout and Assembly layout



Circuits	Dimensions A (mm)
2~4 (Single-line arrangement)	10.4
4 (Double-line arrangement)	15.0
6	14.9
9~15	19.4

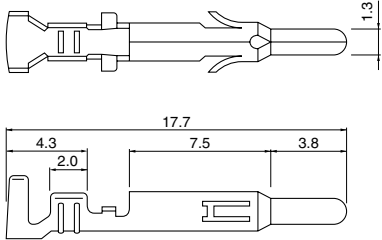
Circuits	Receptacle housing Model No.	Panel hole dimensions (mm)				Applicable panel thickness (mm)
		A	B	C	D	
2	ELR-02V	15.0	6.0	6.85	5.2	0.8~2.0
3	ELR-03V	19.7	6.0	6.85	5.2	
4	ELR-04V	24.2	6.0	6.85	5.2	
	ELR-04NV	15.6	10.6	11.6	5.2	
6	ELR-06V	19.7	10.2	11.1	5.2	
9	ELR-09V	19.7	14.8	15.7	5.2	
12	ELR-12V	24.2	14.8	15.7	5.2	
15	ELR-15V	28.7	14.8	15.7	5.2	

- Note:*
1. Punch holes in the panel according to the figures and table shown above. Burrs must be removed.
 2. The strength of the panel must be considered when punching two or more holes.
 3. The connector must be inserted from the same side as the hole is punched.

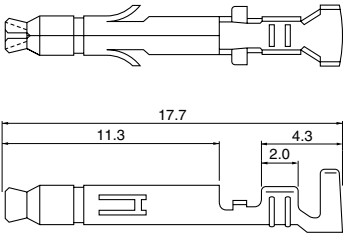
EL CONNECTOR

Contact

Pin contact



Socket contact



Model No.		Applicable wire		Insulation O.D. (mm)	Q'ty / reel
Pin contact	Socket contact	mm ²	AWG #		
SLM-01T-P1.3E	SLF-01T-P1.3E	0.13~0.5	26~20	1.3~2.7	6,000
SLM-41T-P1.3E	SLF-41T-P1.3E	0.5 ~1.25	20~16	1.9~3.4	4,000
*SLM-42T-P1.3E	*SLF-42T-P1.3E	0.3+0.3~ 0.5+0.5	22+22~ 20+20	1.7+1.7~ 2.0+2.0	

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

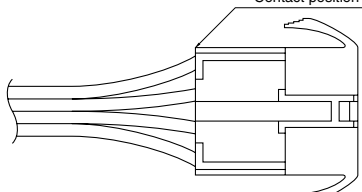
Note: 1. Contact denoted by * is used for two wires.
2. Contact JST for special products.
3. Contact JST for brass products.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SLM-01T-P1.3E	AP-K2N	MKS-L	MK/SLF/M-01-13E	APLMK SLF/M01-13E
SLF-01T-P1.3E		*MKS-SC	SC/SLF/M-01-13E	APLSC SLF/M01-13E
SLM-42T-P1.3E		MKS-L	MK/SLF/M-42-13E	APLMK SLF/M42-13E
SLF-42T-P1.3E		—	—	—
SLM-41T-P1.3E		MKS-L	MK/SLF/M-41-13E	APLMK SLF/M41-13E
SLF-41T-P1.3E		*MKS-SC	SC/SLF/M-41-13E	APLSC SLF/M41-13E

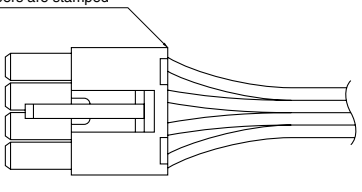
Note: *Strip-crimp applicator

Contact position location numbers

Contact position numbers are stamped

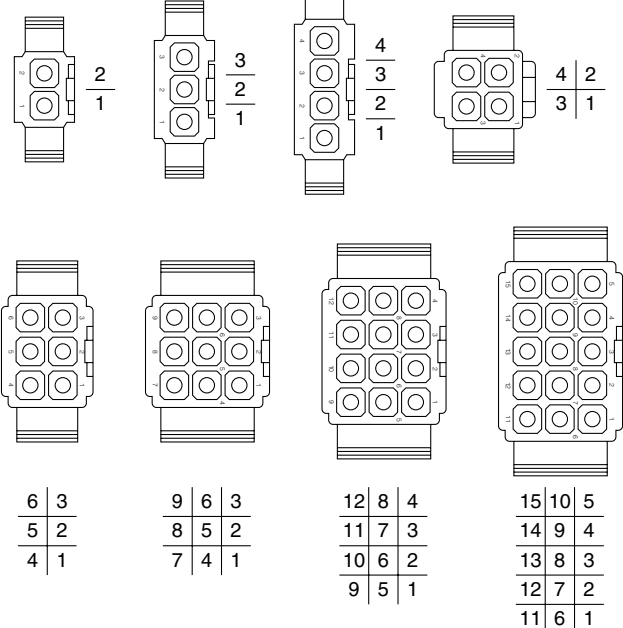


Receptacle housing



Plug housing

Receptacle housing



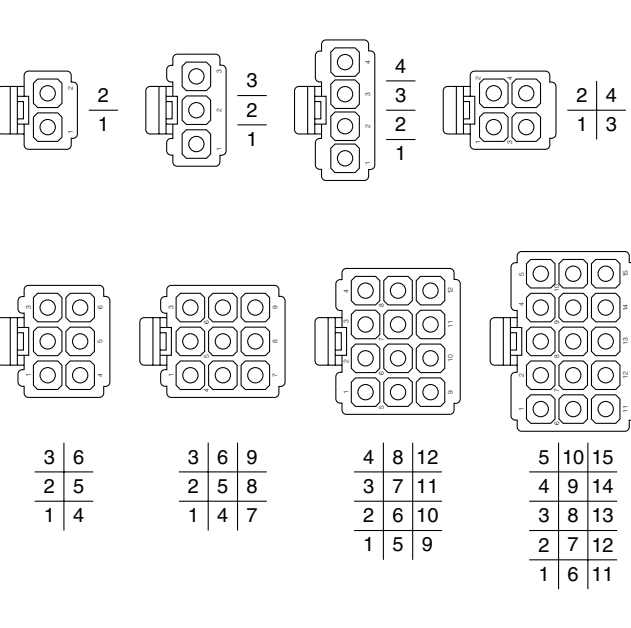
6 3
5 2
4 1

9 6 3
8 5 2
7 4 1

12 8 4
11 7 3
10 6 2
9 5 1

15 10 5
14 9 4
13 8 3
12 7 2
11 6 1

Plug housing



2 1

3 2 1

4 3 2 1

2 4
1 3

3 6
2 5
1 4

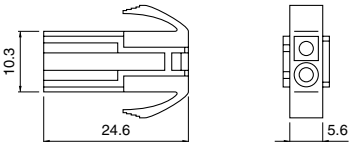
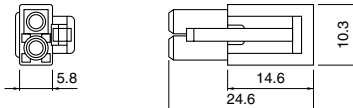

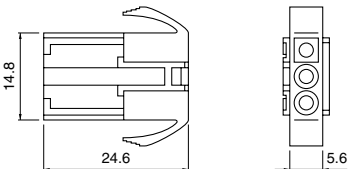
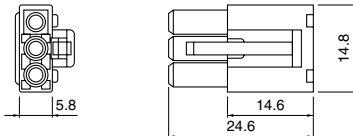
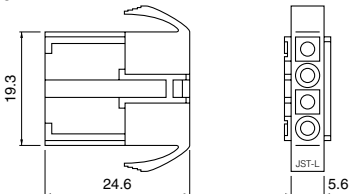
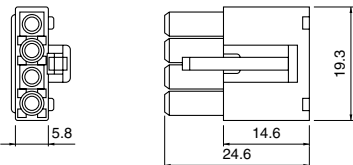
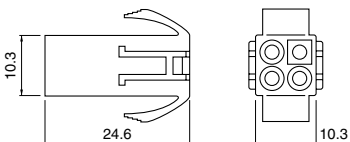
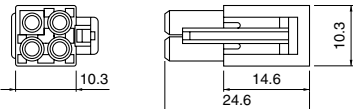

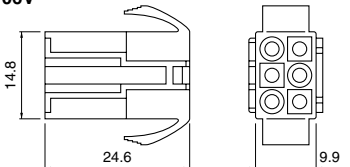
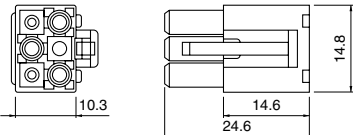
3 6 9
2 5 8
1 4 7

4 8 12
3 7 11
2 6 10
1 5 9

5 10 15
4 9 14
3 8 13
2 7 12
1 6 11

Housing

Material: PA 6, UL94V-0, white

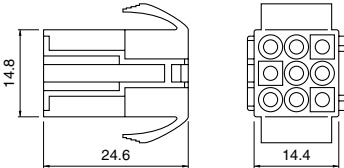
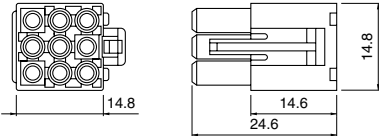
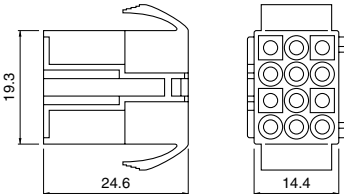
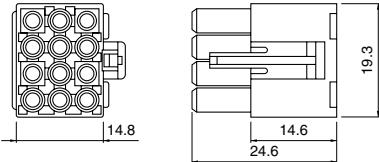
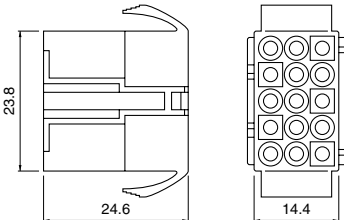
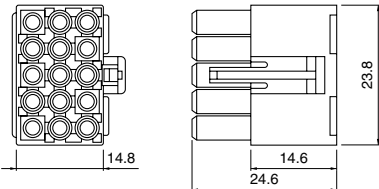
Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)		Plug housing(for socket contact)				
2	300V	10A	ELR-02V		Q'ty / bag	ELP-02V		Q'ty / bag	
				500				500	
			ELR-02VF		Q'ty / bag				
				500					
3	300V	10A	ELR-03V		Q'ty / bag	ELP-03V		Q'ty / bag	
				500		500			
4	300V	10A	ELR-04V		Q'ty / bag	ELP-04V		Q'ty / bag	
				500		500			
			ELR-04NV		Q'ty / bag		ELP-04NV		Q'ty / bag
				500					
			ELR-04NVF						
6	300V	8A	ELR-06V		Q'ty / bag	ELP-06V		Q'ty / bag	
				500		500			

RoHS compliance

EL CONNECTOR

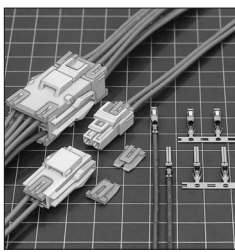
Housing

Material: PA 6, UL94V-0, white

Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)		Plug housing(for socket contact)	
9	300V	6A	ELR-09V 	Q'ty / bag	ELP-09V 	Q'ty / bag
				500		500
12	300V	6A	ELR-12V 	Q'ty / bag	ELP-12V 	Q'ty / bag
				500		500
15	300V	6A	ELR-15V 	Q'ty / bag	ELP-15V 	Q'ty / bag
				500		500

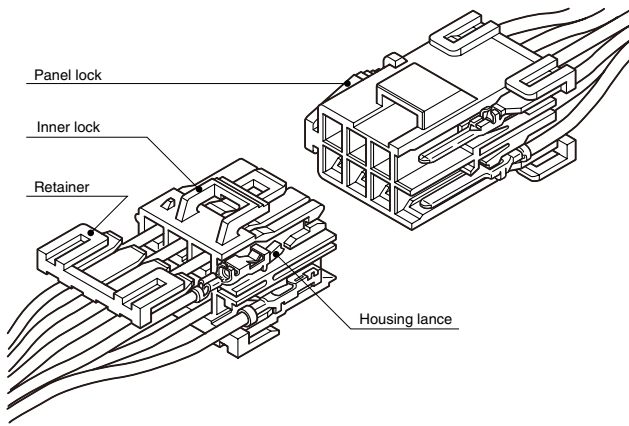
RoHS compliance

Note: 1. ELR-02VF and ELR-04NVF are exclusively for free hanging. The other circuits can be used either for panel mounted or free hanging.
See "Panel layout" for the panel hole dimensions.
2. Contact JST for special products.



YL CONNECTOR

4.5mm pitch/Disconnectable Crimp style Wire-to-wire connectors



The retainer features added protection against non-insertion or disconnection.

- **Housing lance**
- **Secondary retainers**
- **Inner-housing lock**
- **Panel lock construction**

Standards

- Recognized E60389
- Certified LR20812
- ▲ R9351052

Specifications

- Current rating: 10A AC, DC max. (7A when retainers are mounted)
- Voltage rating: 300V AC, DC max.
- Temperature range: -25°C to +90°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/7m Ω max.
After environmental testing/10m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #26 to #16
0.13 to 1.25mm²
- Applicable panel thickness: 0.7 to 2.0mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

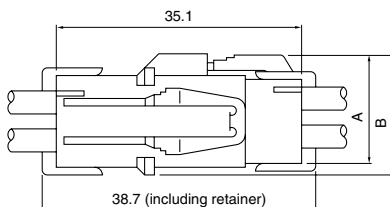
Note: The current rating varies depending on the number of circuits and the wire size used in each connector. The table below lists the current rating as a function of the number of circuits and the wire size.

Current unit: A

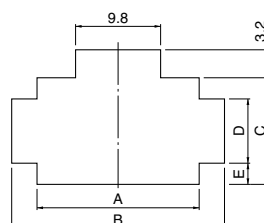
Circuits	Wire size (AWG)					
	#16	#18	#20	#22	#24	#26
1	10	7	5	4	3	2
2	10	7	5	4	3	2
3	9	6	4	4	3	2
4	9	6	4	4	3	2
6	8	5	3	3	2	2
8	7	4	3	3	2	2
9	6	4	3	3	2	2
12	6	3	2	2	2	2
15	5	3	2	2	2	1
16	5	3	2	2	2	1
21	5	3	2	2	2	1

Note: Secondary retainers cannot be used with AWG #16 wires.

Panel Layout and Assembly layout



Type	Circuits	Dimensions (mm)	
		A	B
Single row	2 · 3	9.5	10.8
2-row	4 · 6 · 8 · 12 · 16	15.3	16.6
3-row	9 · 12 · 15 · 21	20.5	21.8



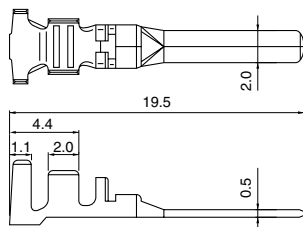
Circuits	Receptacle housing Model No.	Panel thickness (mm)	0.7 to 2.0			0.7 to 0.8		0.9 to 1.3		1.4 to 2.0	
			A	B	C	D ^{±0.1}	E ^{±0.1}	D ^{±0.1}	E ^{±0.1}	D ^{±0.1}	E ^{±0.1}
2	YLR-02V	10.7	16.8	7.1	4.4	1.35	5.0	1.05	5.6	0.75	
3	YLR-03V	15.3	21.3	7.1	4.4	1.35	5.0	1.05	5.6	0.75	
4	YLR-04V	10.7	16.8	12.9	7.1	2.9	7.7	2.6	8.3	2.3	
6	YLR-06V	15.3	21.3	12.9	7.1	2.9	7.7	2.6	8.3	2.3	
8	YLR-08V	19.8	25.8	12.9	7.1	2.9	7.7	2.6	8.3	2.3	
9	YLR-09V	15.3	21.3	18.2	7.1	5.55	7.7	5.25	8.3	4.95	
12	YLR-12V	19.8	25.8	18.2	7.1	5.55	7.7	5.25	8.3	4.95	
	YLR-12VA	28.9	34.8	12.9	7.1	2.9	7.7	2.6	8.3	2.3	
15	YLR-15V	24.4	30.3	18.2	7.1	5.55	7.7	5.25	8.3	4.95	
16	YLR-16V	37.9	43.8	12.9	7.1	2.9	7.7	2.6	8.3	2.3	
21	YLR-21V	33.5	39.3	18.2	7.1	5.55	7.7	5.25	8.3	4.95	

- Note:*
1. Punch holes in the panel according to the figures and table shown above. Burrs must be removed.
 2. The strength of the panel must be considered when punching two or more holes.
 3. The connector must be inserted from the same side as the hole is punched.

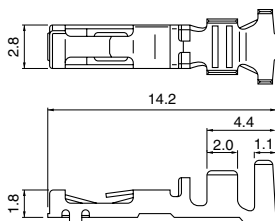
YL CONNECTOR

Contact

Pin contact



Socket contact



Model No.		Applicable wire		Insulation O.D. (mm)	Q'ty / reel
Pin contact	Socket contact	mm ²	AWG #		
SYM-01T-P0.5A	SYF-01T-P0.5A	0.13~0.5	26~20	1.3~2.5	4,000 (SYM-01T-P0.5A) 5,000
SYM-41T-P0.5A	SYF-41T-P0.5A	0.5 ~1.25	20~16	2.0~3.4	
		*0.3+0.3~ 0.5+0.5	*22+22~ 20+20	*1.5+1.5~ 2.0+2.0	

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Note: 1. Contact JST for special products.

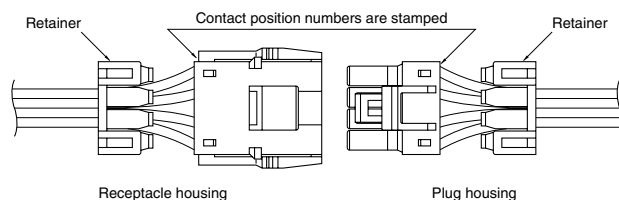
2. Retainers cannot be used with electric wire whose insulation O.D. exceeds 2.7mm and AWG #16.

3. *Marked products are not TÜV approved.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SYM-01T-P0.5A	AP-K2N	MKS-L	MK/SYF/M-01-05	APLMK SYF/M01-05
SYF-01T-P0.5A		*MKS-SC-YL	SC/SYF/M-01-05	APLSC SYF/M01-05
SYM-41T-P0.5A		MKS-L	MK/SYF/M-41-05	APLMK SYF/M41-05
SYF-41T-P0.5A		*MKS-SC-YL	SC/SYF/M-41-05	APLSC SYF/M41-05

Note: *Strip-crimp applicator

Contact position location numbers



Receptacle housing

	1		2 1		3 2 1		4 3 2 1
	6 5 4 3 2 1		8 7 6 5 4 3 2 1		9 8 7 6 5 4 3 2 1		12 11 10 9 8 7 6 5 4 3 2 1
	15 14 13 12 11 10 9 8 7 6 5 4 3 2 1		16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1		21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1		24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

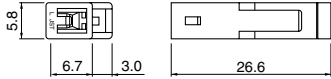
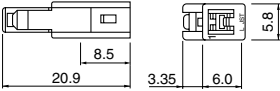
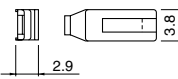
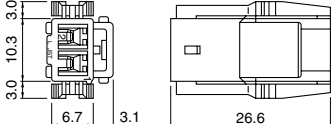
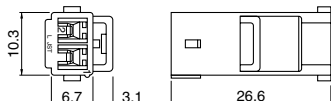
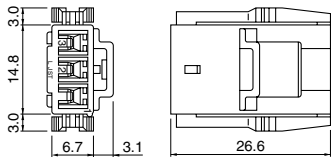
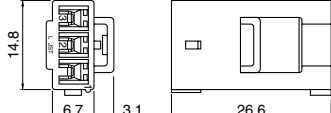
Plug housing

	1		2 1		3 2 1		4 3 2 1
	6 5 4 3 2 1		8 7 6 5 4 3 2 1		9 8 7 6 5 4 3 2 1		12 11 10 9 8 7 6 5 4 3 2 1
	15 14 13 12 11 10 9 8 7 6 5 4 3 2 1		16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1		21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1		24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

YL CONNECTOR

Housing

Material: Housing...PA 66, UL94V-0, white
Retainer...Glass-filled PA 66, UL94V-0, ivory

Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)		Plug housing(for socket contact)		Retainer	
1	300V	7A (10A)	YLR-01VF	Q'ty / bag	YLP-01V	Q'ty / bag	YLS-01V	Q'ty / bag
				500		500		1,000
2	300V	7A (10A)	YLR-02V	Q'ty / bag	YLP-02V	Q'ty / bag	YLS-02V	Q'ty / bag
				500				
3	300V	6A (9A)	YLR-02VF	Q'ty / bag	YLP-02V	Q'ty / bag	YLS-02V	Q'ty / bag
				500				
3	300V	6A (9A)	YLR-03V	Q'ty / bag	YLP-03V	Q'ty / bag	YLS-03V (commonly used for 3-circuit housing and 6-circuit housing)	Q'ty / bag
				500				
3	300V	6A (9A)	YLR-03VF	Q'ty / bag	YLP-03V	Q'ty / bag	YLS-03V (commonly used for 3-circuit housing and 6-circuit housing)	Q'ty / bag
				500				

RoHS compliance

Note: Current rating in parentheses is for use with AWG #16 wire. (Retainers are not mountable.)

YL CONNECTOR

Housing

Material: Housing...PA 66, UL94V-0, white
Retainer...Glass-filled PA 66, UL94V-0, ivory

Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)	Plug housing(for socket contact)	Retainer
4	300V	6A (9A)	YLR-04V 	YLP-04V 	YLS-02V
			YLR-04VF 		
6	300V	5A (8A)	YLR-06V 	YLP-06V 	YLS-03V (commonly used for 3-circuit housing and 6-circuit housing)
			YLR-06VF 		
8	300V	4A (7A)	YLR-08V 	YLP-08V 	YLS-08V
			YLR-08VF 		
9	300V	4A (6A)	YLR-09V 	YLP-09V 	—

RoHS compliance

Note: Current rating in parentheses is for use with AWG #16 wire. (Retainers are not mountable.)

Housing

Material: Housing...PA 66, UL94V-0, white
Retainer...Glass-filled PA 66, UL94V-0, ivory

Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)	Q'ty / bag	Plug housing(for socket contact)	Q'ty / bag	Retainer	Q'ty / bag
12	300V	3A (6A)	YLR-12VA 	200	YLP-12VA 	200	YLS-12V 	1,000
			YLR-12V 		YLP-12V 		—	
15	300V	3A (5A)	YLR-15V 	200	YLP-15V 	200	—	—
			YLR-16V 		YLP-16V 		YLS-16V 	
16	300V	3A (5A)	YLR-16V 	100	YLP-16V 	200	YLS-16V 	1,000

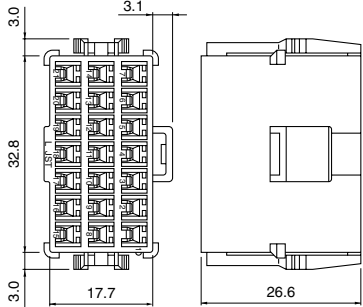
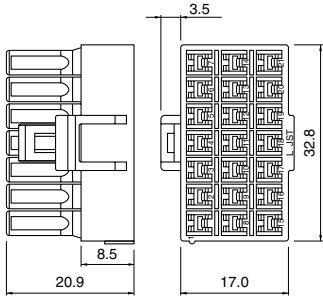
RoHS compliance

Note: Current rating in parentheses is for use with AWG #16 wire. (Retainers are not mountable.)

YL CONNECTOR

Housing

Material: Housing...PA 66, UL94V-0, white

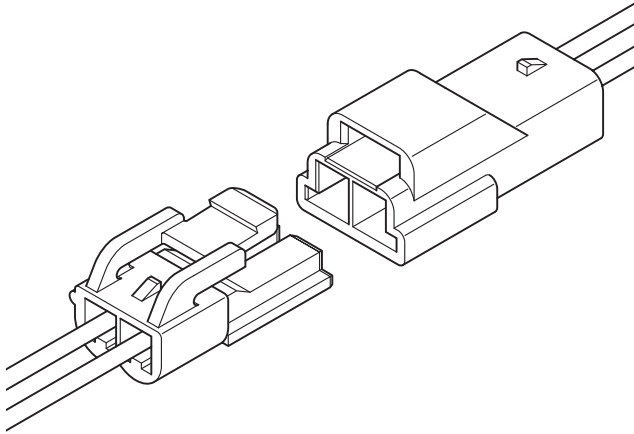
Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)		Plug housing(for socket contact)		Retainer	
21	300V	3A (5A)	YLR-21V		YLP-21V		—	—
				Q'ty / bag 100		Q'ty / bag 200		

RoHS compliance
Note: Current rating in parentheses is for use with AWG #16 wire. (Retainers are not mountable.)



YLN CONNECTOR

4.5mm pitch/Disconnectable Crimp style Wire-to-wire connectors



The YLN connector adds variations in shape to the existing color variations of the YL connector in order to improve identification of connectors. Moreover, this connector has a mechanism to prevent incomplete mating by utilizing the inertial force generated when the plug and receptacle are mated and therefore, ensures complete mating.

- Design to prevent incidental mating with the YL connector
- Inertial force mechanism
- Interchangeability
- Finger friendly design

Specifications

- Current rating: 10A max. AC, DC
(7A when retainers are mounted)
- Voltage rating: 300V max. AC, DC
- Temperature range: -25°C to +90°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 7m Ω max.
After environmental testing/ 10m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #26 to #16
0.13 to 1.25mm²

- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Note: The current rating differs depending on the number of circuits and the wire size used in each connector. The table below lists the current rating as a function of the number of circuits and the wire size.

Current unit : A

Circuits	Wire size (AWG)					
	#16	#18	#20	#22	#24	#26
2	10	7	5	4	3	2
3	9	6	4	4	3	2
4	9	6	4	4	3	2
6	8	5	3	3	2	2

Note: Secondary retainers cannot be used with AWG #16 wires.

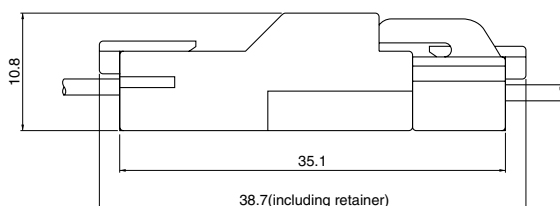
Standards

Recognized E60389

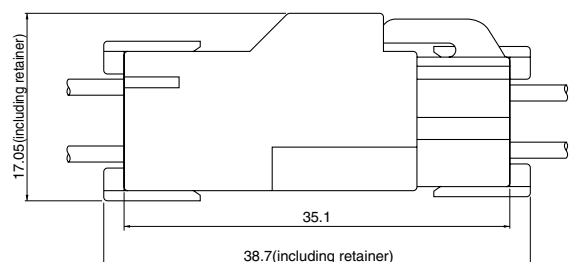
Certified LR20812

R9351052

(2, 3 circuits)



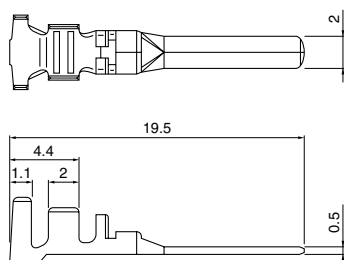
(4, 6 circuits)



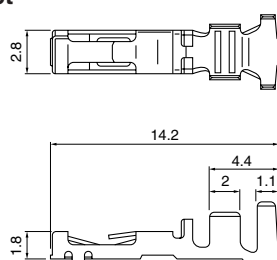
YLN CONNECTOR

Contact

Pin contact



Socket contact



Model No.		Applicable wire		Insulation O.D. (mm)	Q'ty / reel
Pin contact	Socket contact	mm ²	AWG #		
SYM-01T-P0.5A	SYF-01T-P0.5A	0.13~0.5	26~20	1.3~2.5	4,000 (SYM-01T-P0.5A) 5,000
SYM-41T-P0.5A	SYF-41T-P0.5A	0.5 ~ 1.25	20~16	2.0~3.4	
		0.3+0.3~ 0.5+0.5	22+22~ 20+20	1.5+1.5~ 2.0+2.0	

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Note: 1. Contact JST for special products.

2. Retainers cannot be used with electric wire whose insulation O.D. exceeds 2.7mm and AWG #16.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SYM-01T-P0.5A	AP-K2N	MKS-L	MK/SYF/M-01-05	APLMK SYF/M01-05
SYF-01T-P0.5A		*MKS-SC-YL	SC/SYF/M-01-05	APLSC SYF/M01-05
SYM-41T-P0.5A		MKS-L	MK/SYF/M-41-05	APLMK SYF/M41-05
SYF-41T-P0.5A		*MKS-SC-YL	SC/SYF/M-41-05	APLSC SYF/M41-05

Note: *Strip-crimp applicator

Housing

Material: Housing...PA 66, UL94V-0, natural (white)

Retainer...Glass-filled PA 66, UL94V-0, natural (ivory)

Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)		Plug housing(for socket contact)		Retainer	
2	300V	7A (10A)	YLN-02VF 	Q'ty / bag 250	YLN-02V 	Q'ty / bag 500	YLS-02V (Used with both housings with 2 and 4 circuits) 	Q'ty / bag 1,000
3	300V	6A (9A)	YLN-03VF 	Q'ty / bag 250	YLN-03V 	Q'ty / bag 500	YLS-03V (Used with both housings with 3 and 6 circuits) 	Q'ty / bag 1,000
4	300V	6A (9A)	YLN-04VF 	Q'ty / bag 250	YLN-04V 	Q'ty / bag 250	YLS-02V (Used with both housings with 2 and 4 circuits) 	Q'ty / bag 1,000
6	300V	5A (8A)	YLN-06VF 	Q'ty / bag 200	YLN-06V 	Q'ty / bag 200	YLS-03V (Used with both housings with 3 and 6 circuits) 	Q'ty / bag 1,000

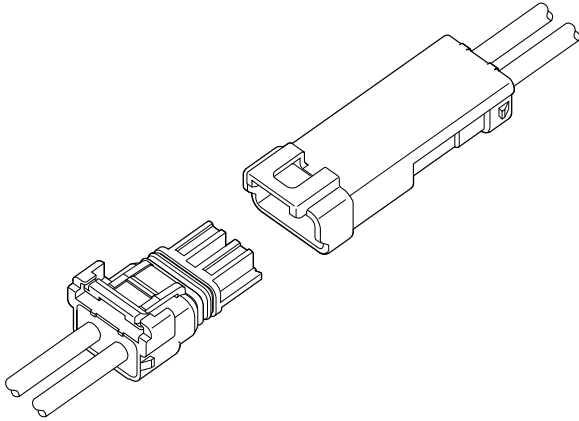
RoHS compliance

Note: Current rating in parentheses is for use with AWG #16 wire. (Retainers are not mountable.)



WPJ CONNECTOR

5.0mm pitch/Disconnectable Crimp style Wire-to-wire connectors



Compact, Water Resist and Durable.
This connector for electrical connection
can be used on both waterproof and non-
waterproof conditions, depending on the
usage.

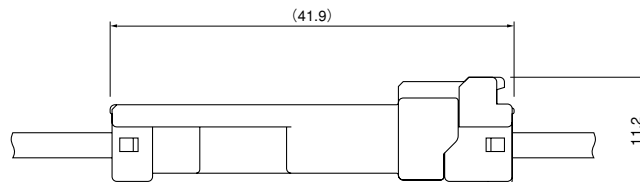
- **Waterproof performance [Grade 7 ingress protection of JIS C 0920 (IPX7 of IEC 60529)]**
- **Control key system**
- **Contacting part of contact is hardly deformed**
- **Inner-locking system**
- **Compact design**

Specifications

- Current rating: 7 A AC, DC (AWG#18)
- Voltage rating: 300 V AC, DC
- Temperature range: -25°C to +85°C
 (including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 10 mΩ max.
 After environmental tests/ 20 mΩ max.
- Insulation resistance: 1,000 MΩ min.
- Withstanding voltage: 1,500 VAC/minute
- Applicable wire: Conductor size/ AWG #22 to #18
 Insulation O.D./ 2.32 to 2.83 mm
 1.52 to 2.03 mm
- Waterproof grade: Grade 7 ingress protection of JIS C 0920
 (IPX7 of IEC 60529)
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

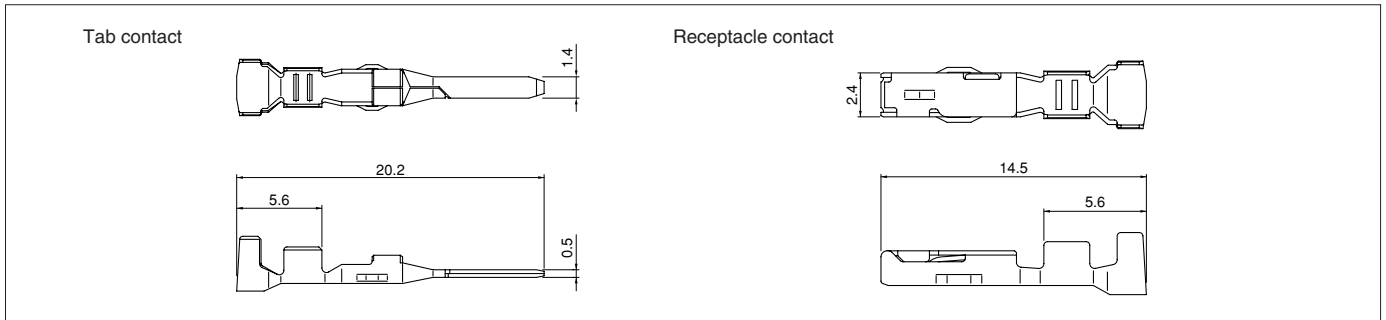
- Ⓜ Recognized E60389
- Ⓢ Certified LR20812
- ⚙ File No.R50073100



WPJ CONNECTOR

(Non-waterproof type)

Contact



Model No.		Applicable wire		Insulation O.D. (mm)	Q'ty / reel	
Tab contact	Receptacle contact	mm ²	AWG #		Tab contact	Receptacle contact
SWPJT-21T-P0.5	SWPJR-21T-M0.5	0.33~0.83	22~18	2.32~2.83	6,000	4,500
SWPJT-21T-P0.5A	SWPJR-21T-M0.5A			1.52~2.03	9,000	4,500

Material and Finish

Copper alloy, tin-plated (reflow treatment)

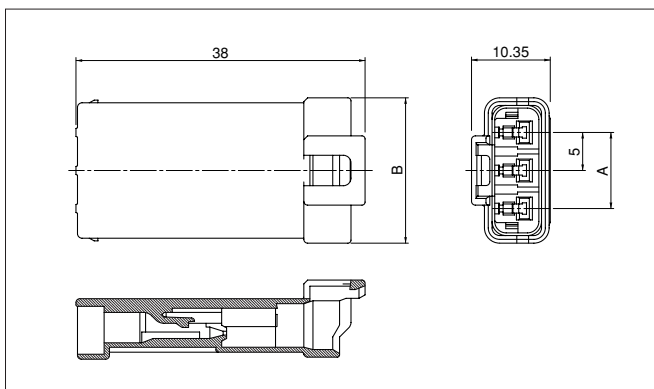
RoHS compliance

Non-waterproof type

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SWPJT-21T-P0.5	AP-K2N	MKS-L	MK/SWPJR/T-21-05	APLMK SWPJR/T21-05
		—	—	—
SWPJR-21T-M0.5	AP-K2N	MKS-L	MK/SWPJR/T-21-05	APLMK SWPJR/T21-05
		—	—	—

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SWPJT-21T-P0.5A	AP-K2N	MKS-L	MK/SWPJR/T-21-05A	APLMK SWPJR/T21-05A
		—	—	—
SWPJR-21T-M0.5A	AP-K2N	MKS-L	MK/SWPJR/T-21-05A	APLMK SWPJR/T21-05A
		—	—	—

Tab housing (for tab contact)



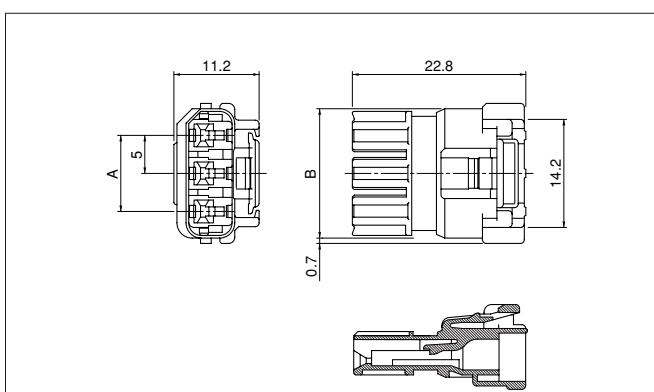
Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	WPJT-02V-1-S	—	14.2	500
3	WPJT-03V-1-S	10	19.2	500

Material

Glass-filled PBT, UL94V-0, natural (white)

RoHS compliance

Receptacle housing (for receptacle contact)



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	WPJR-02V-1-S	—	12.1	1,000
3	WPJR-03V-1-S	10	17.1	1,000

Material

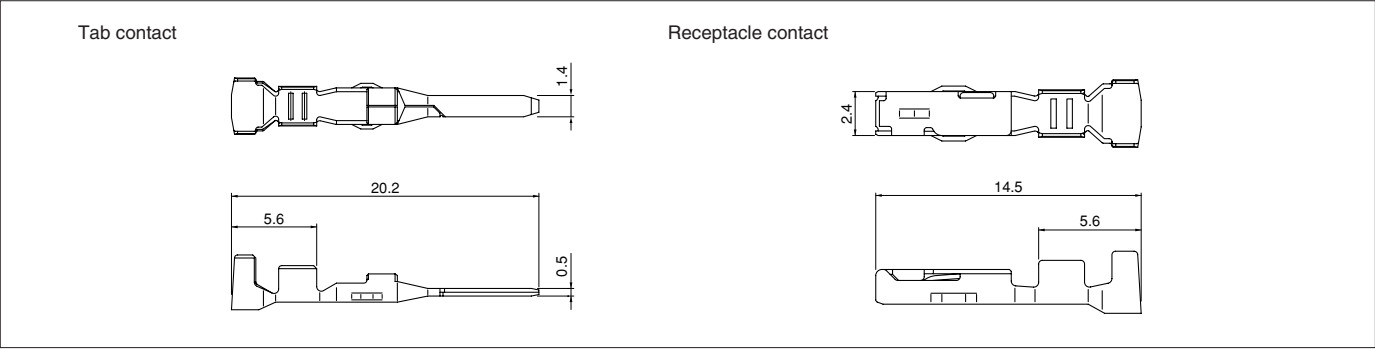
Glass-filled PBT, UL94V-0, natural (white)

RoHS compliance

WPJ CONNECTOR

(Waterproof type)

Contact



Model No.		Applicable wire		Insulation O.D. (mm)	Q'ty / reel	
Tab contact	Receptacle contact	mm ²	AWG #		Tab contact	Receptacle contact
SWPJT-21T-P0.5	SWPJR-21T-M0.5	0.33~0.83	22~18	2.32~2.83	6,000	4,500

Material and Finish

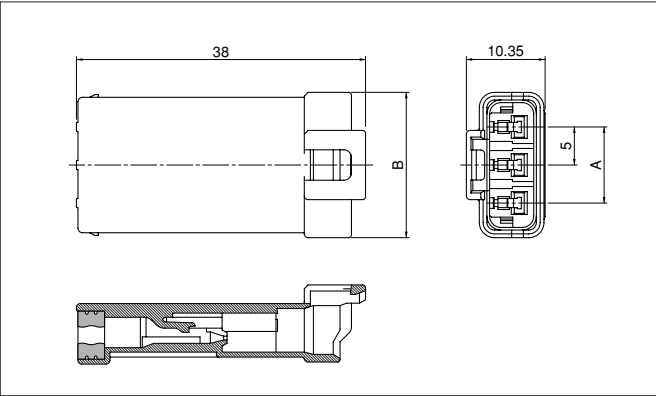
Copper alloy, tin-plated (reflow treatment)

RoHS compliance

Waterproof type

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SWPJT-21T-P0.5	AP-K2N	MKS-L	MK/SWPJR/T-21-05	APLMK SWPJR/T21-05
		—	—	—
SWPJR-21T-M0.5	AP-K2N	MKS-L	MK/SWPJR/T-21-05	APLMK SWPJR/T21-05
		—	—	—

Tab housing assembly (for tab contact)



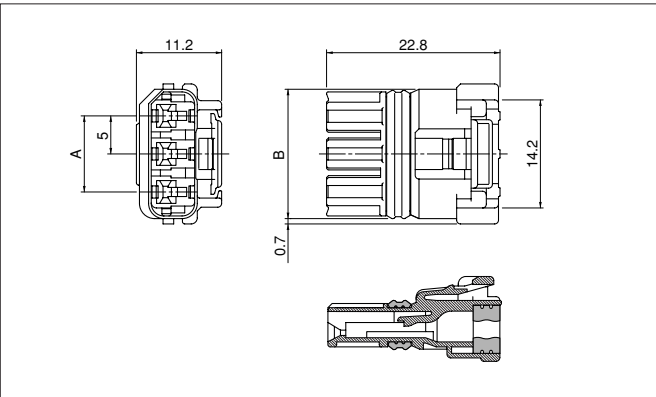
Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	02T-WPJV-1-SM	—	14.2	675
3	03T-WPJV-1-SM	10	19.2	495

Material

Tab housing: Glass-filled PBT, UL94V-0, natural (white)
Seal rubber plate: Silicon, green

RoHS compliance

Receptacle housing assembly (for receptacle contact)

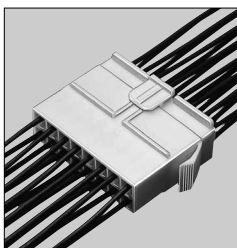


Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	02R-WPJV-1-SMM	—	12.1	720
3	03R-WPJV-1-SMM	10	17.1	576

Material

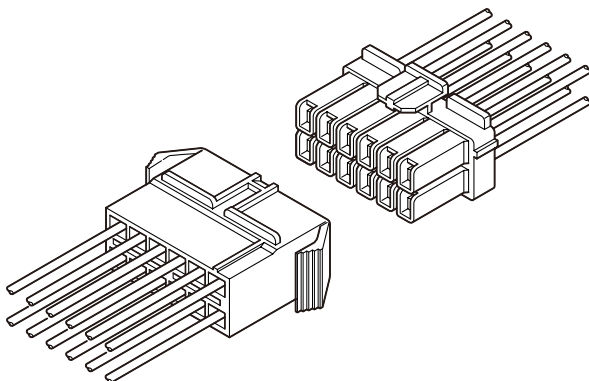
Receptacle housing: Glass-filled PBT, UL94V-0, natural (white)
Seal ring: Silicon, green
Seal rubber plate: Silicon, green

RoHS compliance



XL CONNECTOR

5.0mm pitch/Disconnectable Crimp style Wire-to-wire connectors



XL connectors are reliable wire-to-wire connectors, used for such electrical and electronic equipment as home appliances, vending machines, and office machines.

- **Reliable housing construction**
- **Easy contact insertion**
- **Box-shaped contact**
- **Two kinds of connections**

Specifications

- Current rating: 10A AC, DC max.
- Voltage rating: 300V AC, DC max.
- Temperature range: -25°C to +90°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/7m Ω max.
After environmental testing/10m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #26 to #16
0.13 to 1.25mm²
- Applicable panel thickness: 0.7 to 2.4mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Note: The current rating varies depending on the number of circuits and the wire size used in each connector.

The table below lists the current rating as a function of the number of circuits and wire size.

Current unit: A

Circuits	Wire size (AWG)					
	#16	#18	#20	#22	#24	#26
2	10	6	5	4	3	3
4	9	5	4	3	3	2
8	6	4	3	3	2	2
12	6	4	3	3	2	2
16	5	3	2	2	1	1

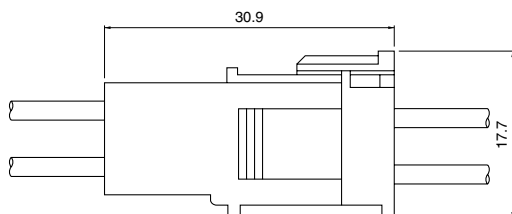
Standards

Recognized E60389

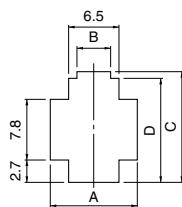
Certified LR20812

R75052

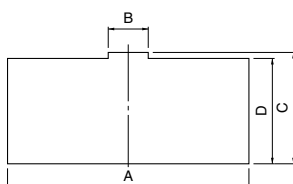
Panel layout and Assembly layout



Shape I



Shape II



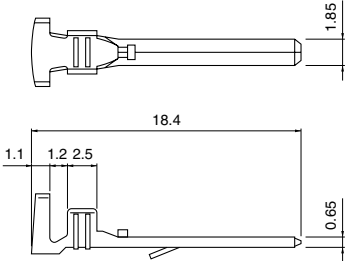
Circuits	Receptacle housing	Panel hole shape	Panel hole dimensions (mm)				Applicable panel thickness (mm)
			A	B	C	D	
2	XLR-02V	I	11.5	4.4	13.95	13.2	0.7~2.4
4	XLR-04V	II	16.5	5.2	13.95	13.2	
8	XLR-08V	II	26.5	5.2	13.95	13.2	
12	XLR-12V	II	36.5	5.2	13.95	13.2	
16	XLR-16V	II	46.5	5.2	13.95	13.2	

- Note:*
1. Punch holes in the panel according to the figures and table shown above. Burrs must be removed.
 2. The strength of the panel must be considered when punching two or more holes.
 3. The connector must be inserted from the same side as the hole is punched.

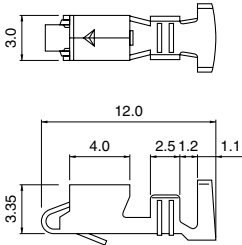
XL CONNECTOR

Contact

Pin contact



Socket contact



Model No.		Applicable wire		Insulation O.D. (mm)	Q'ty / reel
Pin contact	Socket contact	mm ²	AWG #		
SYM-01T-P0.7	SXF-01T-P0.7	0.13~0.5	26~20	1.3~2.7	Pin contact SYM-01T-P0.7 : 6,000 SYM-41T-P0.7 : 4,000
SYM-41T-P0.7	SXF-41T-P0.7	0.5 ~1.25 0.3+0.3~ 0.5+0.5	20~16 22+22~ 20+20	1.9~3.1 1.7+1.7~ 2.0+2.0	
					Socket contact: : 3,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

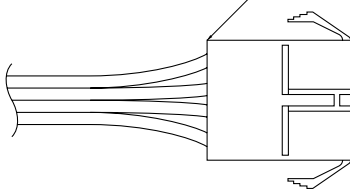
RoHS compliance

Note: 1. Contact JST for special products.
2. Contact JST for brass products.

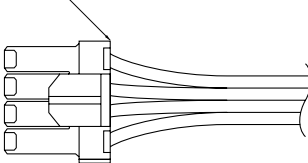
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SYM-01T-P0.7	AP-K2N	MKS-L	MK/SYM-01-07	APLMK SYM01-07
		—	—	—
SXF-01T-P0.7		MKS-L	MK/SXF-01-07	APLMK SXF01-07
		—	—	—
SYM-41T-P0.7		MKS-L	MK/SYM-41-07	APLMK SYM41-07
		—	—	—
SXF-41T-P0.7		MKS-L	MK/SXF-41-07	APLMK SXF41-07
		—	—	—

Contact position location numbers

Contact position numbers are stamped

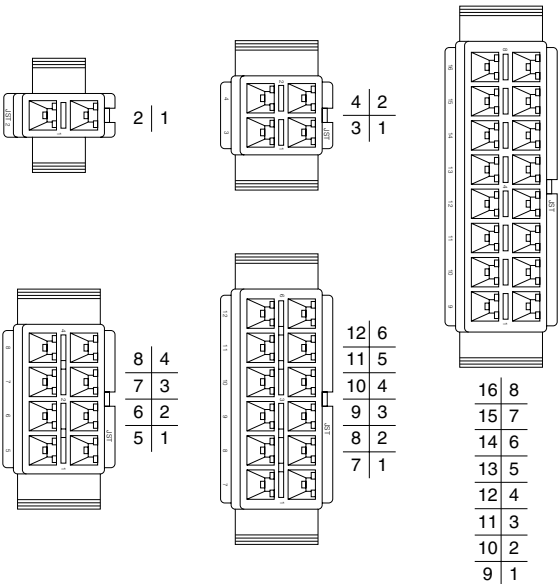


Receptacle housing

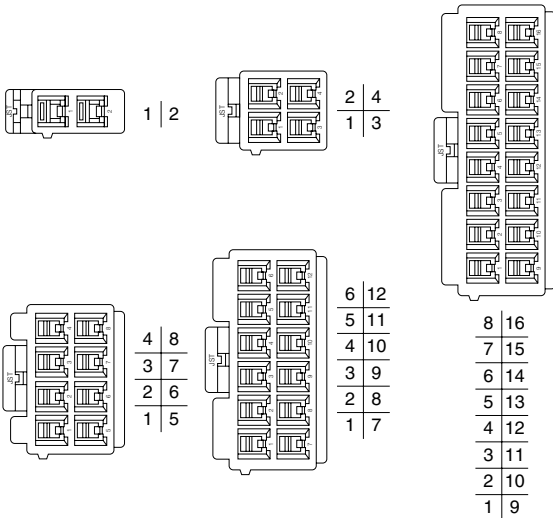


Plug housing

Receptacle housing



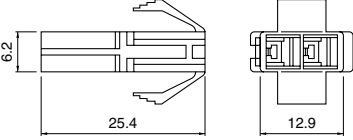
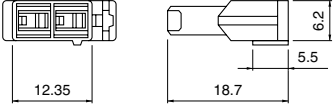
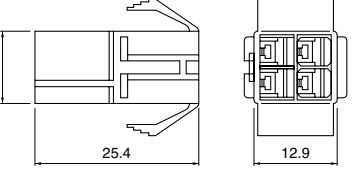
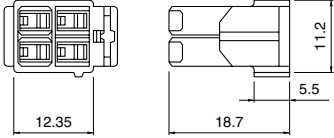
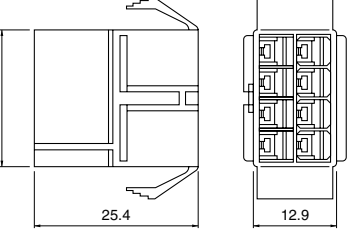
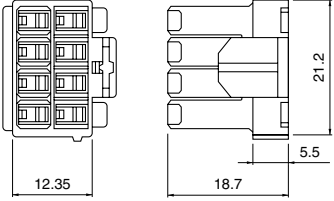
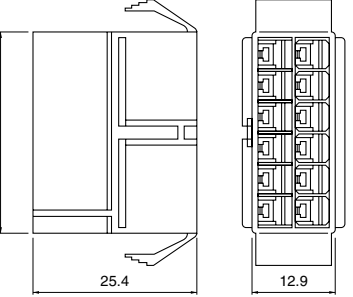
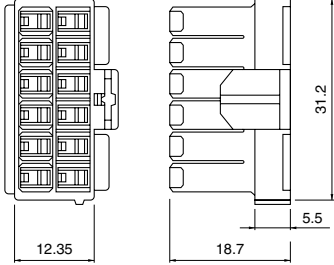
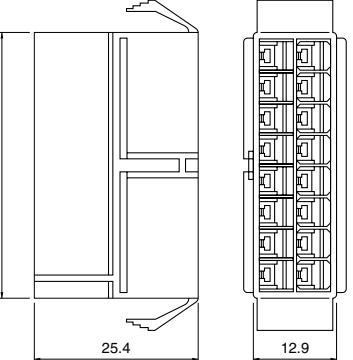
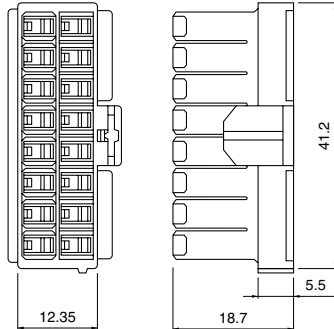
Plug housing



XL CONNECTOR

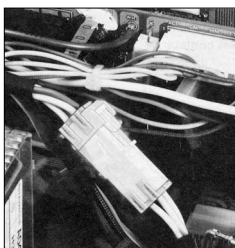
Housing

Material: PA 66, UL94V-0, white

Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)		Plug housing(for socket contact)	
2	300V	10A	XLR-02V 	Q'ty / bag	XLP-02V 	Q'ty / bag
				500		500
4	300V	9A	XLR-04V 	Q'ty / bag	XLP-04V 	Q'ty / bag
				500		500
8	300V	6A	XLR-08V 	Q'ty / bag	XLP-08V 	Q'ty / bag
				500		500
12	300V	6A	XLR-12V 	Q'ty / bag	XLP-12V 	Q'ty / bag
				200		200
16	300V	5A	XLR-16V 	Q'ty / bag	XLP-16V 	Q'ty / bag
				100		200

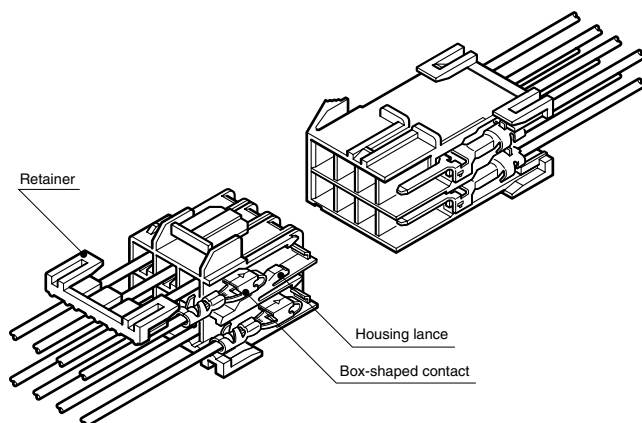
RoHS compliance

Note: 1. XL connectors with any number of circuits can be used either panel mounted or free hanging. See "Panel layout" for the hole dimensions.
2. Contact JST for special products.



ZL CONNECTOR

5.0mm pitch/Disconnectable Crimp style Wire-to-wire connectors



ZL connectors are reliable, smoothly mating wire-to-wire connectors.

- **Housing lances**
- **Retainer**
- **Box-shaped contacts**
- **Mountable on a variety of panels**

Specifications

- Current rating: 10A AC, DC max.
- Voltage rating: 300V AC, DC max.
- Temperature range: -25°C to +90°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/7m Ω max.
After environmental testing/10m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #26 to #16
0.13 to 1.25mm²
- Applicable panel thickness: 0.7 to 2.4mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

*Note: The current rating varies depending on the number of circuits and the wire size used in each connector.
The table below lists the current rating as a function of the number of circuits and wire size.*

Current unit: A

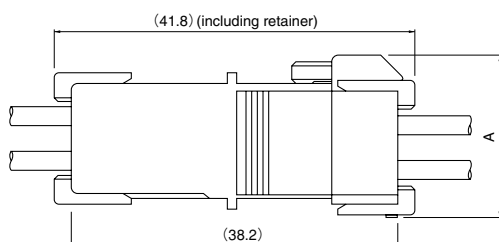
Circuits	Wire size (AWG)					
	#16	#18	#20	#22	#24	#26
2	10	6	5	4	3	2
4	9	5	4	3	3	2
6	8	4	3	3	2	2
8	6	4	3	3	2	2
12	6	4	3	3	2	2
16	5	3	2	2	1	1

Standards

Ⓜ Recognized E60389

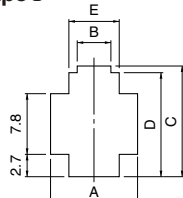
Ⓢ Certified LR20812

Panel layout and Assembly layout

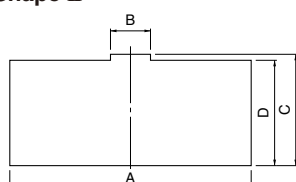


Circuits	Dimensions A (mm)
2 • 4	18.2
6 • 8 • 12 • 16	17.5

Shape I



Shape II



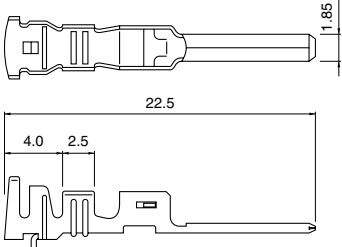
Circuits	Receptacle housing	Panel hole shape	Panel hole dimensions (mm) General tolerance ±0.13					Applicable panel thickness (mm)
			A	B	C	D	E	
2	ZLR-02V	I	11.5	4.4	13.95	13.2	6.5	0.7~2.4
4	ZLR-04V	I	16.5	5.2	13.95	13.2	11.6	
6	ZLR-06V	II	21.5	5.2	13.95	13.2	—	
8	ZLR-08V	II	26.5	5.2	13.95	13.2	—	
12	ZLR-12V	II	36.5	5.2	13.95	13.2	—	
16	ZLR-16V	II	46.5	5.2	13.95	13.2	—	

- Note:*
1. Punch holes in the panel according to the figures and table shown above. Burrs must be removed.
 2. The strength of the panel must be considered when punching two or more holes.
 3. The connector must be inserted from the same side as the hole is punched.

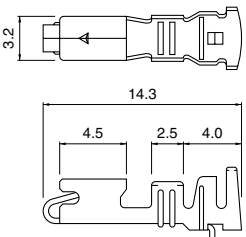
ZL CONNECTOR

Contact

Pin contact



Socket contact



Model No.		Applicable wire		Insulation O.D. (mm)	Q'ty / reel
Pin contact	Socket contact	mm ²	AWG #		
SZM-01T-P0.7	SZF-01T-P0.7	0.13~0.5	26~20	1.3~2.7	3,000
SZM-41T-P0.7	SZF-41T-P0.7	0.75~1.25	18~16	1.9~3.1	
		0.3+0.3~ 0.5+0.5	22+22~ 20+20	1.7+1.7~ 2.0+2.0	

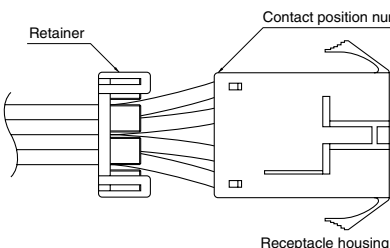
Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance
Note: 1. Contact JST for special products.
2. Contact JST for brass products.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SZM-01T-P0.7	AP-K2N	MKS-L	MK/SZF/M-01-07	APLMK SZF/M01-07
SZF-01T-P0.7		—	—	—
SZM-41T-P0.7		MKS-L	MK/SZF/M-41-07	APLMK SZF/M41-07
SZF-41T-P0.7		—	—	—

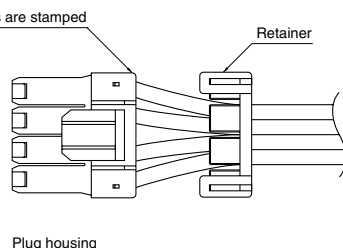
Contact position location numbers



Retainer

Contact position numbers are stamped

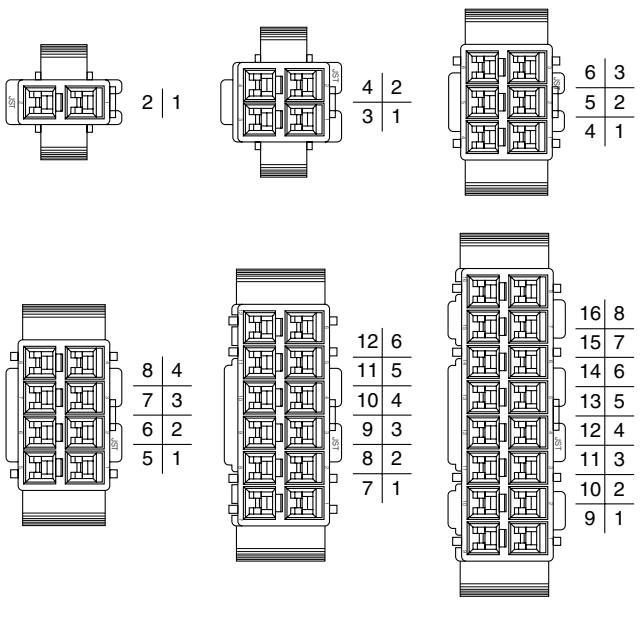
Receptacle housing



Retainer

Plug housing

Receptacle housing



2 | 1

4 | 2
3 | 1

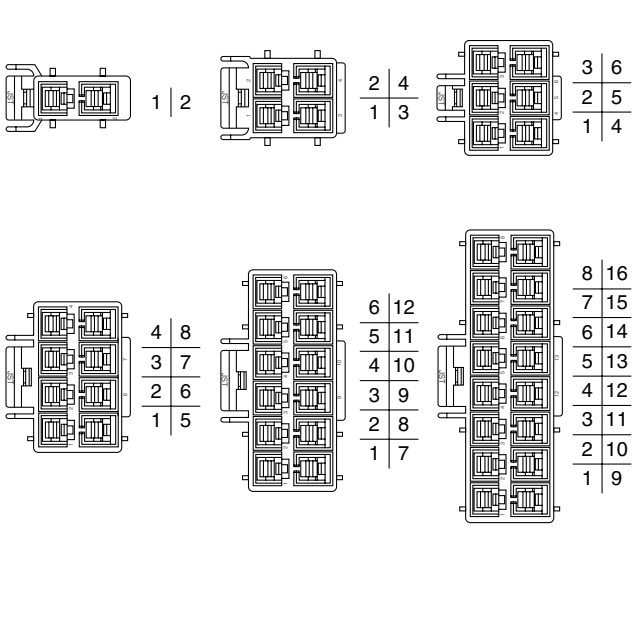
6 | 3
5 | 2
4 | 1

8 | 4
7 | 3
6 | 2
5 | 1

12 | 6
11 | 5
10 | 4
9 | 3
8 | 2
7 | 1

16 | 8
15 | 7
14 | 6
13 | 5
12 | 4
11 | 3
10 | 2
9 | 1

Plug housing



1 | 2

2 | 4
1 | 3

3 | 6
2 | 5
1 | 4

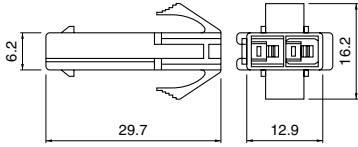
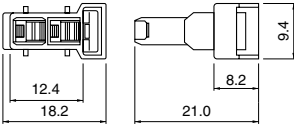
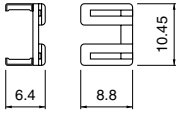
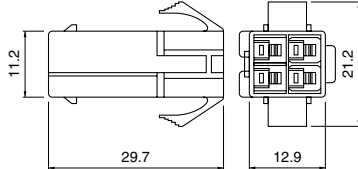
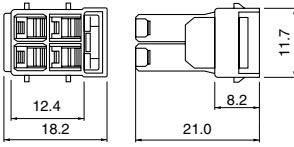
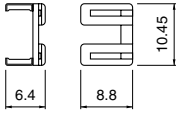
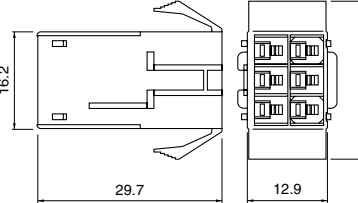
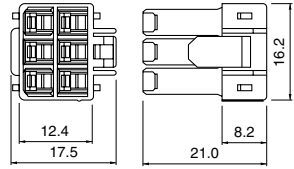
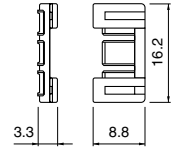
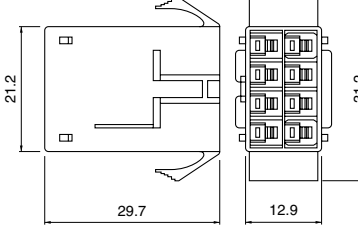
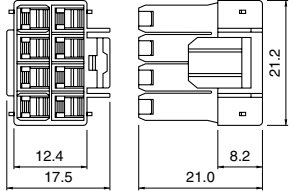
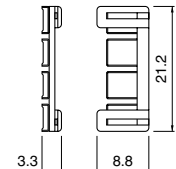
4 | 8
3 | 7
2 | 6
1 | 5

6 | 12
5 | 11
4 | 10
3 | 9
2 | 8
1 | 7

8 | 16
7 | 15
6 | 14
5 | 13
4 | 12
3 | 11
2 | 10
1 | 9

Contact

Material: Housing...PA 6, UL94V-0, white
Retainer...Glass-filled PA 66, UL94V-0, ivory

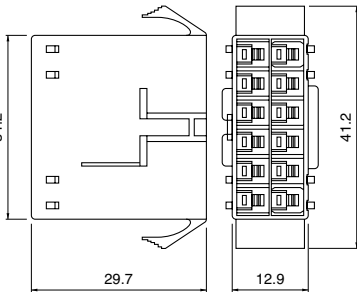
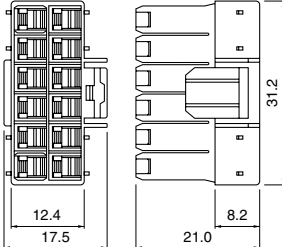
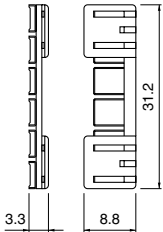
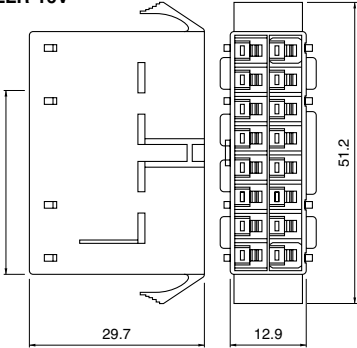
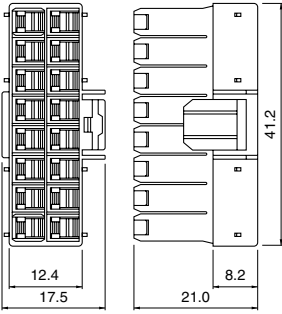
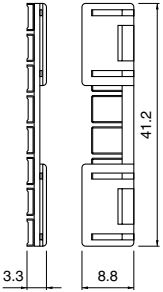
Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)		Plug housing(for socket contact)		Retainer	
2	300V	10A	ZLR-02V 	Q'ty / bag 500	ZLP-02V 	Q'ty / bag 500	ZLS-02V (Used with both housings with 2 and 4 circuits) 	Q'ty / bag 1,000
4	300V	9A	ZLR-04V 	Q'ty / bag 500	ZLP-04V 	Q'ty / bag 500	ZLS-04V 	Q'ty / bag 1,000
6	300V	8A	ZLR-06V 	Q'ty / bag 500	ZLP-06V 	Q'ty / bag 500	ZLS-06V 	Q'ty / bag 1,000
8	300V	6A	ZLR-08V 	Q'ty / bag 500	ZLP-08V 	Q'ty / bag 500	ZLS-08V 	Q'ty / bag 1,000

RoHS compliance

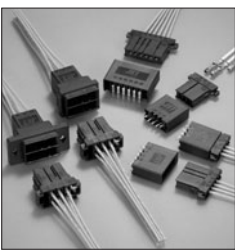
ZL CONNECTOR

Contact

Material: Housing...PA 6, UL94V-0, white
Retainer...Glass-filled PA 66, UL94V-0, ivory

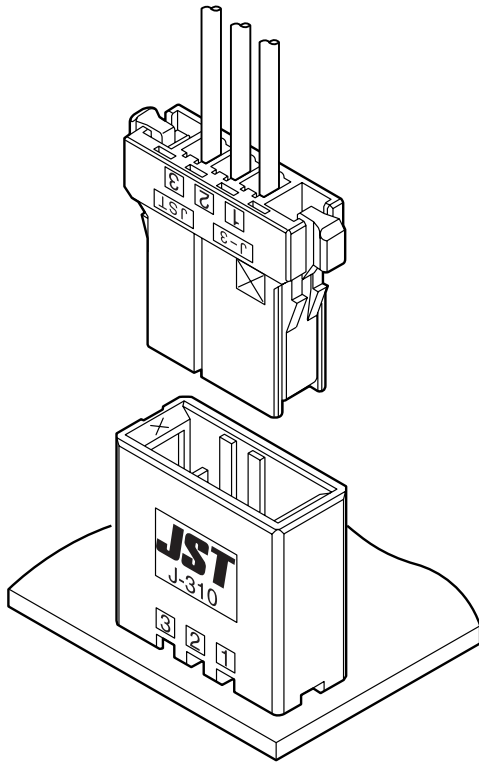
Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)		Plug housing(for socket contact)		Retainer	
12	300V	6A	ZLR-12V 	Q'ty / bag 200	ZLP-12V 	Q'ty / bag 200	ZLS-12V 	Q'ty / bag 1,000
16	300V	5A	ZLR-16V 	Q'ty / bag 200	ZLP-16V 	Q'ty / bag 200	ZLS-16V 	Q'ty / bag 1,000

RoHS compliance
Note: 1. ZL connectors with any number of circuits can be used either panel mounted or free hanging. See "Panel layout" for the panel dimensions.
2. Contact JST for special products.



JFA CONNECTOR J300 SERIES

3.81, 5.08mm pitch/Disconnectable Crimp style connectors(Wire-to-board/Wire-to-wire)



Connectors for signal circuit or power supply circuit, applicable to the factory automation, heavy electric machinery, and other industrial equipment in general. In spite of the various kinds of housings available, their contacts are designed to be common. The applicable tooling can be standardized.

- Double-spring construction
- Housing lances
- Secure locking method
- Recognition mark

Specifications

- Current rating: 15A AC, DC (Single circuit/AWG #14)
- Voltage rating: 310, 340 series [3.81mm pitch] 250V AC, DC
320, 350 series, 360T [5.08mm pitch] 600V AC, DC
- Temperature range: -55°C to +105°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/5mΩ max.
After environmental testing/10mΩ max.
- Insulation resistance: 1,000MΩ min.
- Withstanding voltage:
310, 340 series [3.81mm pitch] 1,500V AC/minute
320, 350 series, 360T [5.08mm pitch] 2,200V AC/minute
- Applicable wire: AWG #28 to #14 (0.08 to 2.0mm²)
- Applicable PC board thickness: 1.6 to 2.4mm

*Contact JST for details.

*Compliant with RoHS.

Current rating

Unit: A

Circuits	Wire size (AWG)							
	#14	#16	#18	#20	#22	#24	#26	#28
1	15.0	14.0	11.5	9.5	8.0	6.5	5.75	4.75
2	13.5	13.5	11.25	9.25	7.5	6.25	5.5	4.5
3	12.25	12.25	10.5	8.5	7.0	5.75	5.0	4.1
4	11.25	11.25	10.0	8.0	6.5	5.5	4.75	4.0
5	10.5	10.5	9.5	7.5	6.25	5.25	4.5	4.0
6	9.75	9.75	9.0	7.0	6.0	5.0	4.25	3.75
8	9.0	9.0	8.25	6.5	5.5	4.5	3.75	3.25
9	8.5	8.5	8.0	6.25	5.25	4.5	3.75	3.25
10	8.5	8.5	8.0	6.25	5.25	4.5	3.75	3.25
12	8.25	8.25	7.75	6.0	5.0	4.0	3.5	3.0
16	8.0	8.0	7.5	6.0	4.75	4.0	3.5	3.0
20	8.0	8.0	7.25	6.0	4.5	4.0	3.5	2.75

Standards

Recognized E60389

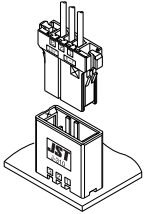
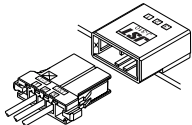
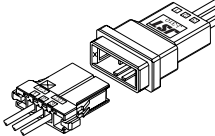
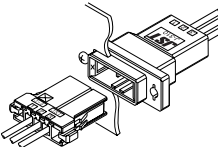
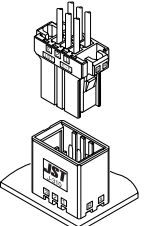
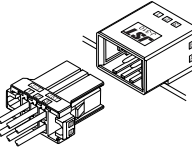
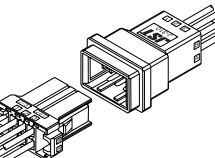
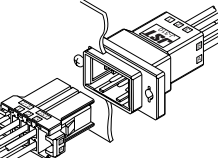
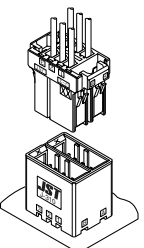
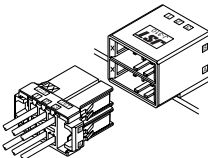
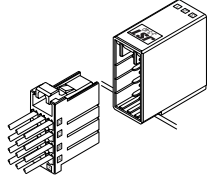
Certified LR20812

R50133261

JFA CONNECTOR/J300 SERIES

List of J300 series products

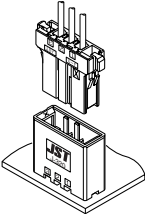
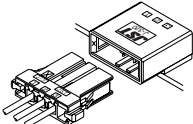
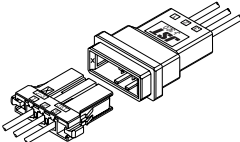
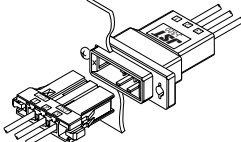
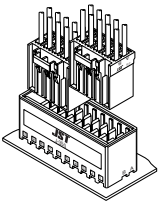
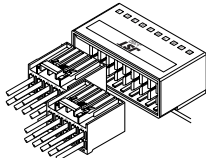
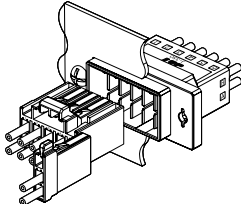
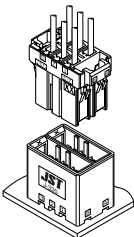
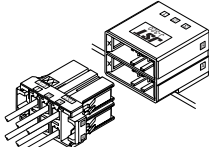
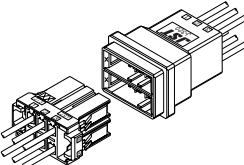
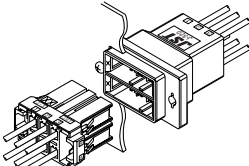
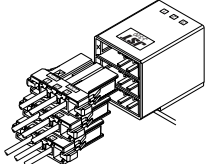
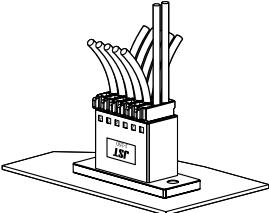
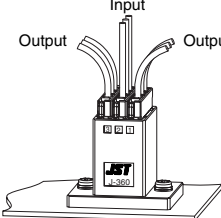
3.81mm pitch / Voltage rating 250V AC, DC

Type	Wire-to-board		Wire-to-wire	
	Top entry type	Side entry type	Free hanging type	Panel mounting type
J310S Single-row type				
Circuits	3, 4, 5, 6, 8, 10	3, 4, 5, 6, 8, 10	3, 5, 8, 10	3, 5, 8, 10
J310D Double-row type [line pitch 5.08mm]				
Circuits	6, 8, 10, 12, 16, 20	6, 8, 10, 12, 16, 20	6, 8, 10, 12, 16, 20	6, 8, 10, 12, 16, 20
J310M Double-row module type [line pitch 7.62mm]				
Circuits	6	6		
J340F Four-row type [line pitch 5.08mm]				
Circuits		12, 20		
—				
Circuits				

JFA CONNECTOR/J300 SERIES

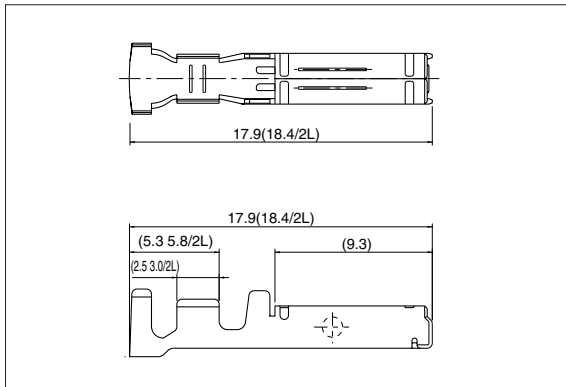
List of J300 series products

5.08mm pitch / Voltage rating 600V AC, DC

Wire-to-board		Wire-to-wire		Type
Top entry type	Side entry type	Free hanging type	Panel mounting type	
				J320S Single-row type
2, 3, 4, 5, 6	2, 3, 4, 5, 6	1, 2, 3, 4	1, 2, 3, 4	Circuits
				J350D Double-row type [line pitch 5.08mm]
12, 20	12, 20		12	Circuits
				J320M Double-row module type [line pitch 7.62mm]
6,10,12	6, 8,10,12	6,12	6,12, 20	Circuits
				J320T Triple-row module type [line pitch 7.62mm]
	9			Circuits
Double-row common type (J350DC)		Triple-row common type (J360T)		Type
	(line pitch 5.08mm)		(line pitch 6.5mm)	
12		9, 18, 24		Circuits

JFA CONNECTOR/J300 SERIES

Receptacle contact



Model No.		Applicable wire			Insulation O.D. (mm)	Q'ty	
Strip contact	Loose piece	Nominal	mm ²	AWG#		reel	Box(Loose piece)
SF3F-002 (*) -P2.0	BF3F-002 (*) -P2.0	S	0.08~0.20	28~24	0.8~1.4	3,700	1,000
SF3F-01 (*) -P2.0	BF3F-01 (*) -P2.0	M	0.20~0.50	24~20	1.2~2.6	3,700	1,000
SF3F-41 (*) -P2.0	LF3F-41 (*) -P2.0	L	0.50~1.25	20~16	1.8~2.8	3,200	1,000
SF3F-71 () -P2.0	*BF3F-71 (*) -P2.0	2L	1.25~2.0	16~14	2.4~3.4	3,200	1,000

Material and Finish

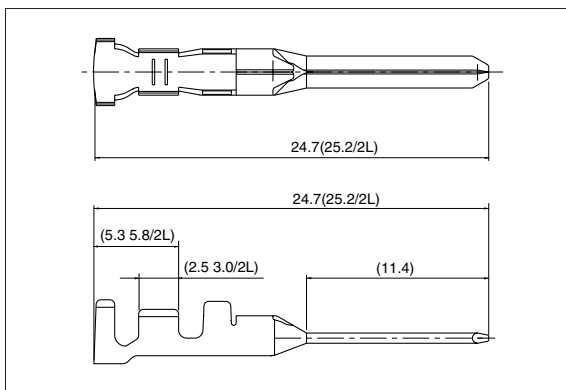
Copper alloy (superior conductivity), nickel-underplated, selective gold-plated tin-plated (reflow treatment)

RoHS compliance

Note: 1. Finish (*): GF...Nickel-undercoated, 0.38 μ m selective gold-plated
 GL...Nickel-undercoated, 0.76 μ m selective gold-plated
 T.....Tin-plated

2. *Marked products are not CSA/TÜV approved.

Tab contact



Model No.		Applicable wire			Insulation O.D. (mm)	Q'ty	
Strip contact	Loose piece	Nominal	mm ²	AWG#		reel	Box(Loose piece)
Under planning	Under planning	S	0.08~0.20	28~24	0.8~1.4	—	—
SF3M-01 (*) -M2.0N	BF3M-01 (*) -M2.0N	M	0.20~0.50	24~20	1.2~2.6	3,500	1,000
SF3M-41 (*) -M2.0N	LF3M-41 (*) -M2.0N	L	0.50~1.25	20~16	1.8~2.8	3,300	1,000
SF3M-71 () -M2.0N	*BF3M-71 (*) -M2.0N	2L	1.25~2.0	16~14	2.4~3.4	3,200	1,000

Material and Finish

Copper alloy (superior conductivity), nickel-underplated, selective gold-plated tin-plated (reflow treatment)

RoHS compliance

Note: 1. Finish (*): GF...Nickel-undercoated, 0.38 μ m selective gold-plated
 GL...Nickel-undercoated, 0.76 μ m selective gold-plated
 T.....Tin-plated

2. *Marked products are not CSA/TÜV approved.

Crimping machine, Applicator

Strip contact Model No.	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies	Hand crimp tools
SF3F-002 (*) -P2.0	AP-K2N	MKS-L	MK/SF3F-002-20	APLMK SF3F/M002-20	YRK-8821
SF3F-01 (*) -P2.0			MK/SF3F/M-01-20	APLMK SF3F/M01-20	YRK-8811
SF3M-01 (*) -M2.0N					
SF3F-41 (*) -P2.0			MK/SF3F/M-41-20	APLMK SF3F/M41-20	YRK-8801
SF3M-41 (*) -M2.0N					
SF3F-71 (*) -P2.0			MK/SF3F/M-71-20	APLMK SF3F/M71-20	YRK-1071
SF3M-71 (*) -M2.0N					

Note: Finish (*): GF...Nickel-undercoated, 0.38 μ m selective gold-plated
 GL...Nickel-undercoated, 0.76 μ m selective gold-plated
 T.....Tin-plated

Loose piece	Hand crimp tools
BF3F-002 (*) -P2.0	YRF-882
BF3F-01 (*) -P2.0	YRF-881
BF3M-01 (*) -M2.0N	
LF3F-41 (*) -P2.0	YRF-880
LF3M-41 (*) -M2.0N	
BF3F-71 (*) -P2.0	YRF-1070
BF3M-71 (*) -M2.0N	YRF-1071

Note: Finish (*): GF...Nickel-undercoated, 0.38 μ m selective gold-plated
 GL...Nickel-undercoated, 0.76 μ m selective gold-plated
 T.....Tin-plated

- Extraction tool for J300 series: EJ-JFAJ3
- Refer to page 15, 16 for details of YRK series hand crimping tools that uses a strip contact.

Recognition mark

• Plating of the contact

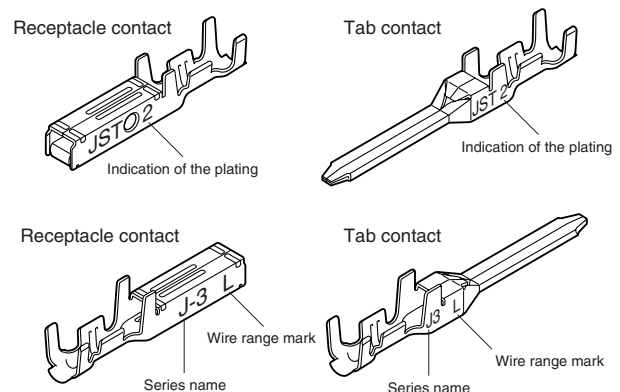
Each contact has a marking on its side so that the type or thickness of the plating is recognized.

- ex. 2 ... gold-plated 0.38 μ m thickness
 3 ... gold-plated 0.76 μ m thickness
 5 ... tin-plated

• Common marking on the contact and its application tools

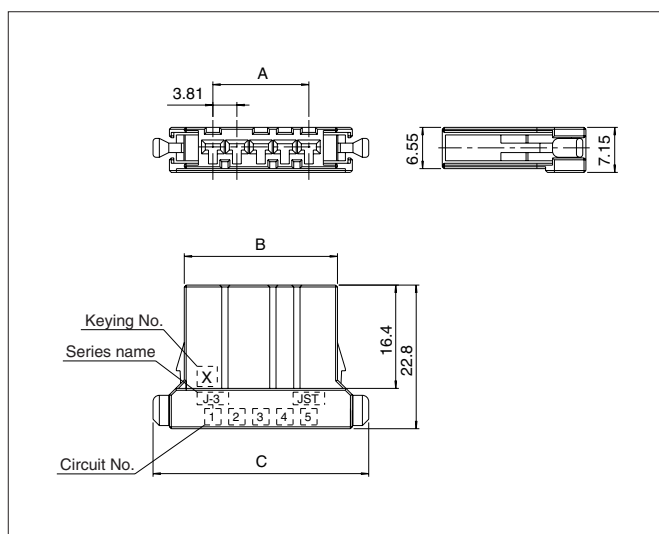
In order to avoid incorrect combination of the hand crimp tools or extraction tools and the contacts, the series name (for example J-3) and wire range mark (S, M, L, 2L) are shown on both the tools and the contacts.

For example J-3 S.....AWG #28 ~ #24
 M.....AWG #24 ~ #20
 L.....AWG #20 ~ #16
 2L....AWG #16 ~ #14



J300 SERIES/J310S

Receptacle housing



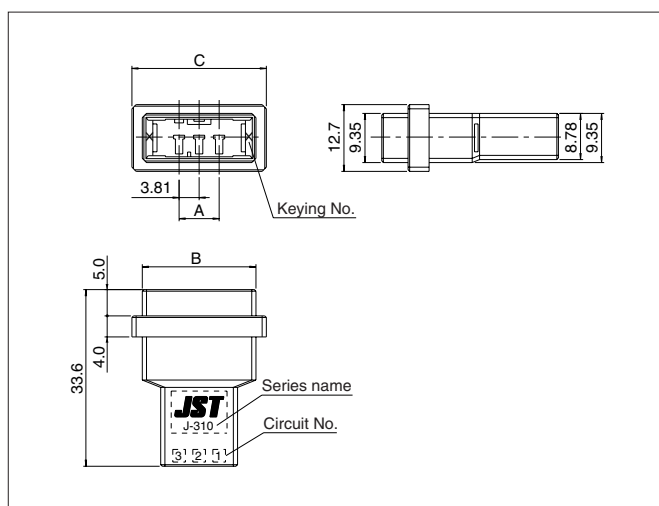
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
3	X	F31FSS-03V-KX	7.62	16.70	26.62	200
	Y	F31FSS-03V-KY	7.62	16.70	26.62	200
4	X	F31FSS-04V-KX	11.43	20.51	30.43	200
	Y	F31FSS-04V-KY	11.43	20.51	30.43	200
5	X	F31FSS-05V-KX	15.24	24.32	34.24	200
	Y	F31FSS-05V-KY	15.24	24.32	34.24	200
6	X	F31FSS-06V-KX	19.05	28.13	38.05	200
	Y	F31FSS-06V-KY	19.05	28.13	38.05	200
8	X	F31FSS-08V-KX	26.67	35.75	45.67	100
	Y	F31FSS-08V-KY	26.67	35.75	45.67	100
10	X	F31FSS-10V-KX	34.29	43.37	53.29	100
	Y	F31FSS-10V-KY	34.29	43.37	53.29	100

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing (Free hanging type)



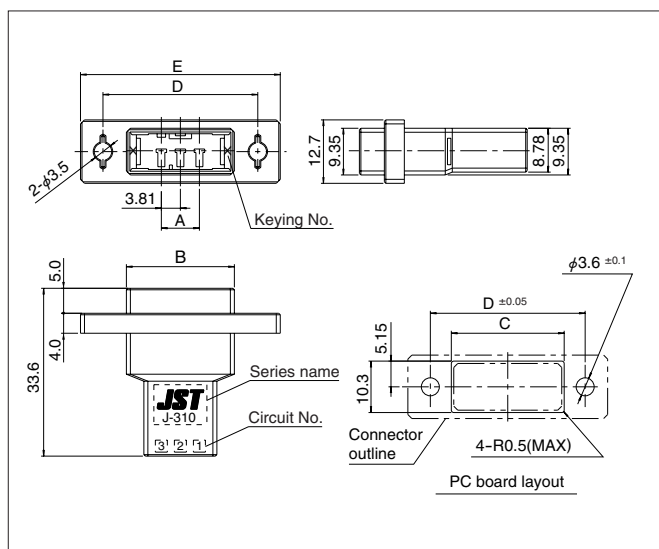
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
3	X	F31MSF-03V-KX	7.62	21.62	25.57	200
	Y	F31MSF-03V-KY	7.62	21.62	25.57	200
5	X	F31MSF-05V-KX	15.24	29.24	33.19	200
	Y	F31MSF-05V-KY	15.24	29.24	33.19	200
8	X	F31MSF-08V-KX	26.67	40.67	44.62	100
	Y	F31MSF-08V-KY	26.67	40.67	44.62	100
10	X	F31MSF-10V-KX	34.29	48.29	52.24	100
	Y	F31MSF-10V-KY	34.29	48.29	52.24	100

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing (Panel mounting type)



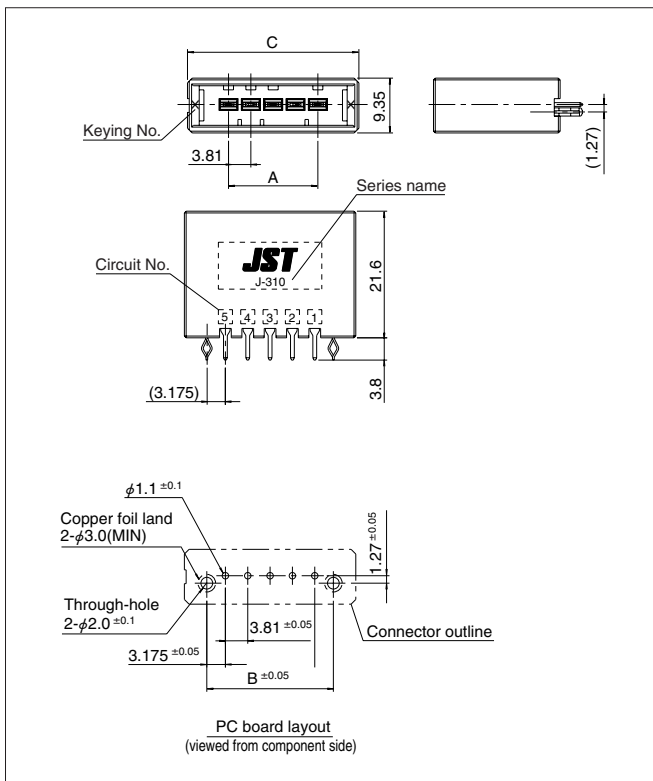
Circuits	Keying	Model No.	Dimensions (mm)					Q'ty / bag
			A	B	C	D	E	
3	X	F31MSP-03V-KX	7.62	21.62	22.60	31.00	40.00	200
	Y	F31MSP-03V-KY	7.62	21.62	22.60	31.00	40.00	200
5	X	F31MSP-05V-KX	15.24	29.24	30.20	38.00	47.00	200
	Y	F31MSP-05V-KY	15.24	29.24	30.20	38.00	47.00	200
8	X	F31MSP-08V-KX	26.67	40.67	41.60	50.00	59.00	100
	Y	F31MSP-08V-KY	26.67	40.67	41.60	50.00	59.00	100
10	X	F31MSP-10V-KX	34.29	48.29	49.20	58.00	67.00	100
	Y	F31MSP-10V-KY	34.29	48.29	49.20	58.00	67.00	100

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Header (Top entry type)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
3	X	B03B-F31SK-GGXR	7.62	13.97	21.62	220
	Y	B03B-F31SK-GGYR	7.62	13.97	21.62	220
4	X	B04B-F31SK-GGXR	11.43	17.78	25.43	180
	Y	B04B-F31SK-GGYR	11.43	17.78	25.43	180
5	X	B05B-F31SK-GGXR	15.24	21.59	29.24	160
	Y	B05B-F31SK-GGYR	15.24	21.59	29.24	160
6	X	B06B-F31SK-GGXR	19.05	25.40	33.05	140
	Y	B06B-F31SK-GGYR	19.05	25.40	33.05	140
8	X	B08B-F31SK-GGXR	26.67	33.02	40.67	120
	Y	B08B-F31SK-GGYR	26.67	33.02	40.67	120
10	X	B10B-F31SK-GGXR	34.29	40.64	48.29	100
	Y	B10B-F31SK-GGYR	34.29	40.64	48.29	100

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

Housing: Glass-filled PBT, UL94V-0, black

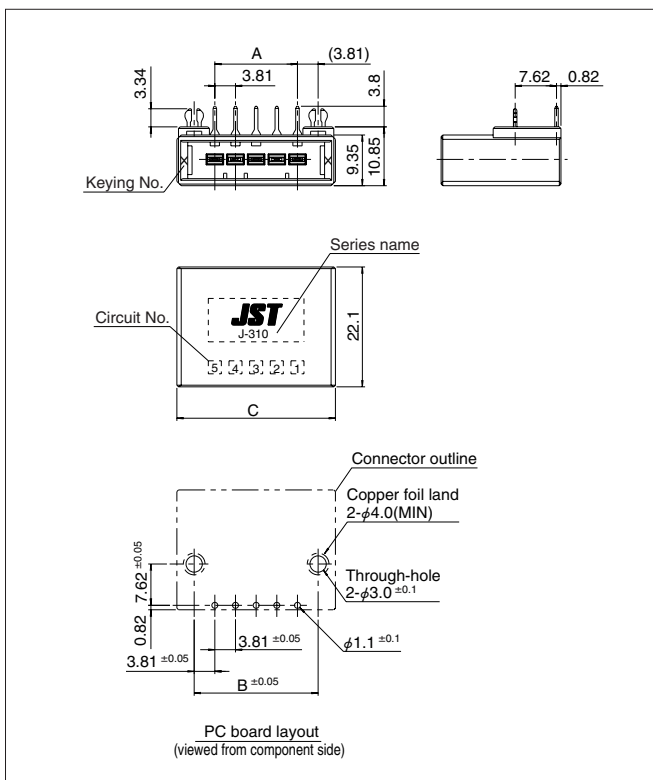
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance This product displays (LF)(AU) on a label.

Note: 1. Contact JST for the headers supplied in magazine stick.

1. Contact JST for line headers supplied in magazine stick.
2. Contact JST for 0.76 μm gold-plated product and tin-plated product.

Header (Side entry type)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
3	X	S03B-F31SK-GGXR	7.62	15.24	21.62	165
	Y	S03B-F31SK-GGYR	7.62	15.24	21.62	165
4	X	S04B-F31SK-GGXR	11.43	19.05	25.43	135
	Y	S04B-F31SK-GGYR	11.43	19.05	25.43	135
5	X	S05B-F31SK-GGXR	15.24	22.86	29.24	120
	Y	S05B-F31SK-GGYR	15.24	22.86	29.24	120
6	X	S06B-F31SK-GGXR	19.05	26.67	33.05	105
	Y	S06B-F31SK-GGYR	19.05	26.67	33.05	105
8	X	S08B-F31SK-GGXR	26.67	34.29	40.67	90
	Y	S08B-F31SK-GGYR	26.67	34.29	40.67	90
10	X	S10B-F31SK-GGXR	34.29	41.91	48.29	75
	Y	S10B-F31SK-GGYR	34.29	41.91	48.29	75

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

Housing: Glass-filled PBT, UL94V-0, black

Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance This product displays (LF)(AU) on a label.

Note: 1. Contact JST for the headers supplied in magazine stick.

1. Contact JST for the headers supplied in magazine stick.
2. Contact JST for 0.76 μm gold-plated product and tin-plated product.

Receptacle housing

Material

RoHS compliance

Technical drawing of the JST 310 connector showing three views: top, side, and front.

Top View: Dimensions include 3.81 (width of the terminal area), 5.08 (height of the terminal area), and A (width of the main body).

Side View: Dimensions include 17.78 (total length) and 14.43 (length of the main body). A label "Line No." points to the top surface.

Front View: Dimensions include 33.6 (total height), 4.0 (height of the top section), and 5.0 (height of the middle section). The label "Series name" points to the "JST" logo, and "Circuit No." points to the "3-310" marking. The bottom of the connector shows three pins labeled 1, 2, and 3.

Material

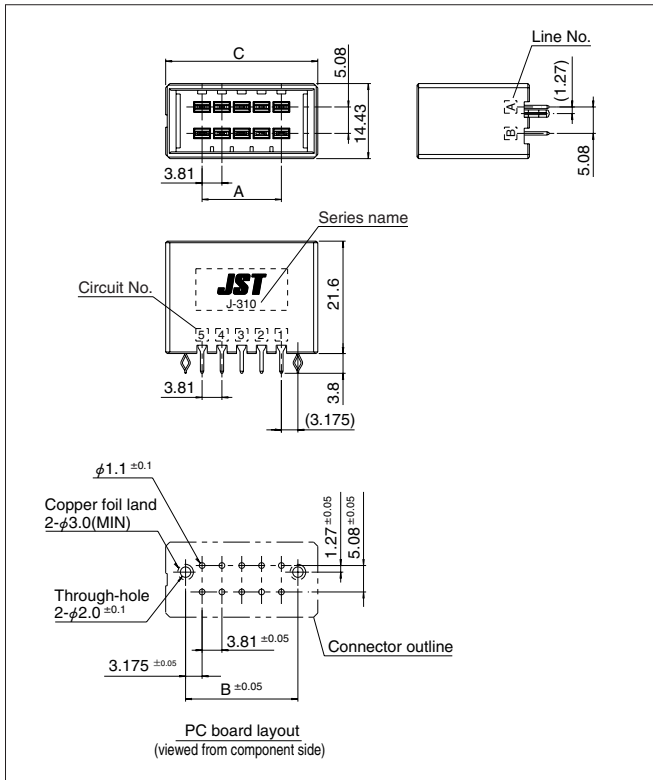
RoHS compliance

Figure 1: Dimensions of the JST J-310 connector. The figure includes three views: a top view, a side view, and a front view. The top view shows a rectangular connector with dimensions E (total width), D (inner width), 5.08 (height), 3.81 (inner height), and A (mounting hole diameter). Two mounting holes are shown with diameter 2-φ3.5. The side view shows a total height of 17.78 and a mounting hole diameter of 14.43. The front view shows a total height of 33.6, with segments of 5.0, 4.0, and 24.6. It also shows the JST logo, 'J-310', 'Series name', and 'Circuit No.' labels. The bottom view shows dimensions 15.3, 7.65, D ±0.05, C, and 4-R0.5(MAX). It also shows a connector outline and a PC board layout.

Material

RoHS compliance

Header (Top entry type)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
6	—	B06B-F31DK-GGR	7.62	13.97	21.62	132
8	—	B08B-F31DK-GGR	11.43	17.78	25.43	108
10	—	B10B-F31DK-GGR	15.24	21.59	29.24	96
12	—	B12B-F31DK-GGR	19.05	25.40	33.05	84
16	—	B16B-F31DK-GGR	26.67	33.02	40.67	72
20	—	B20B-F31DK-GGR	34.29	40.64	48.29	60

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

Housing: Glass-filled PBT, UL94V-0, black

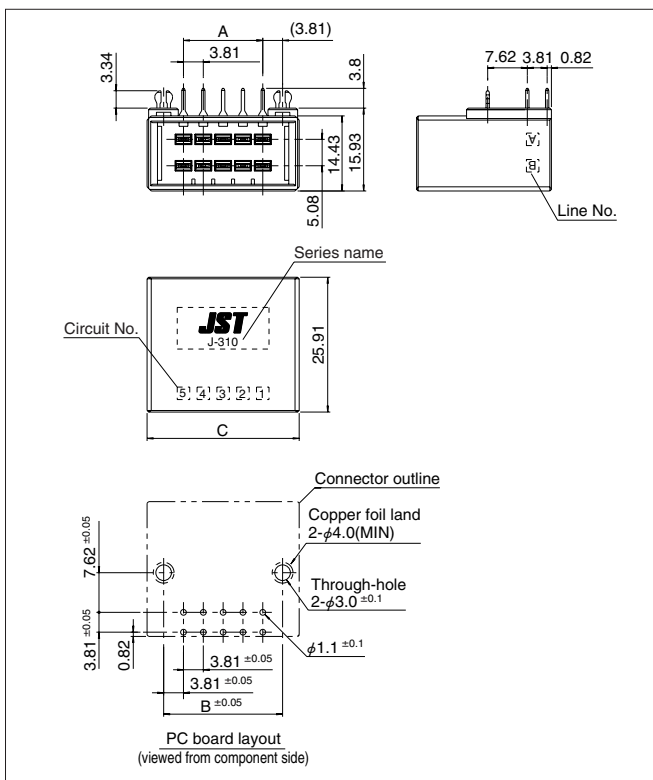
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance This product displays (LF) (AU) on a label.

Note: 1. Contact JST for the headers supplied in magazine stick.

2. Contact JST for 0.76 μ m gold-plated product and tin-plated product.

Header (Side entry type)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
6	—	S06B-F31DK-GGR	7.62	15.24	21.62	88
8	—	S08B-F31DK-GGR	11.43	19.05	25.43	72
10	—	S10B-F31DK-GGR	15.24	22.86	29.24	64
12	—	S12B-F31DK-GGR	19.05	26.67	33.05	56
16	—	S16B-F31DK-GGR	26.67	34.29	40.67	48
20	—	S20B-F31DK-GGR	34.29	41.91	48.29	40

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

Housing: Glass-filled PBT, UL94V-0, black

Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

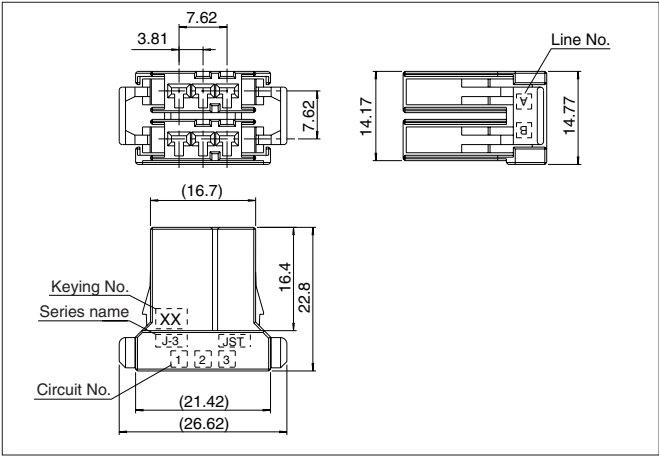
RoHS compliance This product displays (LF) (AU) on a label.

Note: 1. Contact JST for the headers supplied in magazine stick.

2. Contact JST for 0.76 μ m gold-plated product and tin-plated product.

J300 SERIES/J310M

Receptacle housing

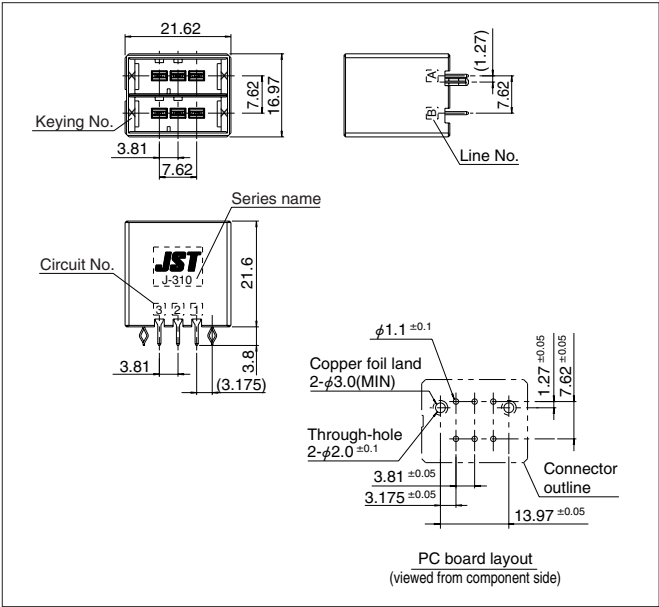


Circuits	Keying	Model No.	Q'ty / box
6	XX	F31FMS-06V-KXX	100
	YY	F31FMS-06V-KYY	100
	XY	F31FMS-06V-KXY	100

Material			
Glass-filled PBT, UL94V-0, black			

RoHS compliance

Header (Top entry type)

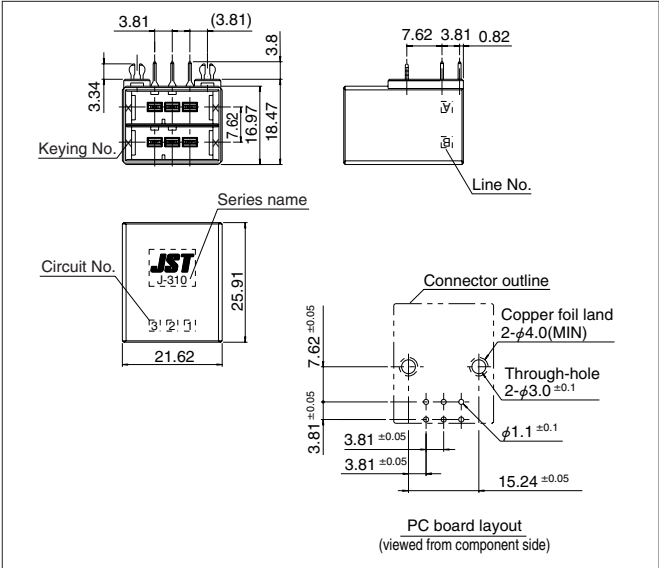


Circuits	Keying	Model No.	Q'ty / box
6	XX	B06B-F31MK-GGXXR	132
	YY	B06B-F31MK-GGYR	132
	XY	B06B-F31MK-GGXYR	132

Material and Finish			
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated			
Housing: Glass-filled PBT, UL94V-0, black			
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated			

RoHS compliance This product displays (LF)(AU) on a label.
Note: 1. Contact JST for the headers supplied in magazine stick.
2. Contact JST for 0.76 μ m gold-plated product and tin-plated product.

Header (Side entry type)



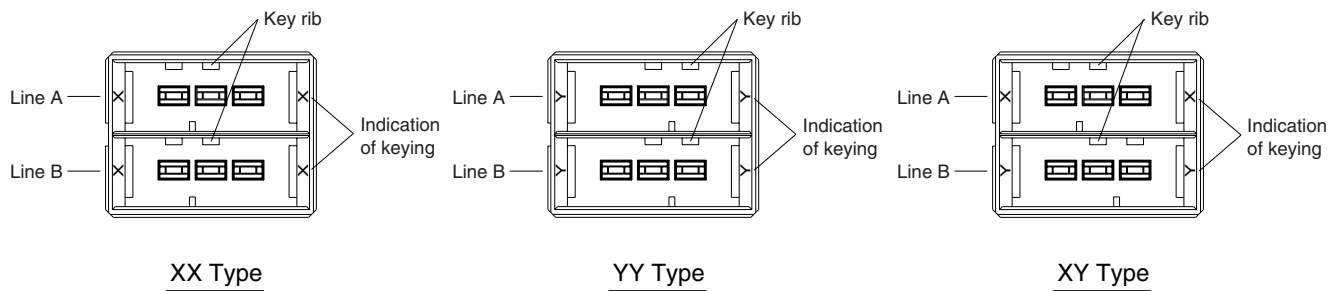
Circuits	Keying	Model No.	Q'ty / box
6	XX	S06B-F31MK-GGXXR	88
	YY	S06B-F31MK-GGYR	88
	XY	S06B-F31MK-GGXYR	88

Material and Finish			
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated			
Housing: Glass-filled PBT, UL94V-0, black			
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated			

RoHS compliance This product displays (LF)(AU) on a label.
Note: 1. Contact JST for the headers supplied in magazine stick.
2. Contact JST for 0.76 μ m gold-plated product and tin-plated product.

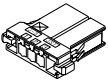


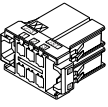
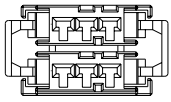
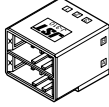
Keying

J310M series have mis-insertion preventive keying.
Available in 3 types – XX type, YY type and XY type.
(Headers viewed from the mating side are shown below.)



List of combinations

With the combination of the J310M headers and the J310M/J310S (3 circuits) receptacle housings, the following modular combinations are possible.

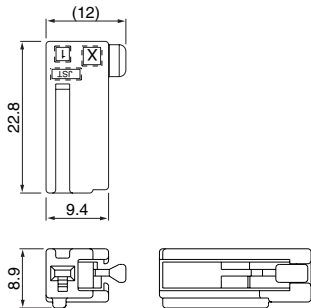
Receptacle housing		Header			
		Top entry type		Side entry type	
Single-row 3 circuits (J310S) 	X Type F31FSS-03V-KX		X Type B03B-F31SK-GGX■		X Type S03B-F31SK-GGX■
	Y Type F31FSS-03V-KY		Y Type B03B-F31SK-GGY■		Y Type S03B-F31SK-GGY■
Double-row 6 circuits (J310M) 	XX Type F31FMS-06V-KXX		XX Type B06B-F31MK-GGXX■		XX Type S06B-F31MK-GGXX■
	YY Type F31FMS-06V-KYY		YY Type B06B-F31MK-GGYY■		YY Type S06B-F31MK-GGYY■
	XY Type F31FMS-06V-KXY		XY Type B06B-F31MK-GGXY■		XY Type S06B-F31MK-GGXY■

Note: Packaging method is indicated in ■. (R=Tray)

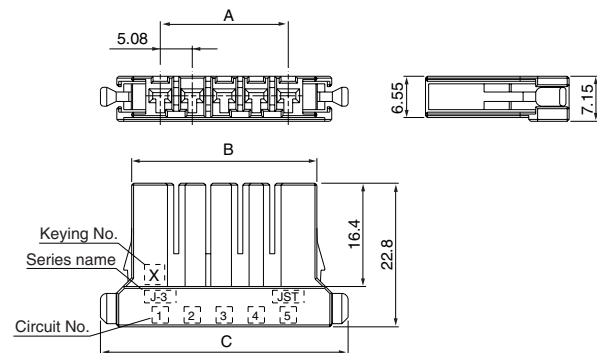
J300 SERIES/J320S

Receptacle housing

• Single circuit



• 2 to 6 circuits



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
1	X	F32FSS-01V-KX	—	—	—	200
	Y	F32FSS-01V-KY	—	—	—	200
2	X	F32FSS-02V-KX	5.08	14.16	24.08	200
	Y	F32FSS-02V-KY	5.08	14.16	24.08	200
3	X	F32FSS-03V-KX	10.16	19.24	29.16	200
	Y	F32FSS-03V-KY	10.16	19.24	29.16	200
4	X	F32FSS-04V-KX	15.24	24.32	34.24	200
	Y	F32FSS-04V-KY	15.24	24.32	34.24	200
5	X	F32FSS-05V-KX	20.32	29.40	39.32	200
	Y	F32FSS-05V-KY	20.32	29.40	39.32	200
6	X	F32FSS-06V-KX	25.40	34.48	44.40	100
	Y	F32FSS-06V-KY	25.40	34.48	44.40	100

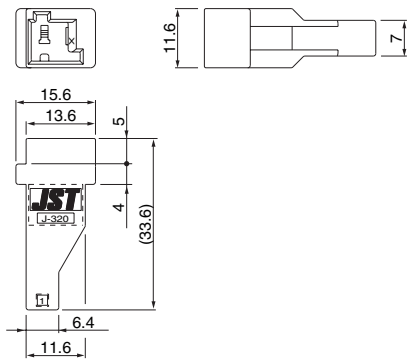
Material

Glass-filled PBT, UL94V-0, black

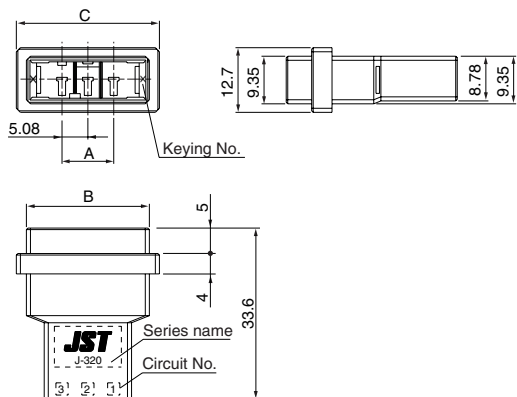
RoHS compliance

Tab housing (Free hanging type)

• Single circuit



• 2 to 4 circuits



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
1	X	F32MSF-01V-KX	—	—	—	150
	Y	F32MSF-01V-KY	—	—	—	150
2	X	F32MSF-02V-KX	5.08	19.08	23.03	200
	Y	F32MSF-02V-KY	5.08	19.08	23.03	200
3	X	F32MSF-03V-KX	10.16	24.16	28.11	200
	Y	F32MSF-03V-KY	10.16	24.16	28.11	200
4	X	F32MSF-04V-KX	15.24	29.24	33.19	200
	Y	F32MSF-04V-KY	15.24	29.24	33.19	200

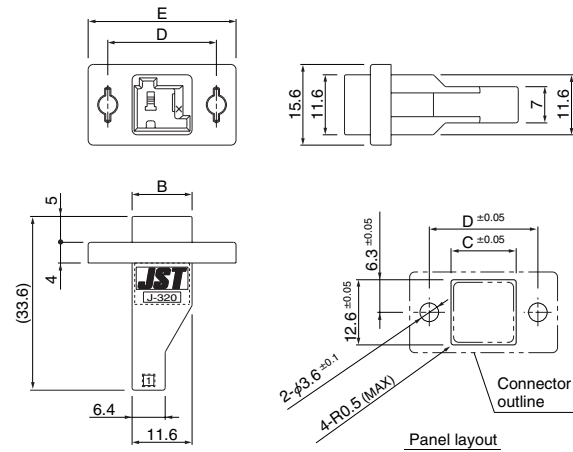
Material

Glass-filled PBT, UL94V-0, black

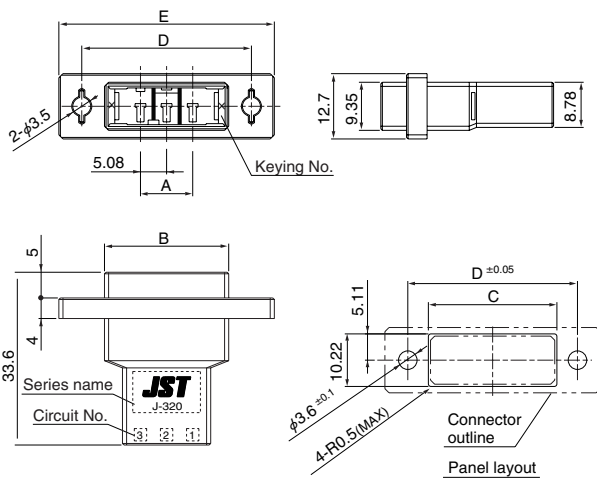
RoHS compliance

Tab housing (Panel mounting type)

• Single circuit



• 2 to 4 circuits



Circuits	Keying	Model No.	Dimensions (mm)					Q'ty / bag
			A	B	C	D	E	
1	X	F32MSP-01V-KX	—	11.60	12.60	21.00	28.60	150
	Y	F32MSP-01V-KY	—	11.60	12.60	21.00	28.60	150
2	X	F32MSP-02V-KX	5.08	19.08	20.00	28.00	36.83	200
	Y	F32MSP-02V-KY	5.08	19.08	20.00	28.00	36.83	200
3	X	F32MSP-03V-KX	10.16	24.16	25.00	33.00	41.91	200
	Y	F32MSP-03V-KY	10.16	24.16	25.00	33.00	41.91	200
4	X	F32MSP-04V-KX	15.24	29.24	30.00	38.00	46.99	200
	Y	F32MSP-04V-KY	15.24	29.24	30.00	38.00	46.99	200

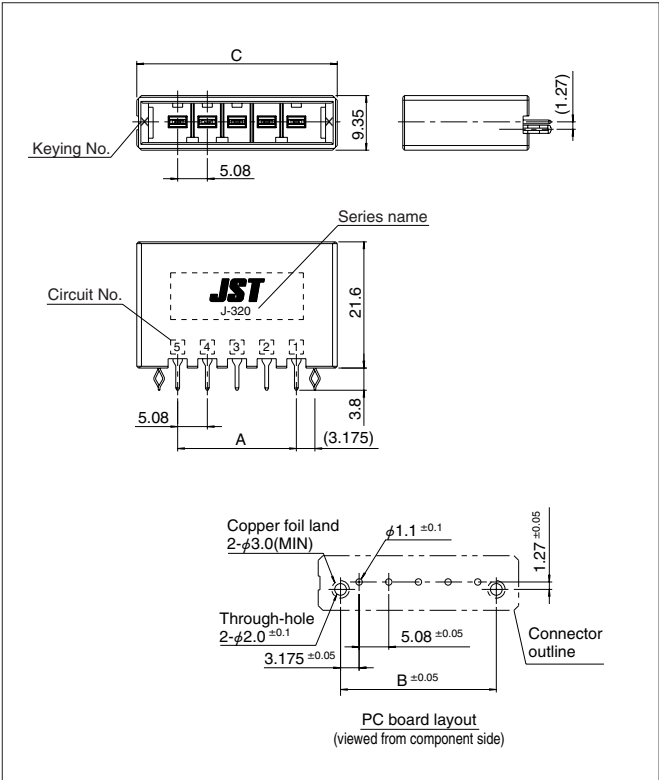
Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

J300 SERIES/J320S

Header (Top entry type)



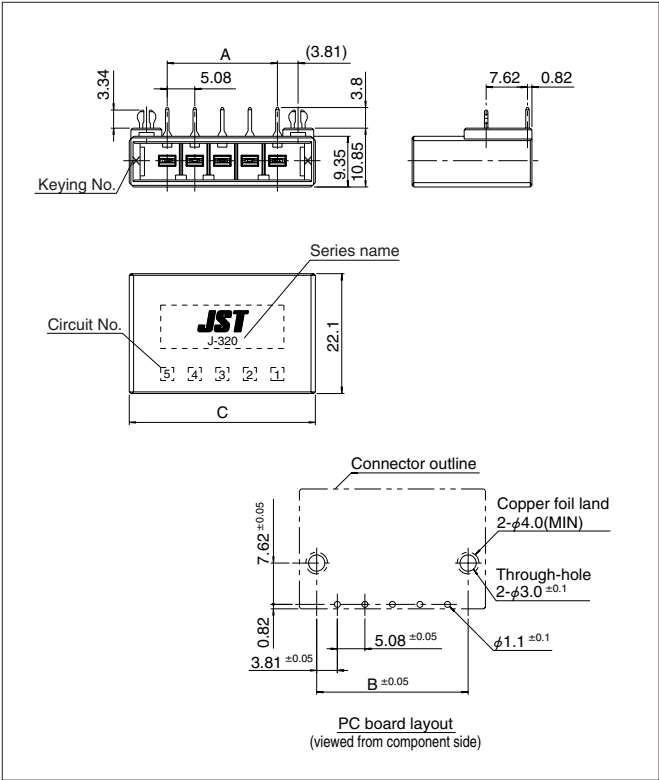
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
2	X	B02B-F32SK-GGX ^R	5.08	11.43	19.08	240
	Y	B02B-F32SK-GGY ^R	5.08	11.43	19.08	240
3	X	B03B-F32SK-GGX ^R	10.16	16.51	24.16	200
	Y	B03B-F32SK-GGY ^R	10.16	16.51	24.16	200
4	X	B04B-F32SK-GGX ^R	15.24	21.59	29.24	160
	Y	B04B-F32SK-GGY ^R	15.24	21.59	29.24	160
5	X	B05B-F32SK-GGX ^R	20.32	26.67	34.32	140
	Y	B05B-F32SK-GGY ^R	20.32	26.67	34.32	140
6	X	B06B-F32SK-GGX ^R	25.40	31.75	39.40	120
	Y	B06B-F32SK-GGY ^R	25.40	31.75	39.40	120

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance This product displays (LF)(AU) on a label.
Note: 1. Contact JST for the headers supplied in magazine stick.
2. Contact JST for 0.76 μ m gold-plated product and tin-plated product.

Header (Side entry type)



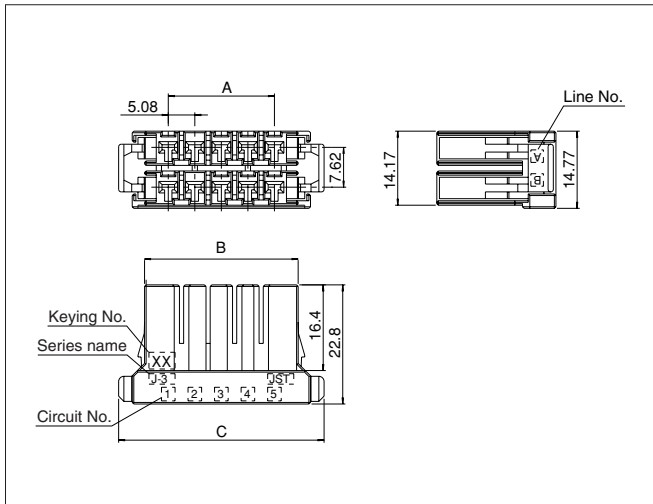
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
2	X	S02B-F32SK-GGX ^R	5.08	12.70	19.08	180
	Y	S02B-F32SK-GGY ^R	5.08	12.70	19.08	180
3	X	S03B-F32SK-GGX ^R	10.16	17.78	24.16	150
	Y	S03B-F32SK-GGY ^R	10.16	17.78	24.16	150
4	X	S04B-F32SK-GGX ^R	15.24	22.86	29.24	120
	Y	S04B-F32SK-GGY ^R	15.24	22.86	29.24	120
5	X	S05B-F32SK-GGX ^R	20.32	27.94	34.32	105
	Y	S05B-F32SK-GGY ^R	20.32	27.94	34.32	105
6	X	S06B-F32SK-GGX ^R	25.40	33.02	39.40	90
	Y	S06B-F32SK-GGY ^R	25.40	33.02	39.40	90

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance This product displays (LF)(AU) on a label.
Note: 1. Contact JST for the headers supplied in magazine stick.
2. Contact JST for 0.76 μ m gold-plated product and tin-plated product.

Receptacle housing



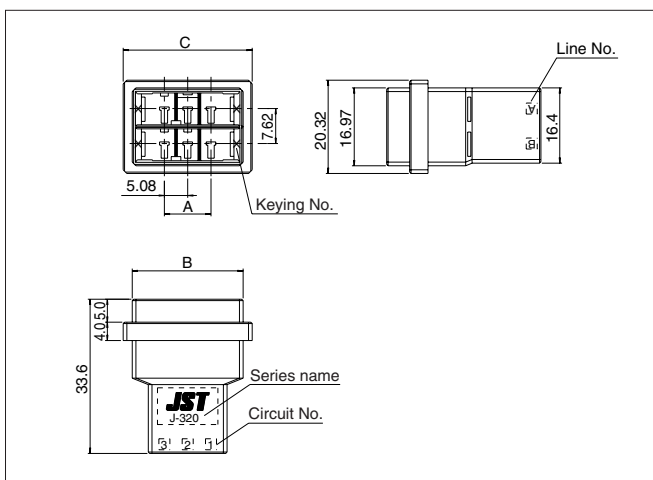
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
6	XX	F32FMS-06V-KXX	10.16	19.24	29.16	100
	YY	F32FMS-06V-KYY	10.16	19.24	29.16	100
	XY	F32FMS-06V-KXY	10.16	19.24	29.16	100
10	XX	F32FMS-10V-KXX	20.32	29.40	39.32	100
	YY	F32FMS-10V-KYY	20.32	29.40	39.32	100
	XY	F32FMS-10V-KXY	20.32	29.40	39.32	100
12	XX	F32FMS-12V-KXX	25.40	34.48	44.40	100
	YY	F32FMS-12V-KYY	25.40	34.48	44.40	100
	XY	F32FMS-12V-KXY	25.40	34.48	44.40	100
20	XX	F32FMS-20V-KXX	45.72	54.80	64.72	96(box)
	YY	Under planning	—	—	—	—
	XY	Under planning	—	—	—	—

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing (Free hanging type)



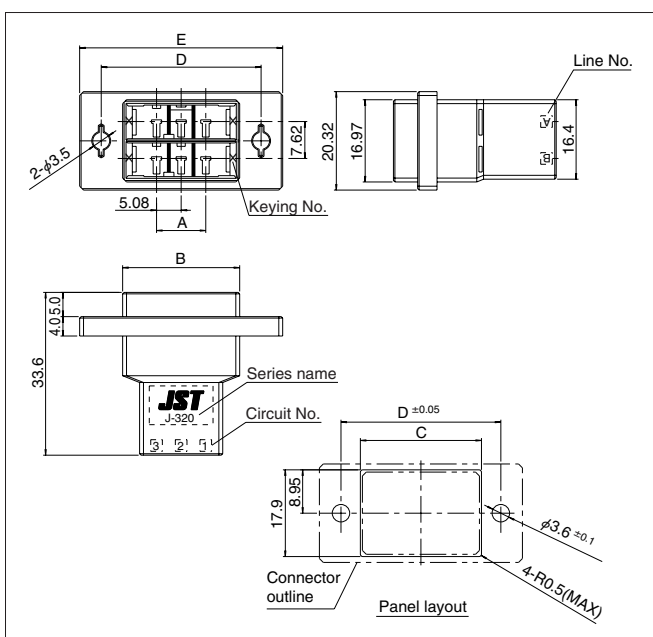
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
6	XX	F32MDF-06V-KXX	10.16	24.16	28.11	100
	YY	F32MDF-06V-KYY	10.16	24.16	28.11	100
	XY	F32MDF-06V-KXY	10.16	24.16	28.11	100
12	XX	F32MDF-12V-KXX	25.40	39.40	43.35	100
	YY	F32MDF-12V-KYY	25.40	39.40	43.35	100
	XY	F32MDF-12V-KXY	25.40	39.40	43.35	100

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing (Panel mounting type)



Circuits	Keying	Model No.	Dimensions (mm)					Q'ty / bag
			A	B	C	D	E	
6	XX	F32MDP-06V-KXX	10.16	24.16	25.00	33.00	41.91	100
	YY	F32MDP-06V-KYY	10.16	24.16	25.00	33.00	41.91	100
	XY	F32MDP-06V-KXY	10.16	24.16	25.00	33.00	41.91	100
12	XX	F32MDP-12V-KXX	25.40	39.40	41.00	49.00	57.91	100
	YY	F32MDP-12V-KYY	25.40	39.40	41.00	49.00	57.91	100
	XY	F32MDP-12V-KXY	25.40	39.40	41.00	49.00	57.91	100
20	XX	F32MDP-20V-KXX	45.72	59.72	61.00	70.00	78.23	40(box)
	YY	Under planning	—	—	—	—	—	—
	XY	Under planning	—	—	—	—	—	—

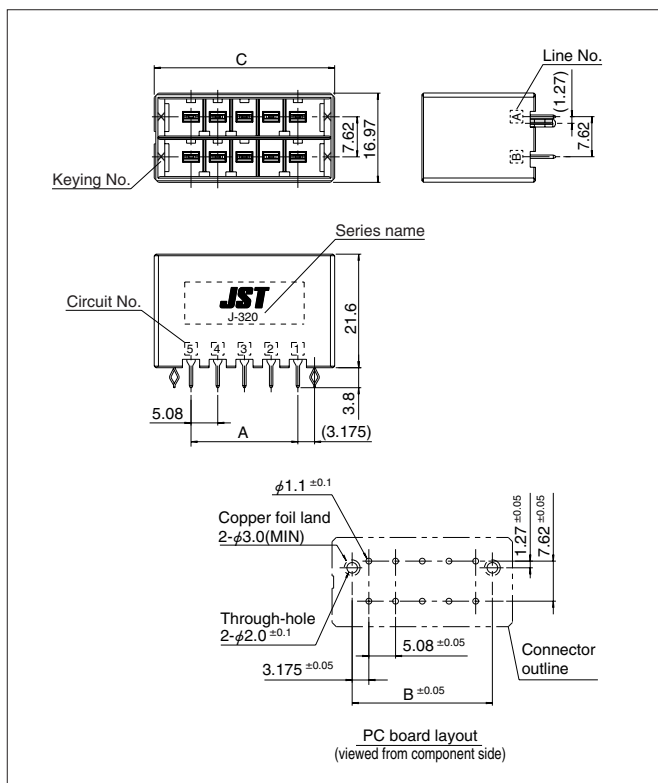
Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

J300 SERIES/J320M

Header (Top entry type)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
6	XX	B06B-F32MK-GGXXR	10.16	16.51	24.16	120
	YY	B06B-F32MK-GGYR	10.16	16.51	24.16	120
	XY	B06B-F32MK-GGXRYR	10.16	16.51	24.16	120
10	XX	B10B-F32MK-GGXXR	20.32	26.67	34.32	84
	YY	B10B-F32MK-GGYR	20.32	26.67	34.32	84
	XY	B10B-F32MK-GGXRYR	20.32	26.67	34.32	84
12	XX	B12B-F32MK-GGXXR	25.40	31.75	39.40	72
	YY	B12B-F32MK-GGYR	25.40	31.75	39.40	72
	XY	B12B-F32MK-GGXRYR	25.40	31.75	39.40	72

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

Housing: Glass-filled PBT, UL94V-0, black

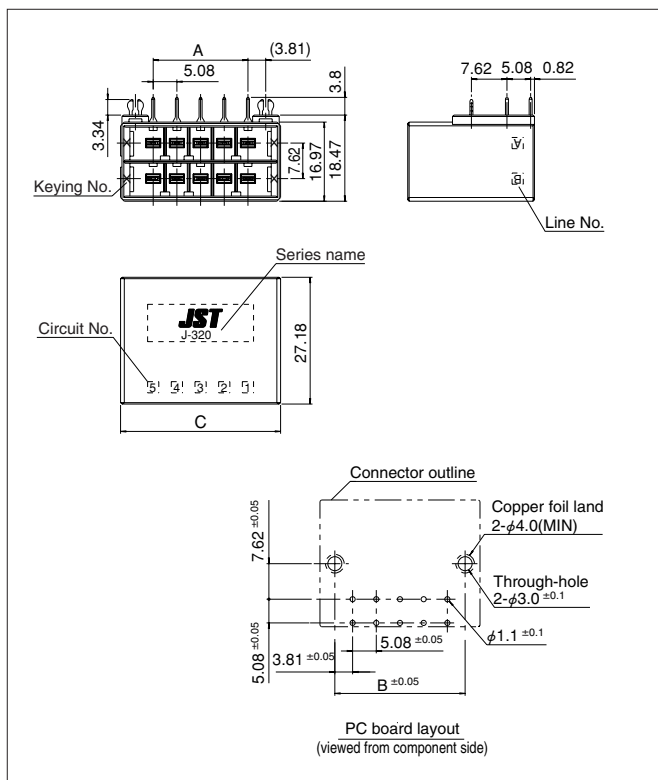
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance This product displays (LF)(AU) on a label.

Note: 1. Contact JST for the headers supplied in magazine stick.

2. Contact JST for 0.76 μ m gold-plated product and tin-plated product.

Header (Side entry type)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
6	XX	S06B-F32MK-GGXXR	10.16	17.78	24.16	80
	YY	S06B-F32MK-GGYR	10.16	17.78	24.16	80
	XY	S06B-F32MK-GGXRYR	10.16	17.78	24.16	80
8	XY	S08B-F32MK-GGXRYR	15.24	22.86	29.24	64
10	XX	S10B-F32MK-GGXXR	20.32	27.94	34.32	56
	YY	S10B-F32MK-GGYR	20.32	27.94	34.32	56
	XY	S10B-F32MK-GGXRYR	20.32	27.94	34.32	56
12	XX	S12B-F32MK-GGXXR	25.40	33.02	39.40	48
	YY	S12B-F32MK-GGYR	25.40	33.02	39.40	48
	XY	S12B-F32MK-GGXRYR	25.40	33.02	39.40	48

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

Housing: Glass-filled PBT, UL94V-0, black

Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

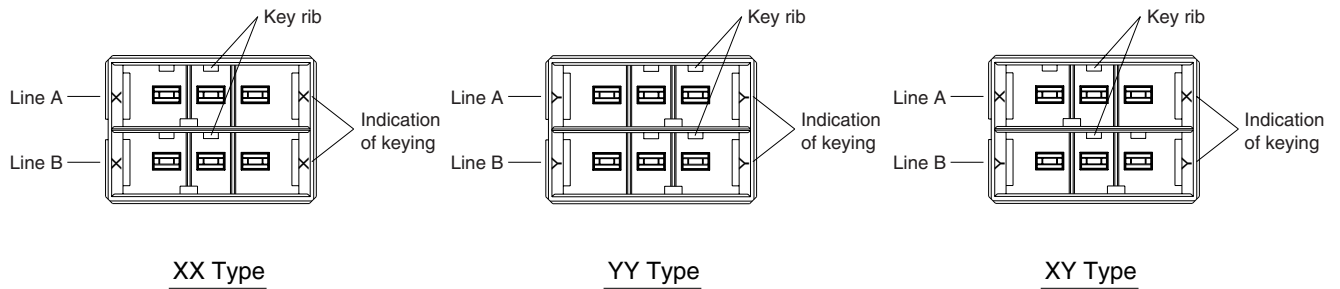
RoHS compliance This product displays (LF)(AU) on a label.

Note: 1. Contact JST for the headers supplied in magazine stick.

2. Contact JST for 0.76 μ m gold-plated product and tin-plated product.

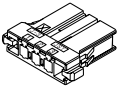


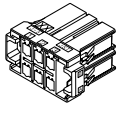
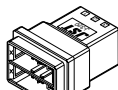

Keying

J320M series have mis-insertion preventive keying.
Available in 3 types – XX type, YY type and XY type.
(Headers viewed from the mating side are shown below.)



List of combinations

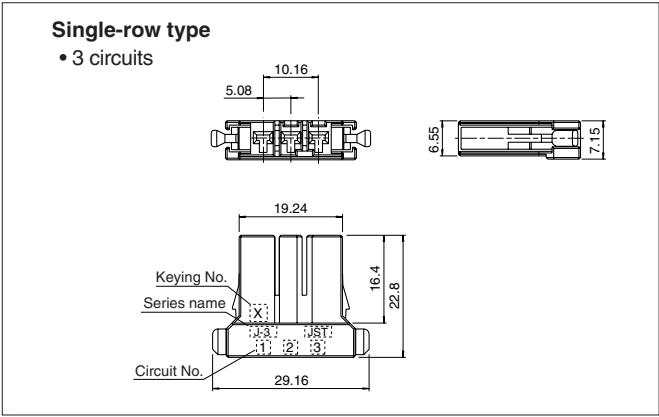
With the combination of the J320M headers and the J320M/J320S receptacle housings, the following modular combinations are possible.

Receptacle housing		Tab housing		Header	
Single-row 3, 5, 6 circuits (J320S) 	X type F32FSS-■V-KX	Single-row 3 circuits (J320S)  Free hanging type Panel mounting type	X type Free hanging type F32MSF-■V-KX Panel mounting type F32MSP-■V-KX	Single-row 3, 5, 6 circuits (J320S)  Top entry type Side entry type	X type Top entry type B■B-F32SK-GGX■ Side entry type S■B-F32SK-GGX■
	Y type F32FSS-■V-KY		Y type Free hanging type F32MSF-■V-KY Panel mounting type F32MSP-■V-KY		Y type Top entry type B■B-F32SK-GGY■ Side entry type S■B-F32SK-GGY■
Double-row 6, 10, 12, 20 circuits (J320M) 	XX type F32FMS-■V-KXX	Double-row 6, 12, 20 circuits (J320M)  Free hanging type Panel mounting type	XX type Free hanging type F32MDF-■V-KXX Panel mounting type F32MDP-■V-KXX	Double-row 6, 10, 12 circuits (J320M)  Top entry type Side entry type	XX type Top entry type B■B-F32MK-GGX■ Side entry type S■B-F32MK-GGX■
	YY type F32FMS-■V-KYY		YY type Free hanging type F32MDF-■V-KYY Panel mounting type F32MDP-■V-KYY		YY type Top entry type B■B-F32MK-GGY■ Side entry type S■B-F32MK-GGY■
	XY type F32FMS-■V-KXY		XY type Free hanging type F32MDF-■V-KXY Panel mounting type F32MDP-■V-KXY		XY type Top entry type B■B-F32MK-GGY■ Side entry type S■B-F32MK-GGY■

Note: Number of circuits is indicated in ■■.
Packaging method is indicated in ■.

J300 SERIES/J320T

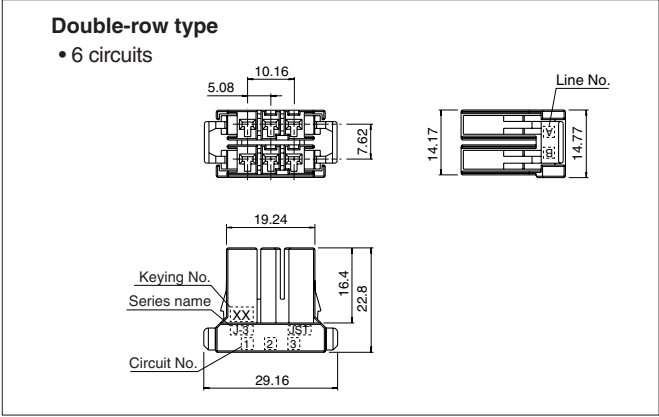
Receptacle housing



Circuits	Keying	Model No.	Q'ty / bag
3	X	F32FSS-03V-KX	200
	Y	F32FSS-03V-KY	200

Material			
Glass-filled PBT, UL94V-0, black			

RoHS compliance

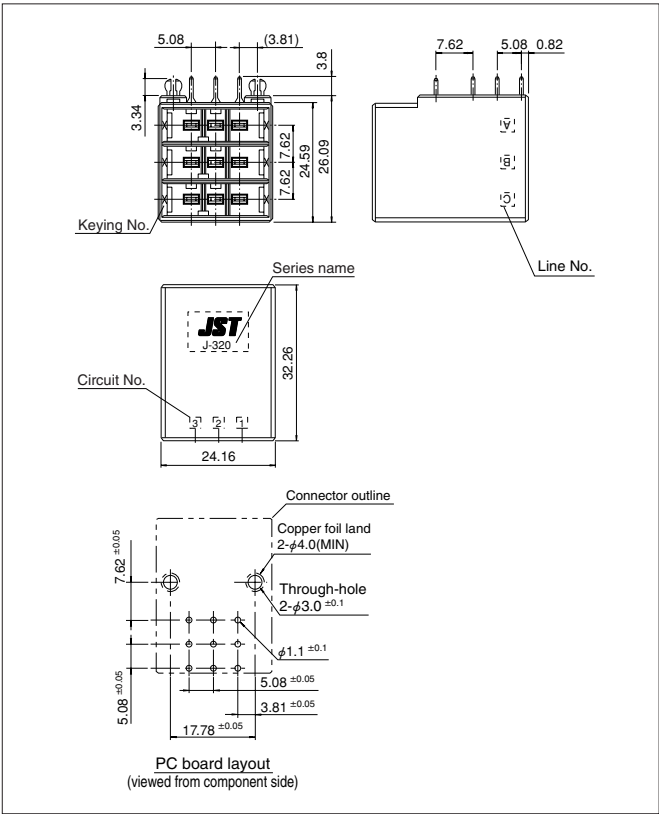


Circuits	Keying	Model No.	Q'ty / bag
6	XX	F32FMS-06V-KXX	100
	YY	F32FMS-06V-KYY	100
	XY	F32FMS-06V-KXY	100

Material			
Glass-filled PBT, UL94V-0, black			

RoHS compliance

Header (Side entry type)



Circuits	Keying	Model No.	Q'ty / box
9	XXX	S09B-F32TK-GGXAR	42
	XXY	S09B-F32TK-GGXBR	42
	XYX	S09B-F32TK-GGXCR	42
	YYX	S09B-F32TK-GGXDR	42

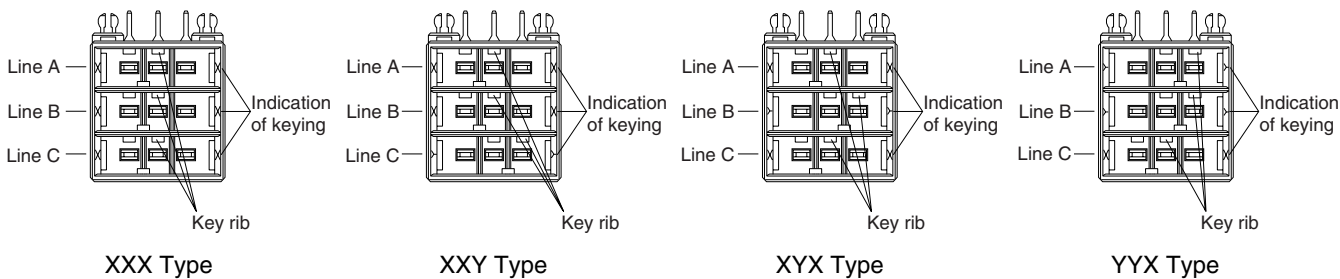
Material and Finish			
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Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance This product displays (LF)(AU) on a label.
Note: 1. Contact JST for tin-plated product.
2. Not CSA/TÜV approved

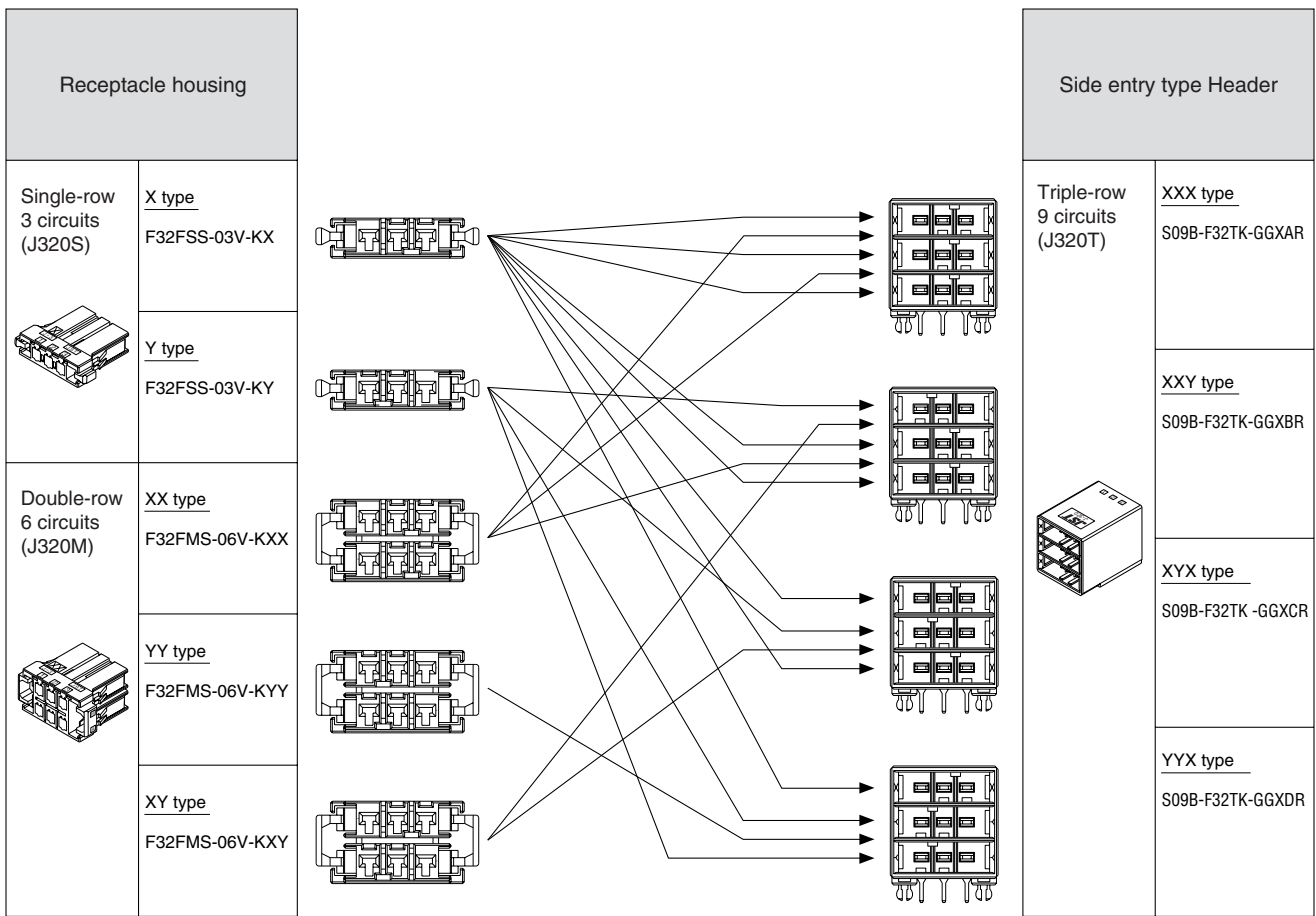
Keying

J320T series have mis-insertion preventive keying.
Available in 4 types – XXX type, XXY type, XYX type and YYX type.
(Headers viewed from the mating side are shown below.)



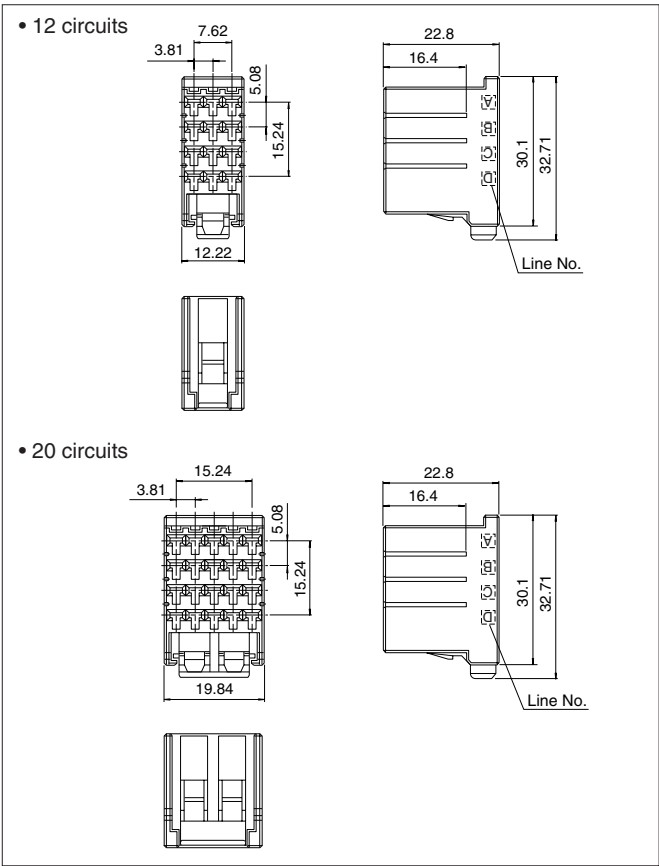
List of combinations

With the combination of the J320T headers and the J320S/J320M receptacle housings, the following modular combinations are possible.



J300 SERIES/J340F

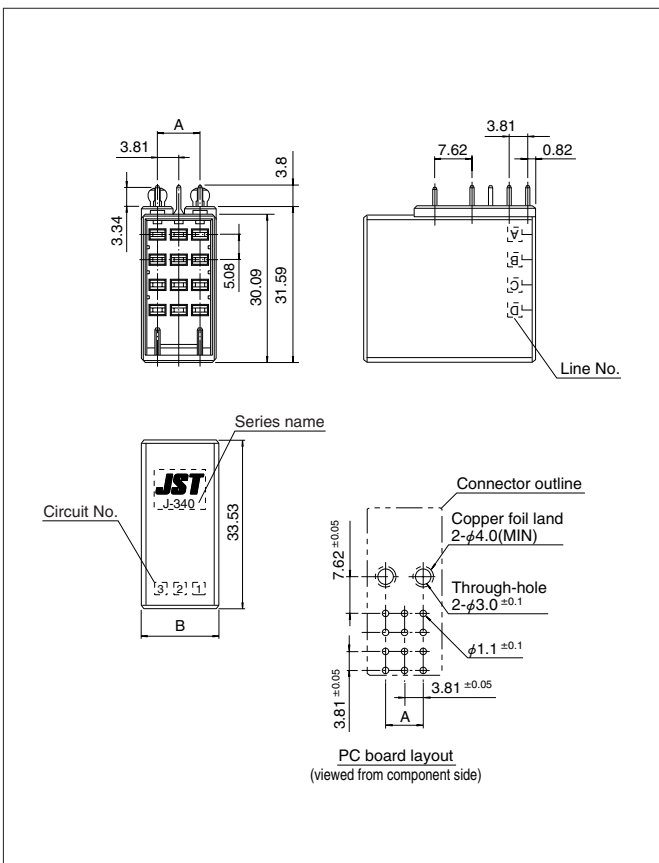
Receptacle housing



Circuits	Keying	Model No.	Q'ty / bag
12	—	F34FFC-12V-K	100
20	—	F34FFC-20V-K	100
Material			
Glass-filled PBT, UL94V-0, black			

RoHS compliance
Note: Not CSA/TÜV approved.

Header (Side entry type)

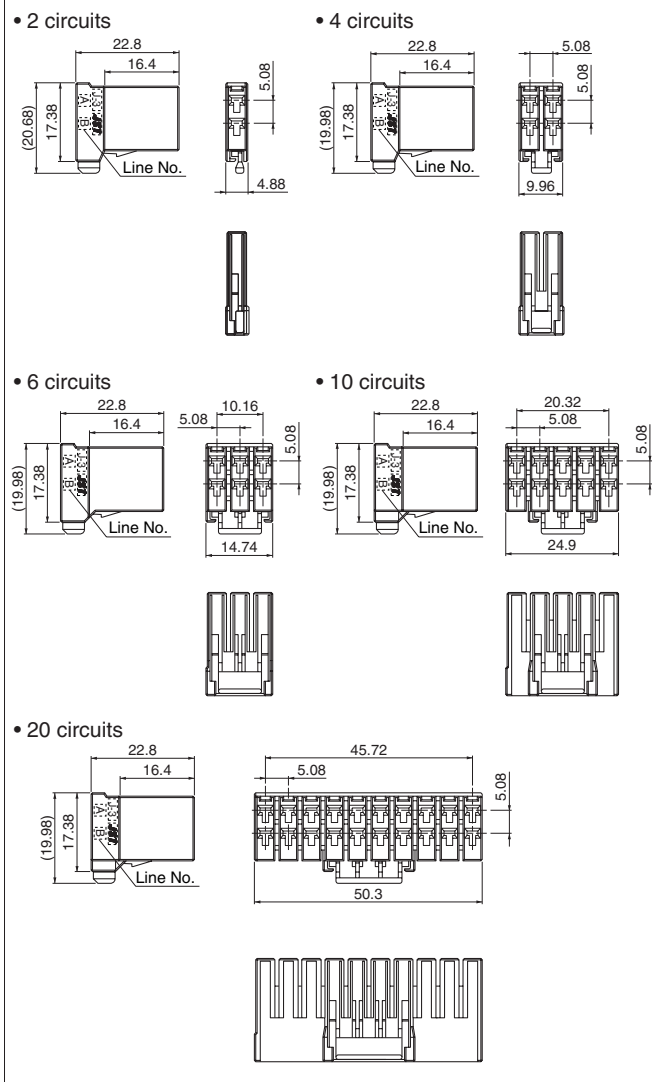


Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
12	—	SC12B-F34FK-GGR	7.62	15.02	63
20	—	SC20B-F34FK-GGR	15.24	22.64	42
Material and Finish					

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance This product displays (LF)(AU) on a label.
Note: 1. Contact JST for tin-plated product.
2. Not CSA/TÜV approved.

Receptacle housing



Circuits	Keying	Model No.	Q'ty / bag
2	—	F35FDC-02V-K	200
4	—	F35FDC-04V-K	200
6	—	F35FDC-06V-K	200
10	—	F35FDC-10V-K	100
20	—	F35FDC-20V-K	100

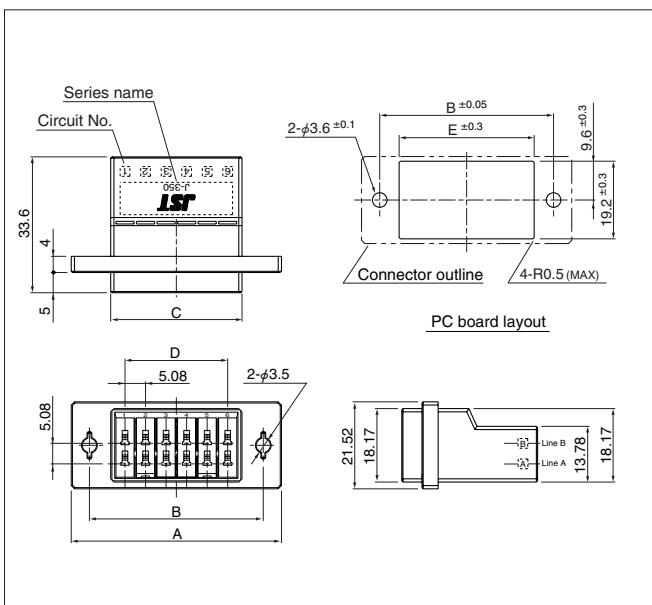
Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Note: Not CSA/TÜV approved.

Tab housing (Panel mounting type)



Circuits	Keying	Model No.	Dimensions (mm)					Q'ty / box
			A	B	C	D	E	
12	—	F35MDP-12V-K	52.00	43.00	32.48	25.40	33.40	41

Material

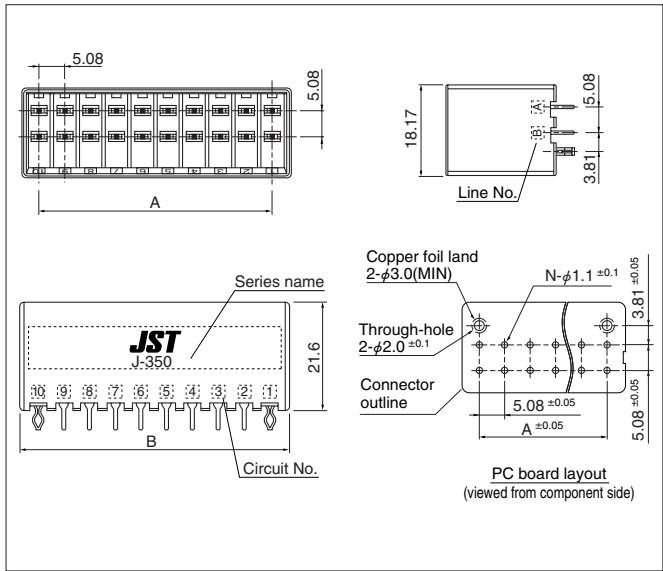
Glass-filled PBT, UL94V-0, black

RoHS compliance

Note: Not CSA/UL/TÜV approved.

J300 SERIES/J350D

Header (Top entry type)

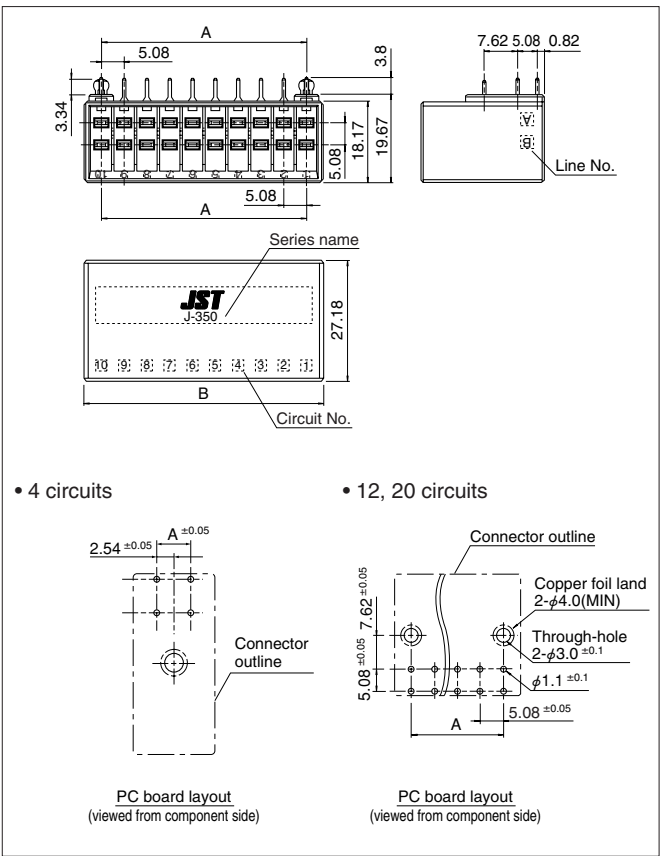


Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
12	—	BC12B-F35DK-GGR	25.4	32.48	56
20	—	BC20B-F35DK-GGR	45.72	52.8	32

Material and Finish					
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated					
Housing: Glass-filled PBT, UL94V-0, black					
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated					

RoHS compliance This product displays (LF)(AU) on a label.
Note: 1. Contact JST for tin-plated product.
2. Not CSA/TÜV approved.

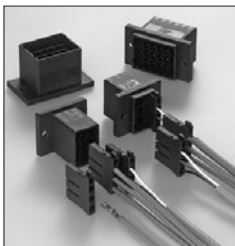
Header (Side entry type)



Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
4	—	SC04B-F35DK-GGR	5.08	12.16	152
12	—	SC12B-F35DK-GGR	25.4	32.48	56
20	—	SC20B-F35DK-GGR	45.72	52.8	32

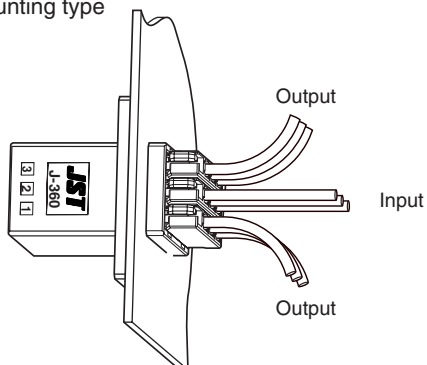
Material and Finish					
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated					
Housing: Glass-filled PBT, UL94V-0, black					
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated					

RoHS compliance This product displays (LF)(AU) on a label.
Note: 1. Contact JST for tin-plated product.
2. Not CSA/TÜV approved.

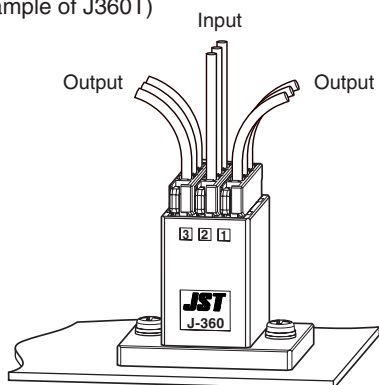


J300 SERIES/COMMON TYPE CONNECTOR

- Panel mounting type



- Direct mounting type
(Example of J360T)



- Receptacle terminal of JFA J300 series can be used.
- Between rows are commonly connected.
- Proposing rationalization of wiring.
- Mounting method of connector.

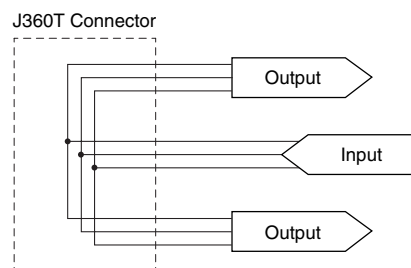
Specifications

- Current rating: 18A AC, DC (18 circuits/AWG #14)
- Voltage rating: 600V AC, DC
- Temperature range: -55°C to +105°C
(including temperature rise in applying electrical current)

*Contact JST for details.

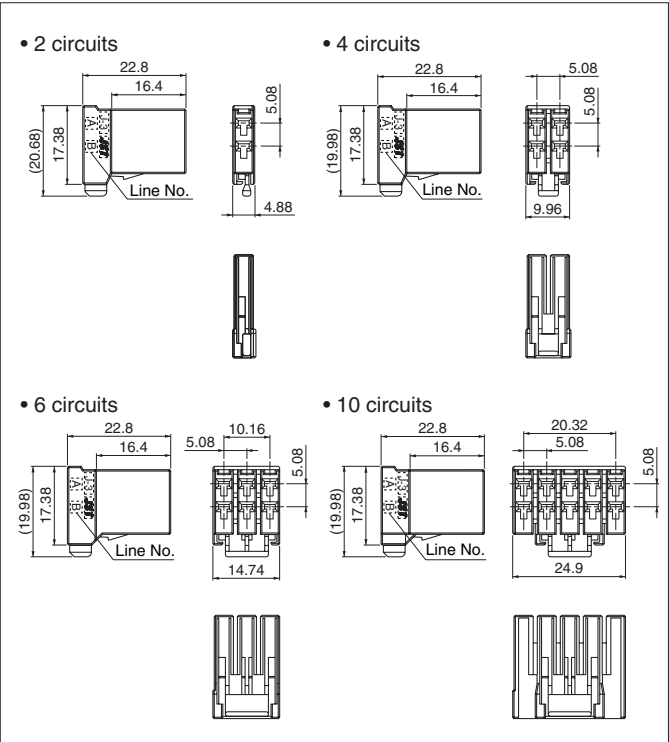
*Compliant with RoHS.

Circuit figure



COMMON TYPE/J350DC

Receptacle housing

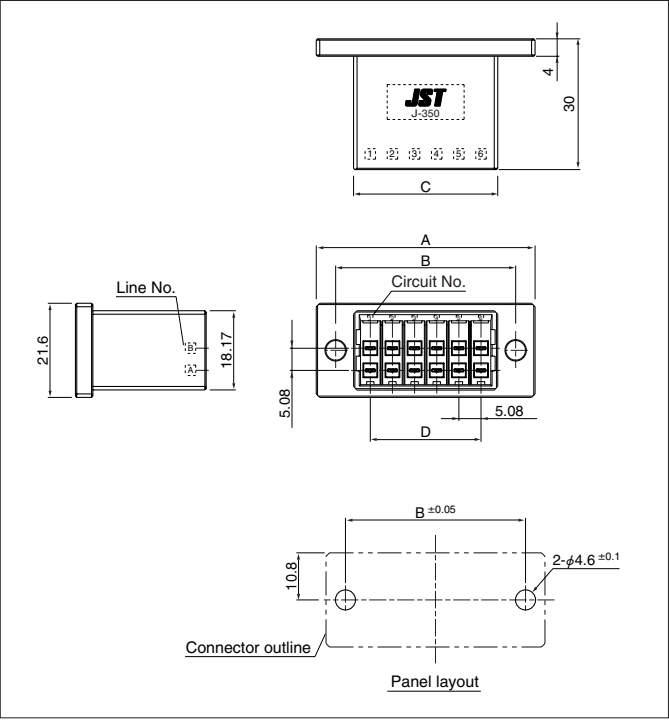


Circuits	Keying	Model No.	Q'ty / bag
2	—	F35FDC-02V-K	200
4	—	F35FDC-04V-K	200
6	—	F35FDC-06V-K	200
10	—	F35FDC-10V-K	100

Material
Glass-filled PBT, UL94V-0, black

RoHS compliance
Note: Not CSA/TÜV approved.

Tab housing assembly



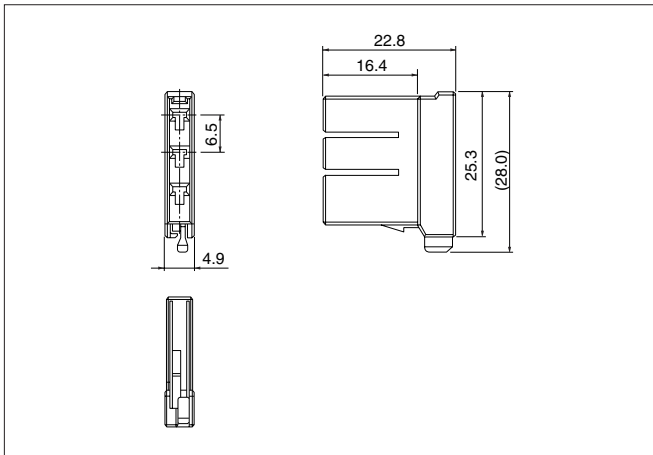
Circuits	Keying	Model No.	Dimensions (mm)				Q'ty / box
			A	B	C	D	
12	—	P12B-F35DK-GFAR	57.0	44.6	33.08	25.4	196

Material and Finish
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black

RoHS compliance
Note: 1. Tightening torque of M3 screw varies depending on screw and material to be tighten as follows.
Steel: 50cN • m max.
Copper, aluminum and plastics: 30cN • m (reference target value)
2. Not CSA/TÜV approved.

COMMON TYPE/J360T

Receptacle housing



Circuits	Keying	Model No.	Q'ty / bag
3	—	F36FTC-03V-K	200

Material

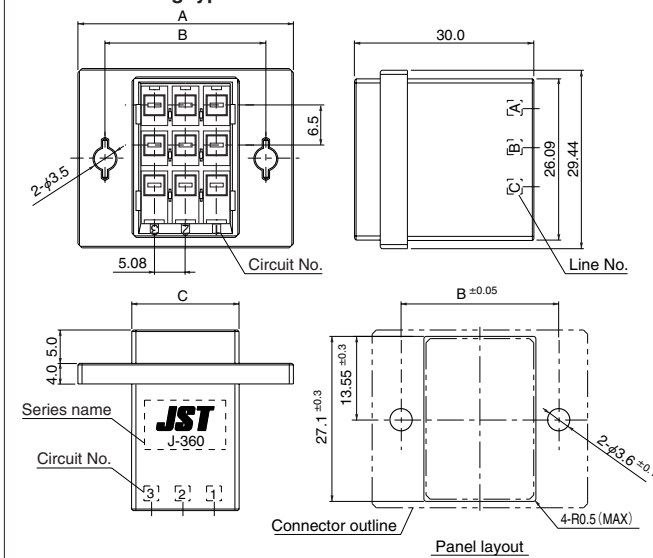
Glass-filled PBT, UL94V-0, black

RoHS compliance

Note: Not CSA/TÜV approved.

Tab housing assembly

• Panel mounting type



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
9	—	P09B-F36TK-GFR	35.0	26.1	17.8	364
18	—	P18B-F36TK-GFR	50.2	41.3	33.1	224

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black

RoHS compliance

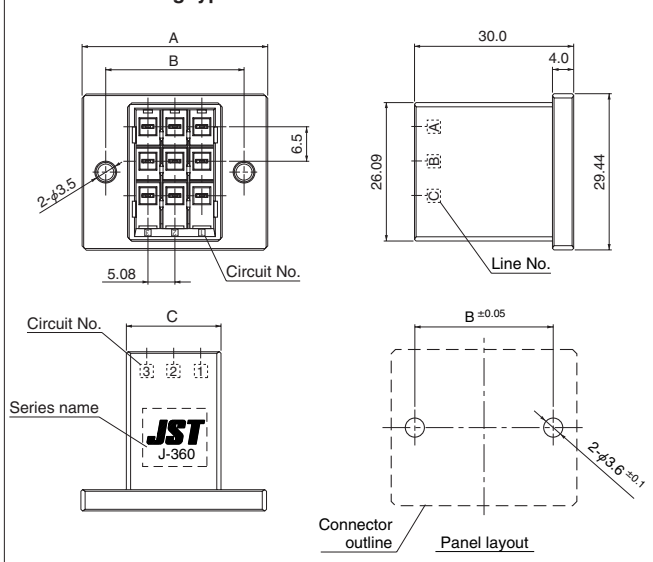
Note: 1. Tightening torque of M3 screw varies depending on screw and material to be tighten as follows.

Steel: 50cN • m max.

Copper, aluminum and plastics: 30cN • m (reference target value)

2. Not CSA/TÜV approved.

• Direct mounting type



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
9	—	P09B-F36TK-GFAR	35.0	26.1	17.8	364
18	—	P18B-F36TK-GFAR	50.2	41.3	33.1	224
24	—	P24B-F36TK-GFANR	60.4	51.5	43.2	168

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black

RoHS compliance

Note: 1. Tightening torque of M3 screw varies depending on screw and material to be tighten as follows.

Steel: 50cN • m max.

Copper, aluminum and plastics: 30cN • m (reference target value)

2. There is no cover of common tab side for 24 circuits.

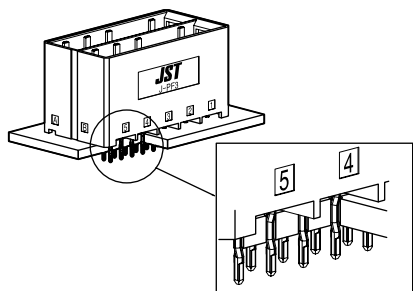
P24B-F36TK-GFANR

N means no cover.

3. The top and bottom for both the logo mark and the series name of 24 circuits reverse against display of 9 or 18 circuits.

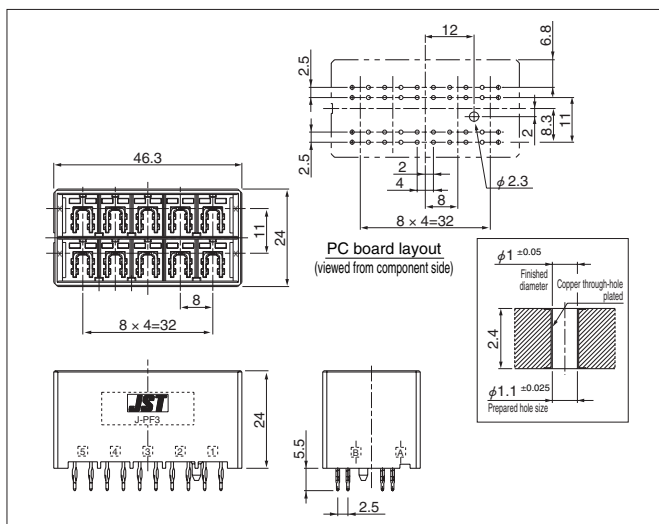
4. Not CSA/TÜV approved.

J300 SERIES/J-PF3 PRESS FIT TYPE



- Press fit contact is adopted.
- Easy PC board layout
- Use the receptacle contact of J300 series

Header Top entry type (Press fit type)



Circuits	Keying	Model No.	Q'ty / box
10	XX	B10B-JPF3MK-GKXXR	96
	YY	B10B-JPF3MK-GKYR	96
	XY	B10B-JPF3MK-GKXYR	96
	YX	B10B-JPF3MK-GKYXR	96

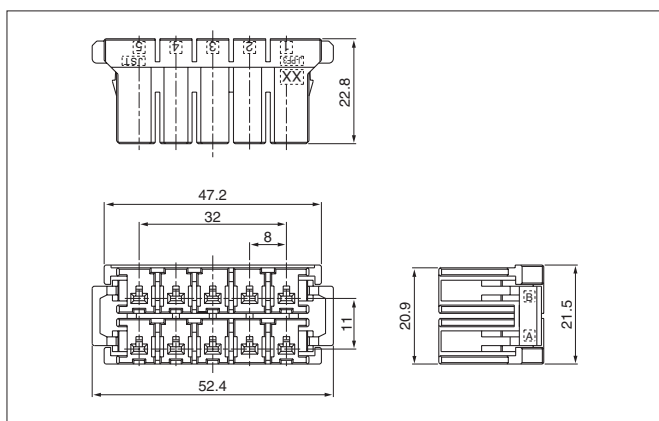
Material and Finish

Post: Copper alloy, gold-plated
Housing: Thermoplastic resin

RoHS compliance

Note: 1. Contact JST for jig for press fit.
2. Not CSA/UL/TÜV approved.

Receptacle housing



Circuits	Keying	Model No.	Q'ty / bag
10	XX	JPF3FMS-10V-KXX	400
	YY	JPF3FMS-10V-KYY	400
	XY	JPF3FMS-10V-KXY	400
	YX	JPF3FMS-10V-KYX	400

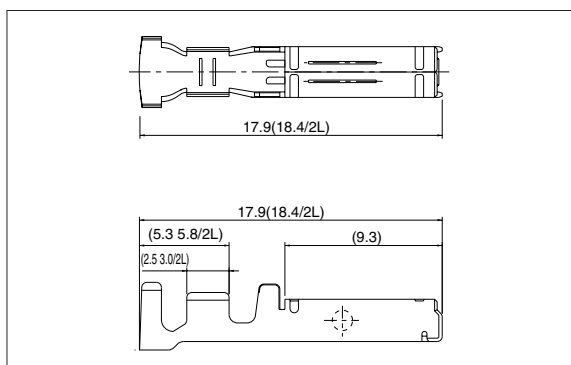
Material

Housing: Thermoplastic resin

RoHS compliance

Note: Not CSA/UL/TÜV approved.

Receptacle contact



Model No.		Applicable wire			Insulation O.D. (mm)	Q'ty	
Strip contact	Loose piece	Nominal	mm ²	AWG#		reel	Box(Loose piece)
SF3F-002GF-P2.0	BF3F-002GF-P2.0	S	0.08~0.20	28~24	0.8~1.4	3,700	1,000
SF3F-01GF-P2.0	BF3F-01GF-P2.0	M	0.20~0.50	24~20	1.2~2.6	3,700	1,000
SF3F-41GF-P2.0	LF3F-41GF-P2.0	L	0.50~1.25	20~16	1.8~2.8	3,200	1,000
*SF3F-71GF-P2.0	*BF3F-71GF-P2.0	2L	1.25~2.0	16~14	2.4~3.4	3,200	1,000

Material and Finish

Copper alloy (superior conductivity), nickel-undercoated, selective gold-plated
tin-plated (reflow treatment)

RoHS compliance

Note: *Marked products are not CSA/TÜV approved.

JFA CONNECTOR/J300 SERIES

Model number identification

Receptacle contact

S F3 F - 41 GF - P 2.0

Form: S...Strip form, B...Loose piece
L...Loose piece with curled barrels

Series name

Kind of terminal: F...Receptacle contact

Applicable wire: 002...AWG #28 ~ #24, 01...AWG #24 ~ #20
41...AWG #20 ~ #16, 71...AWG #16 ~ #14

Surface finish: GF...Nickel-undercoated, 0.38 μ m selective gold-plated
GI...Nickel-undercoated, 0.76 μ m selective gold-plated
T...Tin-plated (Reflow treatment)

Material: P...Copper alloy

Terminal size

Tab contact

S F3 M - 41 GF - M 2.0 N

Form: S...Strip form, B...Loose piece
L...Loose piece with curled barrels

Series name

Kind of terminal: M...Tab contact

Applicable wire: 01...AWG #24 ~ #20, 41...AWG #20 ~ #16
71...AWG #16 ~ #14

Surface finish: GF...Nickel-undercoated, 0.38 μ m selective gold-plated
GI...Nickel-undercoated, 0.76 μ m selective gold-plated
T...Tin-plated (Reflow treatment)

Material: M...Copper alloy

Terminal size

Sequential identification

Receptacle housing

F31 F S S - 03 V - K X

Series name

Type of connector: F...Receptacle housing

Rows: S...Single-row
D...Double-row with 5.08mm line pitch
M...Double-row with 7.62mm line pitch
F...Quadruple-row with 5.08mm line pitch

Configuration: S...Side locking, C...Center locking

No. of circuits: 1 ~ 6, 8, 10, 12, 16, 20

Flammability: V...UL94V-0

Color indication: K...Black, S...White, E...Blue

Keying: X...X-Keying, Y...Y-Keying, XX...XX-Keying
YY...YY-Keying, XY...XY-Keying, Blank...Without Keying No.

Tab housing

F31 M S F - 03 V - K X

Series name

Kind of terminal: M...Tab housing

Rows: S...Single-row, D...Double-row with 5.08mm line pitch
M...Double-row with 7.62mm line pitch

Configuration: F...Free hanging, P...Panel mounting

No. of circuits: 1 ~ 6, 8, 10, 12, 16, 20

Flammability: V...UL94V-0

Color indication: K...Black, S...White, E...Blue

Keying: X...X-Keying, Y...Y-Keying, XX...XX-Keying
YY...YY-Keying, XY...XY-Keying, Blank...Without Keying No.

Header

B 05 B - F31 S K - GG X R

PC board mounting direction:
B...Top entry type
S...Side entry type
BC...Top & center locking
SC...Side & center locking

No. of circuits: 2 ~ 6, 8, 10, 12, 16, 20

Product name: Header

Series name

Rows: S...Single-row
D...Double-row with 5.08mm line pitch
M...Double-row with 7.62mm line pitch
T...Triple-row with 7.62mm line pitch
F...Quadruple-row with 5.08mm line pitch

Color indication: K...Black, S...White, E...Blue

Surface finish: GG...Nickel-undercoated, 0.38 μ m selective gold-plated
GK...Nickel-undercoated, 0.76 μ m selective gold-plated
T...Tin-plated (Reflow treatment)

Keying: X...X-Keying, Y...Y-Keying, XX...XX-Keying, YY...YY-Keying,
XY...XY-Keying, XA...XX-Keying, XB...XXY-Keying,
XC...XYX-Keying, XD...YYX-Keying, Blank...Without Keying No.

Packaging form: R...Tray, M...Magazine stick

Receptacle assembly

03 JFAT - SA Y GF - I

No. of circuits: 3 ~ 6

Series name

Mating type: SA...Normal type, SB...Reverse type

Keying: X...X-Keying, Y...Y-Keying

Surface finish: GF...Nickel-undercoated, 0.38 μ m selective gold-plated

Shape: I ... I type

Tab housing assembly

P 18B-F36T K - GF A R

PC board mounting direction: Panel mounting type

No. of circuits - Assembly: 9, 12, 18, 24

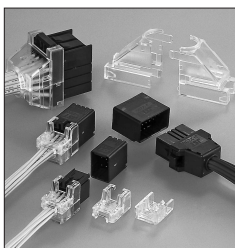
Series name: F36T...J360T, F35D...J350DC

Color indication: K...Black

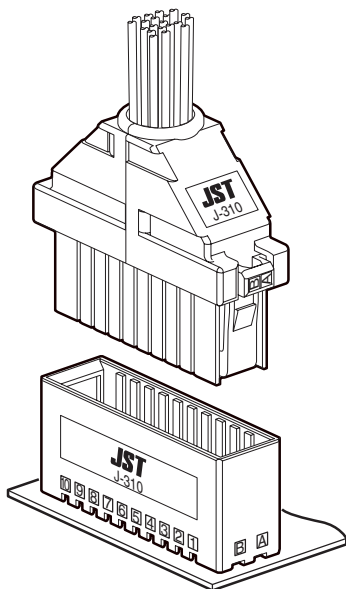
Surface finish: GF...Nickel-undercoated, 0.38 μ m selective gold-plated

Configuration: A...Direct mounting type, AF...Direct mounting without housing cover type,
Blank...Panel mounting type

Packaging form: R...Tray



JFA CONNECTOR/PROTECTOR

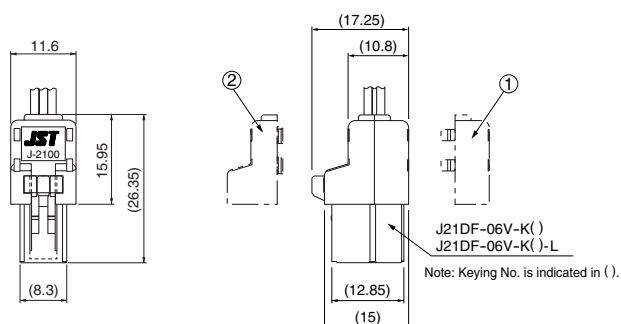


Note: Protector is not UL/CSA/TÜV approved

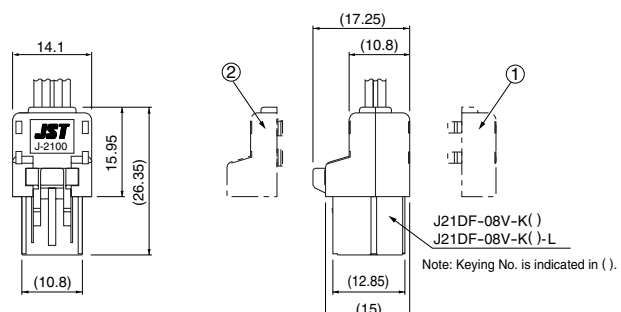
When applying a current to the connector, the protector prevents foreign substances being inserted into mating part from the wiring side. However it has no function of holding the wire securely.

J2000 Series

•J2100 series for 6 circuits



•J2100 series for 8 circuits



No.	Model No.	Color
①	J21PF-06SCA	Transparent
②	J21PF-06SCB	Transparent
Material		
Polycarbonate		

RoHS compliance

No.	Model No.	Color
①	J21PF-08SCA	Transparent
②	J21PF-08SCB	Transparent
Material		
Polycarbonate		

RoHS compliance

JFA CONNECTOR/PROTECTOR

J2000 Series

•J2100 series for 10 circuits

No.	Model No.	Color
①	J21PF-10SCA	Transparent
②	J21PF-10SCB	Transparent
Material		
Polycarbonate		

RoHS compliance

•J2100 series for 16 circuits

No.	Model No.	Color
①	J21PF-16SCA	Transparent
②	J21PF-16SCB	Transparent
Material		
Polycarbonate		

RoHS compliance

•J2100 series for 20 circuits

No.	Model No.	Color
①	J21PF-20SCA	Transparent
②	J21PF-20SCB	Transparent
Material		
Polycarbonate		

RoHS compliance

•J2200 series for 10 circuits

No.	Model No.	Color
①	J22PF-10VK	Black
Material		
Glass-filled PBT		

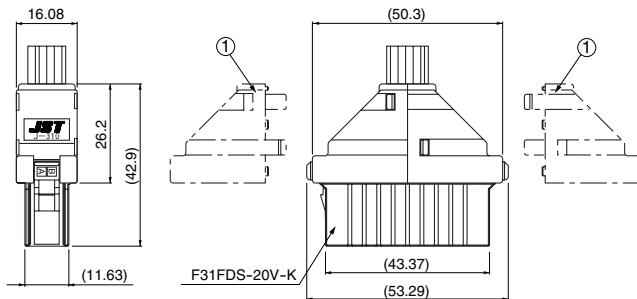
RoHS compliance

Note: Two protectors are used.

JFA CONNECTOR/PROTECTOR

J300 Series

•J310D series for 20 circuits



No.	Model No.	Color
①	F31PFD-20VK	Black
①	F31PFD-20SC	Transparent

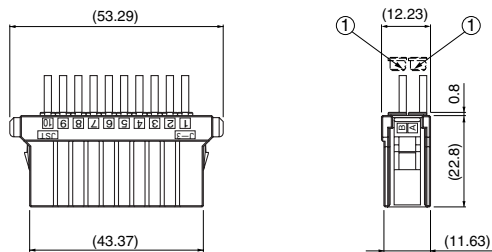
Material

Black: Glass-filled PBT
Transparent: Polycarbonate

RoHS compliance

Note: Two protectors of the same color are used.

•J310D series / Embedding-type protector for 8, 10 circuits



No.	Model No.	Color
①	F31PFS-10KU	Black

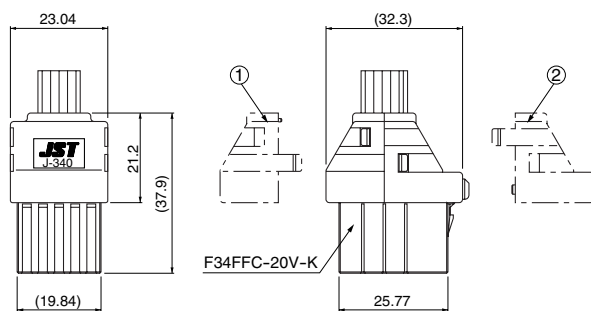
Material

Glass-filled PBT

RoHS compliance

Note: This protector is cut and used for each number of circuits.

•J340F series for 20 circuits



No.	Model No.	Color
①	F34PFF-20VKA	Black
	F34PFF-20SCA	Transparent
②	F34PFF-20VKB	Black
	F34PFF-20SCB	Transparent

Material

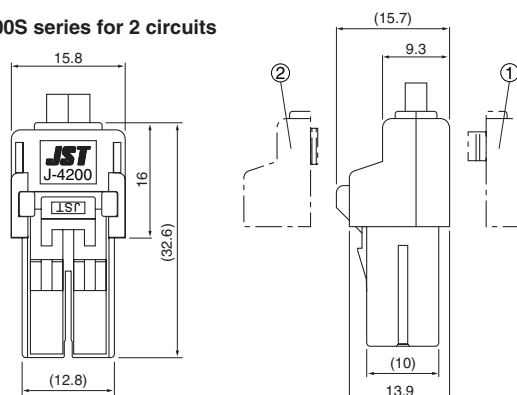
Black: Glass-filled PBT
Transparent: Polycarbonate

RoHS compliance

Note: Both 1 and 2 protectors in the same color are used.

J4000 Series

•J4200S series for 2 circuits



No.	Model No.	Color
①	J42PF-02SCA	Transparent
②	J42PF-02SCB	Transparent

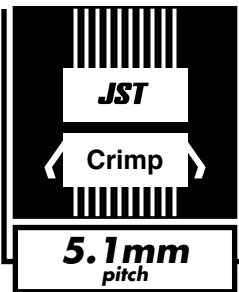
Material

Polycarbonate

RoHS compliance

(Patent pending)

When applying a current to the connector, the protector prevents foreign substances being inserted into mating part from the wiring side. However it has no function of holding the wire securely.

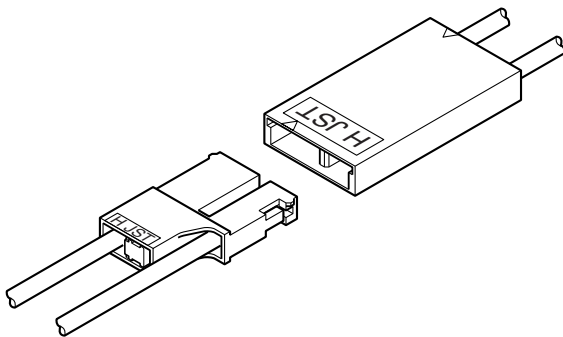


BHT CONNECTOR

Disconnectable Crimp style Wire-to-wire connectors



Connector for liquid crystal display back light lamps.



Features

- **High withstanding voltage**

With enough creep distance at the high voltage side, voltage rating can be as high as 1,500V.

- **Applicable either to wire-to-wire connection or board-to-wire connection**

Socket housing is commonly used for wire-to-wire version and for board-to-wire version BHT series. Pin contact is the same as that for the wire-to-wire BHS connector.

Specifications

- Current rating: 1.0A AC, DC
- Voltage rating: 1,500V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 4,000V AC/minute
- Applicable wire: AWG #28 to #24
0.08 to 0.22mm²
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

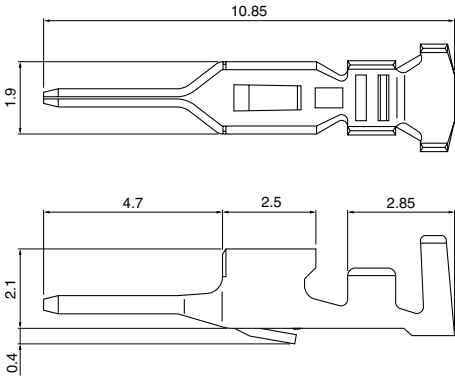
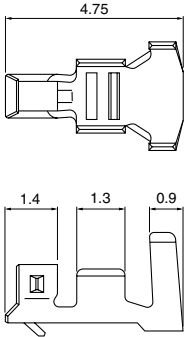
Standards

Recognized E60389

Certified LR20812

BHT CONNECTOR

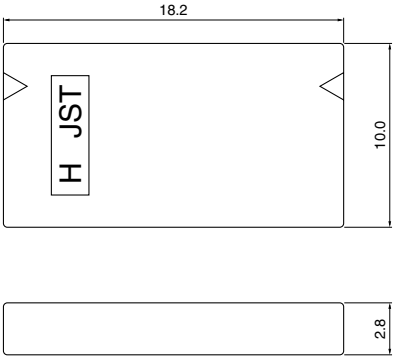
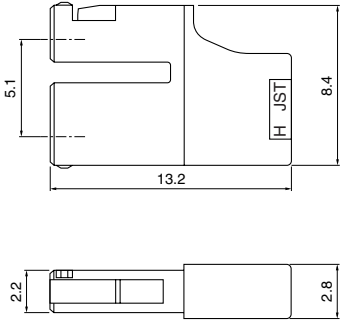
Contact

Pin contact	Socket contact
	

Model No.		Applicable wire		Insulation O.D. (mm)		Q'ty / reel	
Pin contact	Socket contact	mm²	AWG #	Pin contact	Socket contact	Pin contact	Socket contact
SBHSM-002T-P0.5	SBHT-002T-P0.5	0.08 to 0.22	28 to 24	0.9 to 1.8	0.9 to 1.7	5,000	10,000
Material and Finish							
Phosphor bronze, tin-plated (reflow treatment)							

RoHS compliance

Housing

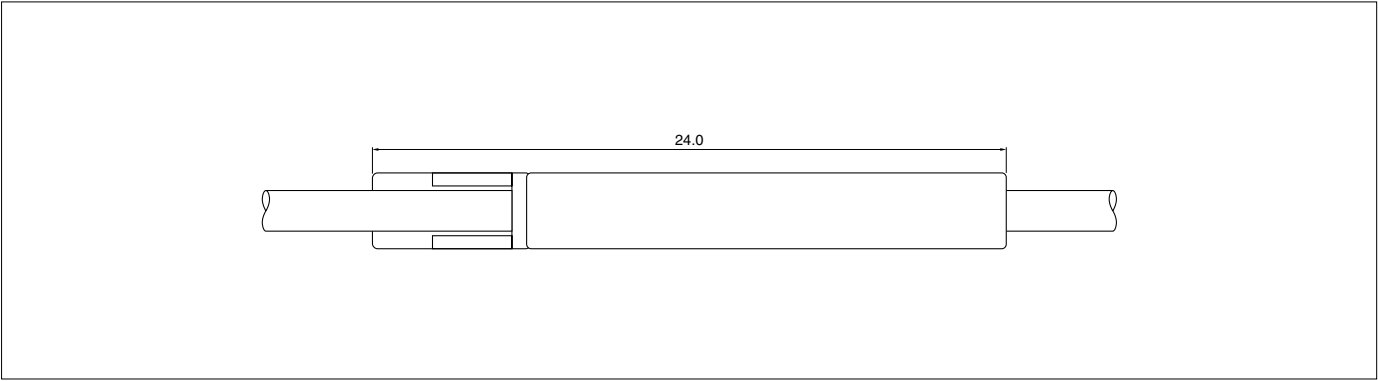
Receptacle housing	Socket housing
	

Model No.		Q'ty / bag	
Receptacle housing	Socket housing	Receptacle housing	Socket housing
BHTMR-02VS	BHTR-02VS	500	1,000
Material			
PBT, UL94V-0, natural (white)			

RoHS compliance

BHT CONNECTOR

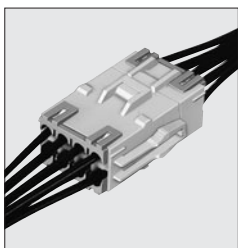
Assembly layout



Crimping machine, Applicator

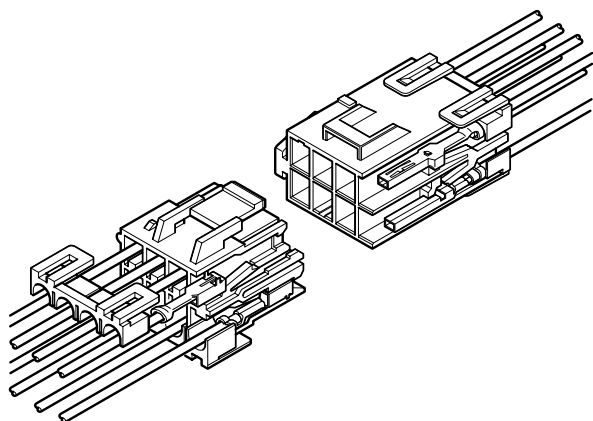
Contact	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies
SBHSM-002T-P0.5	AP-K2N	MKS-L	MK/SBHSM-002-05	APLMK SBHSM002-05

Contact	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies
SBHT-002T-P0.5	AP-K2N	MKS-L	MK/SBHT-002-05	APLMK SBHT002-05



VL CONNECTOR

6.2mm pitch/Disconnectable Crimp style Wire-to-wire connectors



The VL connector is a 6.2mm pitch wire-to-wire connector designed for circuits requiring up to 20A (1 or 2-circuit with AWG #12 wire).

- Housing lances for contact retention
- Secondary retainer
- Suited for circuits with high power requirements
- Panel lock construction

Standards

Recognized E60389

Certified LR20812

R9351103

Specifications

- Current rating: 20 A AC, DC max.
- Voltage rating: 600 V AC, DC max. (300 V in accordance with the Electrical Appliance and Material Safety Law in Japan)
- Temperature range: -25°C to +90°C (including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 7 mΩ max. After environmental tests/ 10 mΩ max.
- Insulation resistance: 1,000 MΩ min.
- Withstanding voltage: 2,000 VAC/minute
- Applicable wire: AWG #22 to #12 0.3 to 3.5 mm²
- Applicable panel thickness: 0.5 to 2.0 mm

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

* Compliant with RoHS.

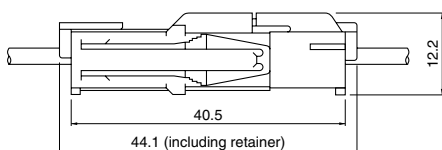
Note: The current rating varies depending on the number of circuits and the wire size used in each connector. The table below lists the current rating as a function of the number of circuits and the wire size.

Current unit: A

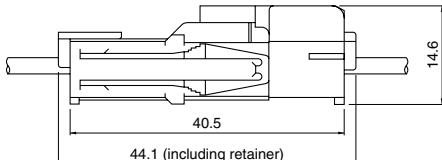
Circuits	Wire size (AWG)					
	#12	#14	#16	#18	#20	#22
1	20	15	10	8	6	4
2	20	15	10	8	6	4
3	19	14	9	8	6	4
4	18	13	9	7	6	4
6	16	12	8	7	5	3
8	16	11	7	6	5	3
12	15	10	7	6	4	3

(2, 3 and single-row 4 circuits)

<Inner-housing lock>

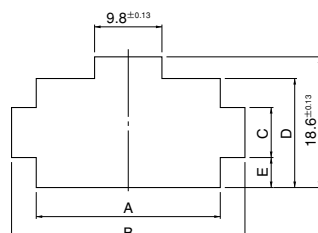
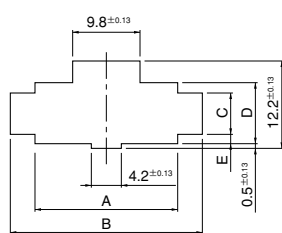


<Outer-housing lock>



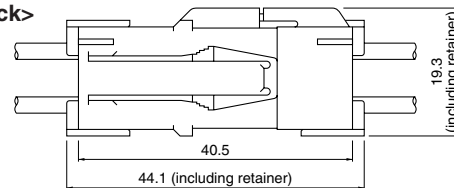
Shape I

Shape II

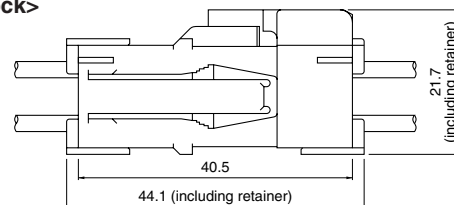


(4, 6, 8 and 12 circuits)

<Inner-housing lock>



<Outer-housing lock>



Circuits	Receptacle housing Model No.	Panel hole shape	Panel hole dimensions (mm)					Applicable panel thickness (mm)
			General tolerance A, B, D: ±0.13 C, E: ±0.1					
2	VLR-02V	I	13.8	20.6	5.7	8.5	1.4	0.5~2.0
3	VLR-03V	I	20.0	26.8	5.7	8.5	1.4	
4	VLR-04V	II	13.8	20.6	7.0	15.4	4.2	
4 (Single-row)	VLR-04VN	I	26.2	33.0	5.7	8.5	1.4	
6	VLR-06V	II	20.0	26.8	7.0	15.4	4.2	
8	VLR-08V	II	26.2	33.0	7.0	15.4	4.2	
12	VLR-12V	II	38.9	45.4	7.0	15.4	4.2	

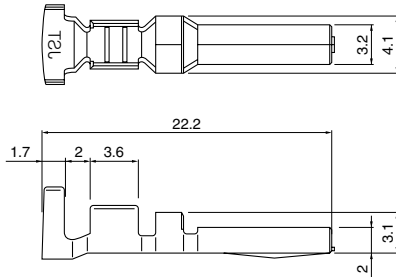
Note: 1. Punch holes in the panel according to the figures and table shown above. Burrs must be removed.

2. The strength of the panel must be considered when punching two or more holes.

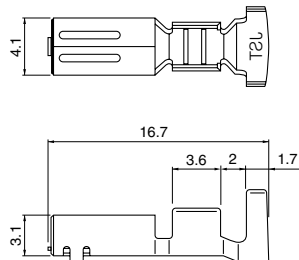
3. The connector must be inserted from the same side as the hole is punched.

Contact

Pin contact



Socket contact



Model No.		Applicable wire		Insulation	Q'ty / reel
Pin contact	Socket contact	mm ²	AWG #	O.D. (mm)	
*SVM-42T-P2.0	*SVF-42T-P2.0	0.3~1.25	22~16	1.7~3.2	2,000
		0.3+0.3~ 0.5+0.75	22+22~ 20+18	1.7+1.7~ 2.5+2.7	
SVM-61T-P2.0	SVF-61T-P2.0	0.5~2.0	20~14	1.9~3.4	
		0.5+0.5~ 0.75+1.25	20+20~ 18+16	1.9+1.9~ 2.1+2.7	
SVM-81T-P2.0	SVF-81T-P2.0	3.5	12	4.1	

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

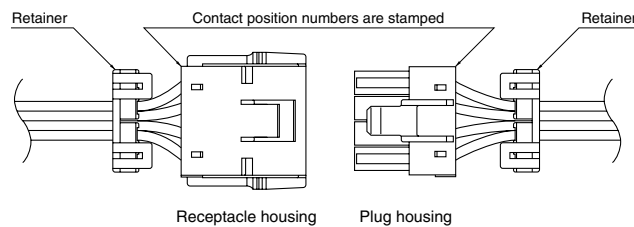
RoHS compliance

Note: 1. Contact JST for special products.

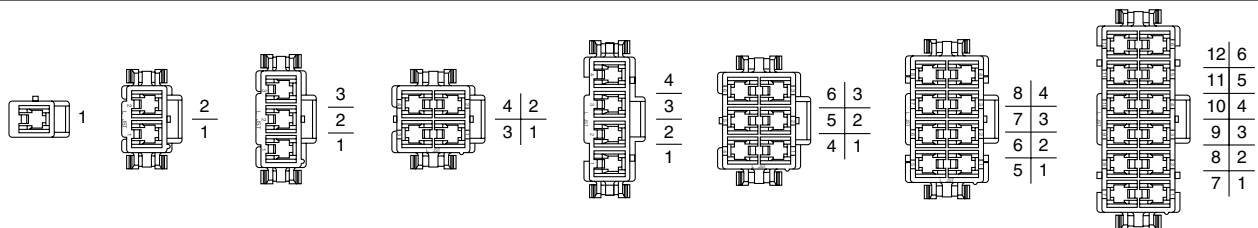
2. *Marked products are not TÜV approved.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SVM-42T-P2.0	AP-K2N	MKS-L	MK/SVF/M-42-20	APLMK SVF/M42-20
SVF-42T-P2.0		—	—	—
SVM-61T-P2.0		MKS-L	MK/SVF/M-61-20	APLMK SVF/M61-20
SVF-61T-P2.0		—	—	—
SVM-81T-P2.0		MKS-L	MK/SVF/M-81-20	APLMK SVF/M81-20
SVF-81T-P2.0		—	—	—

Contact position location numbers

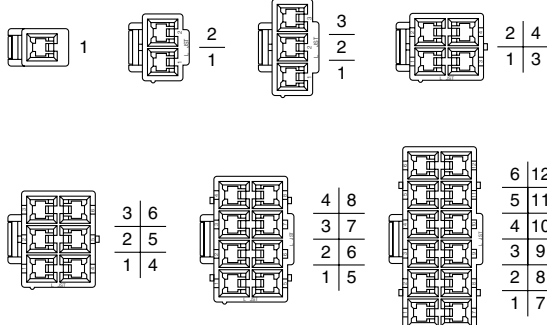


Receptacle housing

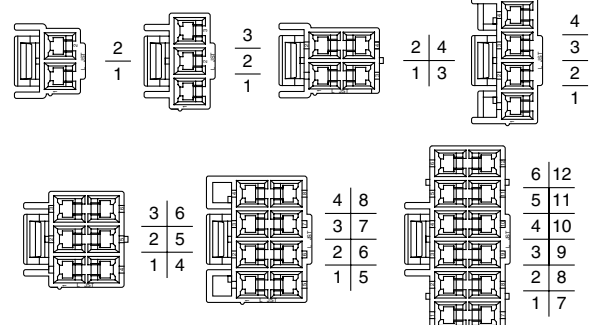


Plug housing

<Inner-housing lock>



<Outer-housing lock>



VL CONNECTOR

Housing

Material: Housing...PA 66, UL94V-0, white
Retainer...Glass-filled PA 66, UL94V-0, ivory

Circuits	Voltage rating	Current rating	Receptacle housing (for pin contact)	Plug housing (for socket contact)	Retainer
1	600V	20A	* VLR-01VF (Without panel product) 	VLP-01V 	VLS-01V
2	600V	20A	VLR-02V * VLR-02VF (Without panel lock product) 	VLP-02V VLP-02V-1 	VLS-02V (commonly used for 2-circuit housing and 4-circuit housing)
3	600V	19A	VLR-03V 	VLP-03V VLP-03V-1 	VLS-03V (commonly used for 3-circuit housing and 6-circuit housing)
4	600V	18A	VLR-04V * VLR-04VF (Without panel lock product) VLR-04VN 	VLP-04V VLP-04V-1 VLP-04VN-1 	VLS-02V VLS-08V (commonly used for 4-circuit housing and 8-circuit housing)

RoHS compliance

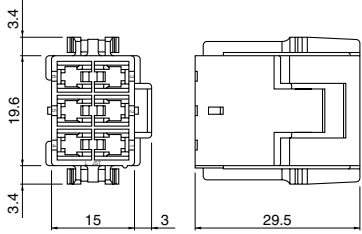
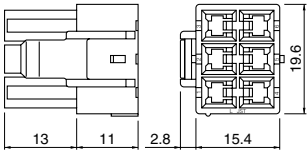
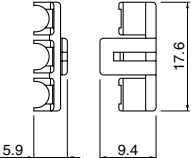
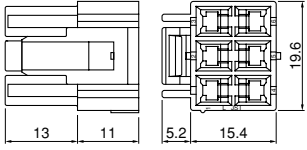
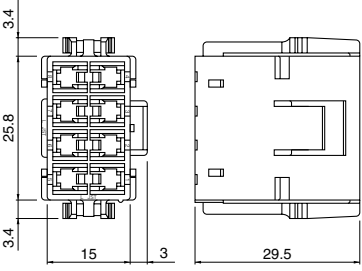
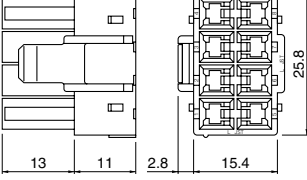
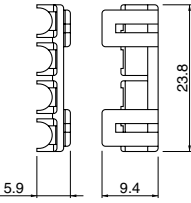
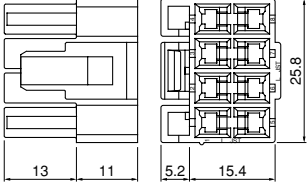
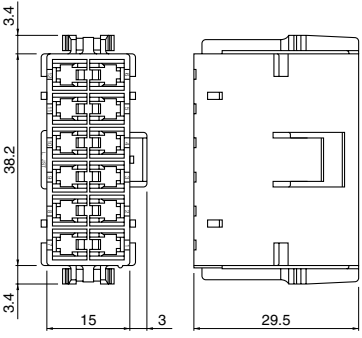
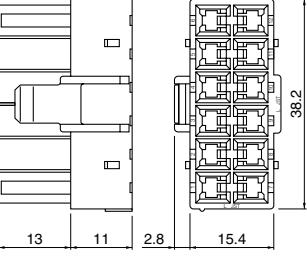
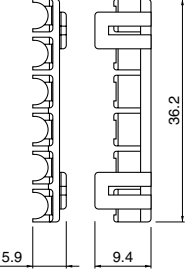
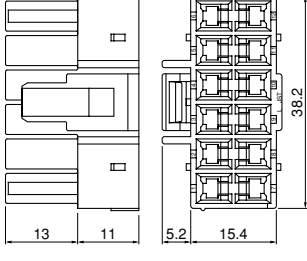
Note: 1. Contact JST for special products.

2. *Marked products are not TÜV approved.

VL CONNECTOR

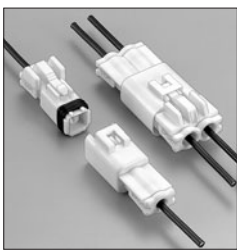
Housing

Material: Housing...PA 66, UL94V-0, white
Retainer...Glass-filled PA 66, UL94V-0, ivory

Circuits	Voltage rating	Current rating	Receptacle housing (for pin contact)		Plug housing (for socket contact)		Retainer	
6	600V	16A	VLR-06V 	Q'ty / bag 500	VLP-06V 	Q'ty / bag 500	VLS-03V (commonly used for 3-circuit housing and 6-circuit housing) 	Q'ty / bag 1,000
					VLP-06V-1 			
8	600V	16A	VLR-08V 	Q'ty / bag 100	VLP-08V 	Q'ty / bag 200	VLS-08V (commonly used for 4-circuit housing and 8-circuit housing) 	Q'ty / bag 1,000
					VLP-08V-1 			
12	600V	15A	VLR-12V 	Q'ty / bag 100	VLP-12V 	Q'ty / bag 100	VLS-12V 	Q'ty / bag 1,000
					VLP-12V-1 			

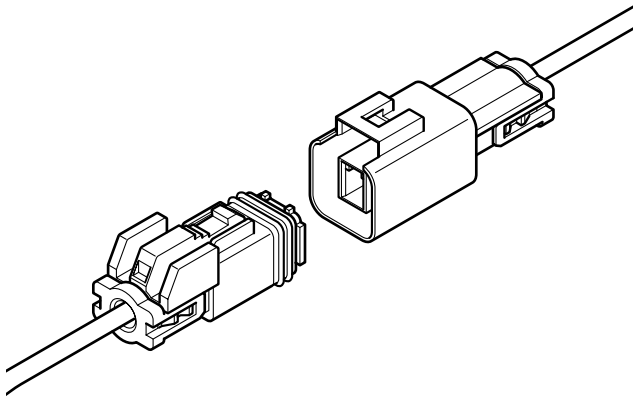
RoHS compliance

Note: Contact JST for special products.



MWP CONNECTOR

7.0mm pitch/Disconnectable Crimp style Wire-to-wire connectors



Waterproof wire-to-wire connector for electric power supply.

- Low insertion force contact
- Housing lance
- Inner-housing lock
- Slider locking mechanism
- Interchangeability

Specifications

- Current rating: 7A AC, DC max.
- Voltage rating: 300V AC, DC max.
- Temperature range: -40°C to +105°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/7m Ω max.
After environmental testing/10m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #26 to #18
0.13 to 0.75mm²
Insulation O.D./2.1 to 2.5mm
- Waterproof grade: Grade 4 ingress protection of JIS C 0920(IEC 60529 IPX4)
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

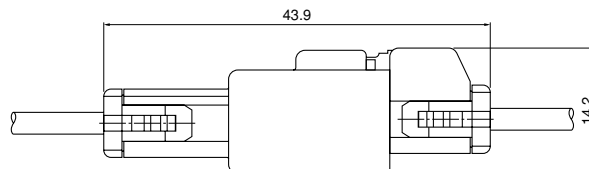
Note: The current rating varies depending on the number of circuits and the wire size used in each connector.

The table below lists the current rating as a function of the number of circuits and wire size.

Current unit: A

Circuits	Wire size (AWG)				
	#18	#20	#22	#24	#26
1	7	5	4	3	2
2	7	5	4	3	2

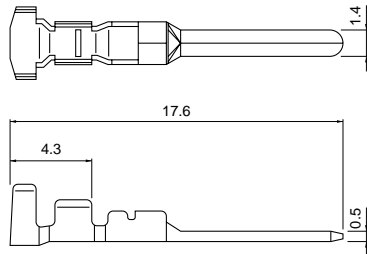
Assembly layout



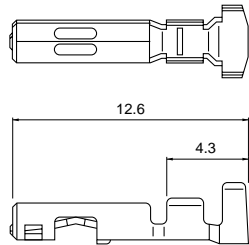
MWP CONNECTOR

Contact

Pin contact



Socket contact



Model No.		Applicable wire		Insulation O.D. (mm)	Q'ty/ reel
Pin contact	Socket contact	mm ²	AWG #		
SSM-01T-P1.4	SSF-01T-P1.4	0.13 ~ 0.5	26 ~ 20	2.1 ~ 2.5	6,000
SSM-21T-P1.4	SSF-21T-P1.4	0.3 ~ 0.75	22 ~ 18		

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Note: Contact JST for special products.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SSM-01T-P1.4	AP-K2N	MKS-L	MK/SSF/M-01-14	APLMK SSF/M01-14
SSF-01T-P1.4		—	—	—
SSM-21T-P1.4		MKS-L	MK/SSF/M-21-14	APLMK SSF/M21-14
SSF-21T-P1.4		—	—	—

Housing

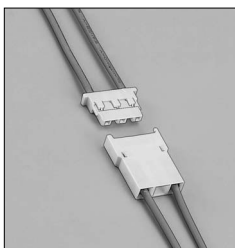
Material: PBT, UL94V-0, white

Circuits	Voltage rating	Current rating	Receptacle housing(for socket contact)		Plug housing(for pin contact)	
			Model	Q'ty/ box	Model	Q'ty/ box
1	300V	7A	01R-MWPV-SSRR 	252	01P-MWPV-SSR 	228
2	300V	7A	02R-MWPV-SSRR 	144	02P-MWPV-SSR 	144

RoHS compliance

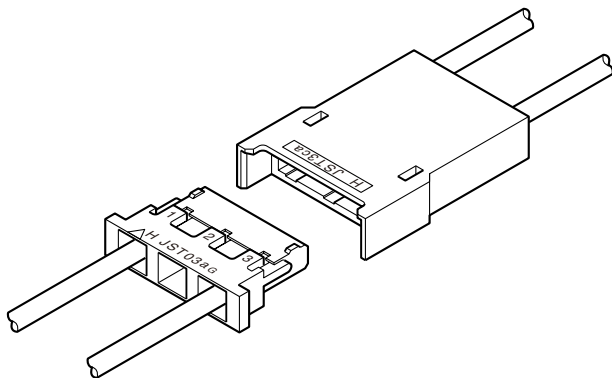
Note: 1. Model ()P-MWPV-SSR comes with the wire end seal and slider.

2. Model ()R-MWPV-SSRR comes with the rubber ring, wire end seal and slider.



BHM CONNECTOR

4.0/8.0mm pitch/Disconnectable Crimp style Wire-to-wire connectors



Wire-to-wire version connectors, designed for liquid crystal display back light lamps.

- **Contact lances**
- **Box shaped housing**

Specifications

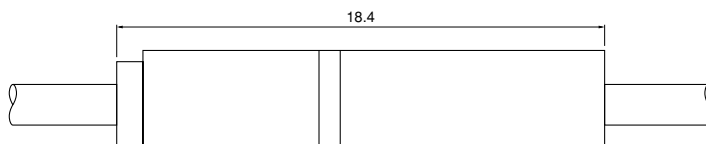
- Current rating: 1.0A AC, DC max.
- Voltage rating: 600V AC, DC max.
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,800V AC/minute
- Applicable wire: AWG #28 to #22
0.08 to 0.33mm²
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

 Recognized E60389

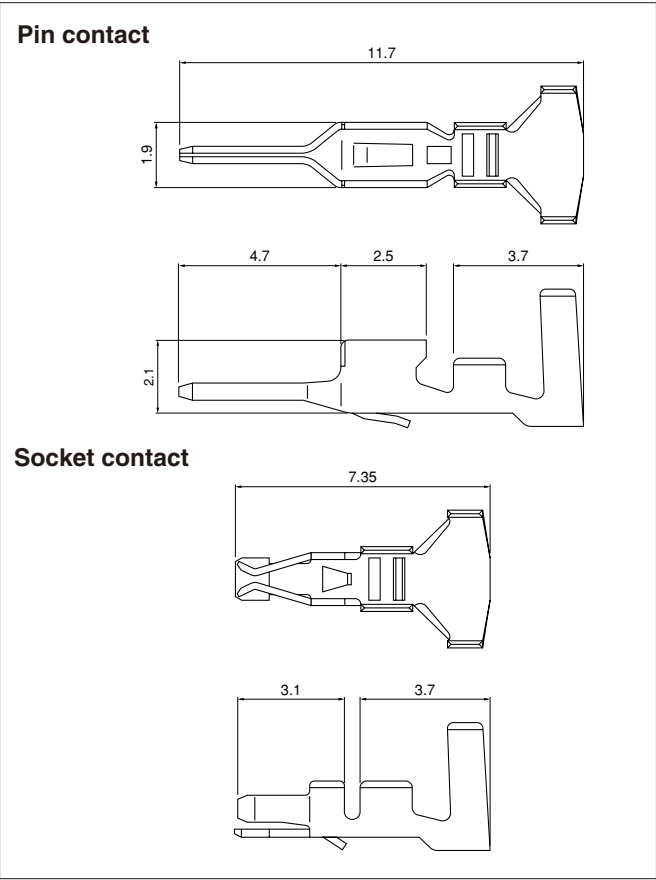
 Certified LR20812

Assembly layout



BHM CONNECTOR

Contact



Model No.		Applicable wire		Insulation O.D. (mm)	Q'ty / reel
Pin contact	Socket contact	mm ²	AWG #		
SBHM-001T-P0.5	SBH-001T-P0.5	0.08~0.33	28~22	1.6~2.4	4,000

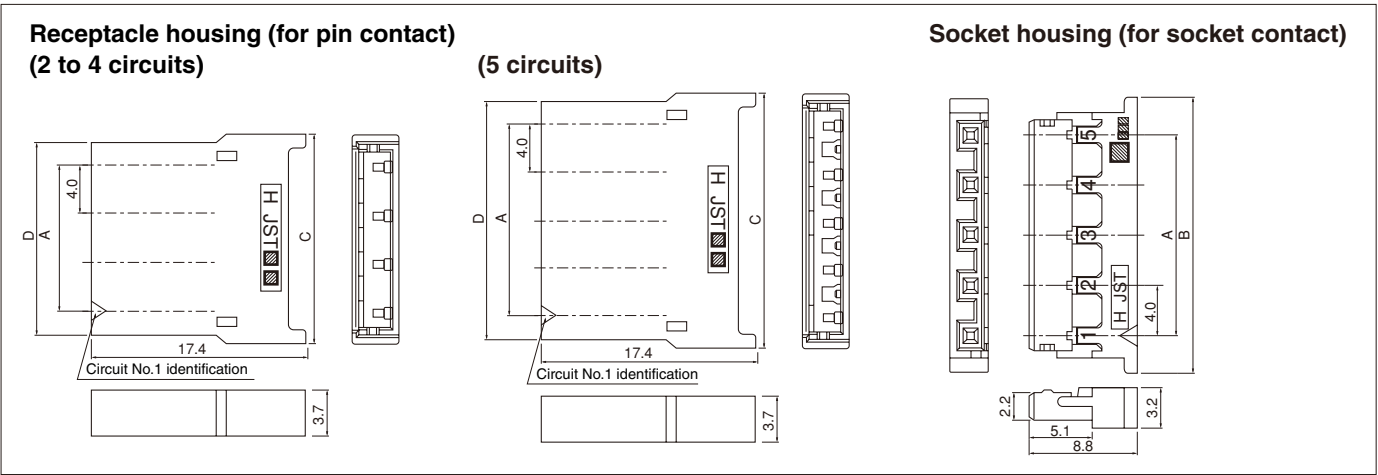
Material and Finish	
Phosphor bronze, tin-plated (reflow treatment)	

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SBHM-001T-P0.5	AP-K2N	MKS-L	MK/SBH/M-001-05	APLMK SBH/M001-05
		*MKS-SC1-1	SC/SBH/M-001-05	APLSC SBH/M001-05
SBH-001T-P0.5		MKS-L	MK/SBH/M-001-05	APLMK SBH/M001-05
		*MKS-SC1-1	SC/SBH/M-001-05	APLSC SBH/M001-05

Note: *Strip-crimp applicator

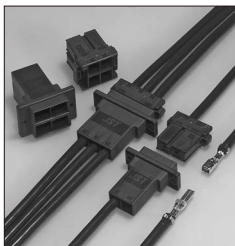
Housing



Circuits	Model No.		Dimensions (mm)				Q'ty / bag
	Receptacle housing	Socket housing	A	B	C	D	
2	BHMR-02V	BHR-02VS-1	4.0	9.8	9.1	7.8	1,000
3	BHMR-03V	BHR-03VS-1	8.0	13.8	13.1	11.8	1,000
4	BHMR-04V	BHR-04VS-1	12.0	17.8	17.1	15.8	1,000
5	BHMR-05V-R	BHR-05VS-1	16.0	21.8	21.1	19.8	1,000

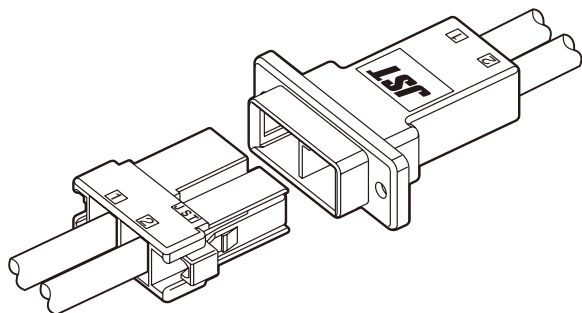
Material	
PA 66, UL94V-0, natural (white)	

RoHS compliance
Note: BHMR-05V-R and BHR-05VS-1 have ribs against prying.



JFA CONNECTOR J5000 SERIES

11.0mm pitch/Disconnectable Crimp style Wire-to-wire connectors



One touch mating and unmating connector corresponding to high current. Modular type is also available.

- **High current capacity**
- **Easy mating connector**

Specifications

- Current rating: Refer to the following matrix table.
- Voltage rating: 600V AC, DC
- Temperature range: -55°C to +105°C
(including temperature rise in applying electrical current)
- Withstanding voltage: 3.0kV AC/minute
- Applicable wire: AWG #16 to #8 (1.25 to 8.0mm²)

*Contact JST for details.

*Compliant with RoHS.

Current rating

Unit: A

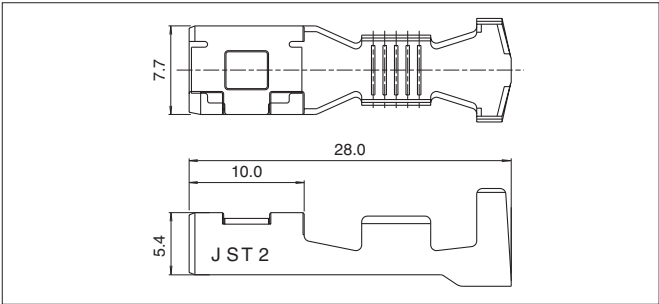
Circuits	Wire size (AWG)				
	#8	#10	#12	#14	#16
1	50	37	30	24	20
2	45	34	28	22	18
3	43	34	27	21	17
4	42	32	26	20	16
6	40	32	26	20	16

Standards

 Recognized E60389

JFA CONNECTOR/J5000 SERIES

Receptacle contact



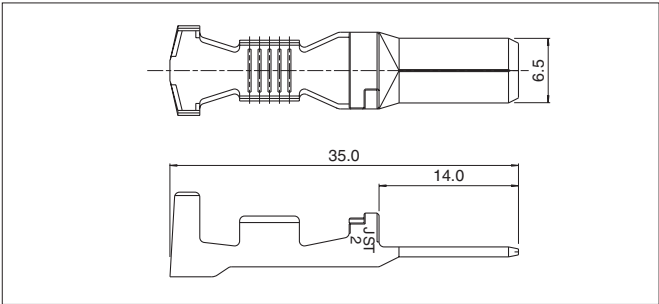
Model No.		Applicable wire			Insulation O.D.		Q'ty	
Strip contact	Loose piece	Nominal	mm ²	AWG#	(mm)		reel	Box(Loose piece)
SJ5F-71GF-M6.5	BJ5F-71GF-M6.5	S	1.25~2.0	16~14	3.1~4.0		800	200
SJ5F-81GF-M6.5	LJ5F-81GF-M6.5	M	3.5 ~5.5	12~10	4.0~5.3		600	150
SJ5F-91GF-M6.5	LJ5F-91GF-M6.5	L	8.0	8	7.2~8.2		450	100

Material and Finish

Copper alloy (superior conductivity), nickel-undercoated, selective gold-plated

RoHS compliance

Tab contact



Model No.		Applicable wire			Insulation O.D.		Q'ty	
Strip contact	Loose piece	Nominal	mm ²	AWG#	(mm)		reel	Box(Loose piece)
SJ5M-71GF-M6.5	BJ5M-71GF-M6.5	S	1.25~2.0	16~14	3.1~4.0		800	200
SJ5M-81GF-M6.5	LJ5M-81GF-M6.5	M	3.5 ~5.5	12~10	4.0~5.3		600	150
SJ5M-91GF-M6.5	LJ5M-91GF-M6.5	L	8.0	8	7.2~8.2		450	100

Material and Finish

Copper alloy (superior conductivity), nickel-undercoated, selective gold-plated

RoHS compliance

Crimping machine, Applicator

Strip contact Model No.	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies
SJ5F-71GF-M6.5	AP-K2N	MKS-L-J5	MK/SJ5F/M-71-65	APLMK SJ5F/M71-65
SJ5M-71GF-M6.5			MK/SJ5F/M-81-65	APLMK SJ5F/M81-65
SJ5F-81GF-M6.5				
SJ5M-81GF-M6.5	AP-K6A	MKS-L-J5L	MK/SJ5F/M-91-65	APLMK SJ5F/M91-65
SJ5F-91GF-M6.5				
SJ5M-91GF-M6.5				

Loose piece	Hand crimp tools
BJ5F-71GF-M6.5	YRF-888
BJ5M-71GF-M6.5	
LJ5F-81GF-M6.5	
LJ5M-81GF-M6.5	YRF-889
LJ5F-91GF-M6.5	
LJ5M-91GF-M6.5	Battery operated type * BCT-860JFA

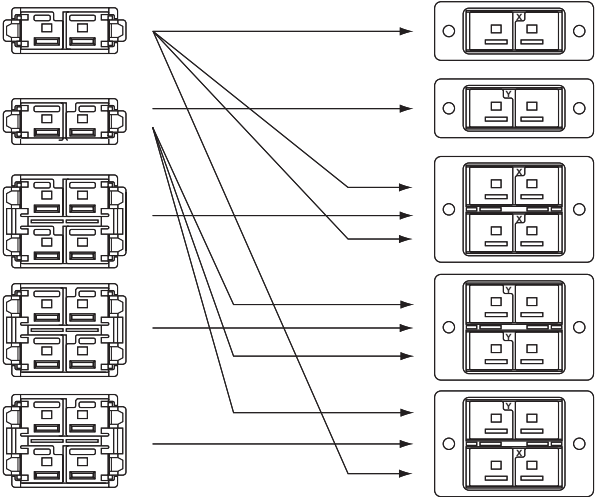
* Extraction tool for J5000 series: EJ-JFAJ5

* Contact JST for details.

List of combinations

The combination of the J5200 series.

Receptacle housing	
Single-row 2, 3 circuits (J5200S)	X type J5FS-■■■V-KX
	Y type J5FS-■■■V-KY
Double-row 4, 6 circuits (J5200M)	XX type J5FM-■■■V-KXX
	YY type J5FM-■■■V-KYY
	XY type J5FM-■■■V-KXY

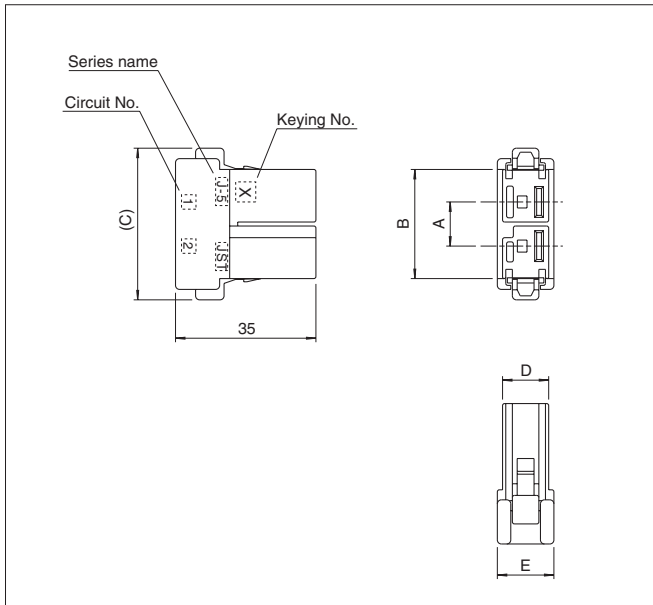


Tab housing	
Single-row 2, 3 circuits (J5200S)	X type J5MSP-■■■V-KX
	Y type J5MSP-■■■V-KY
Double-row 4, 6 circuits (J5200M)	XX type J5MMP-■■■V-KXX
	YY type J5MMP-■■■V-KYY
	XY type J5MMP-■■■V-KXY

Note: Number of circuits is indicated in ■■■.

J5000 SERIES/J5200

Receptacle housing



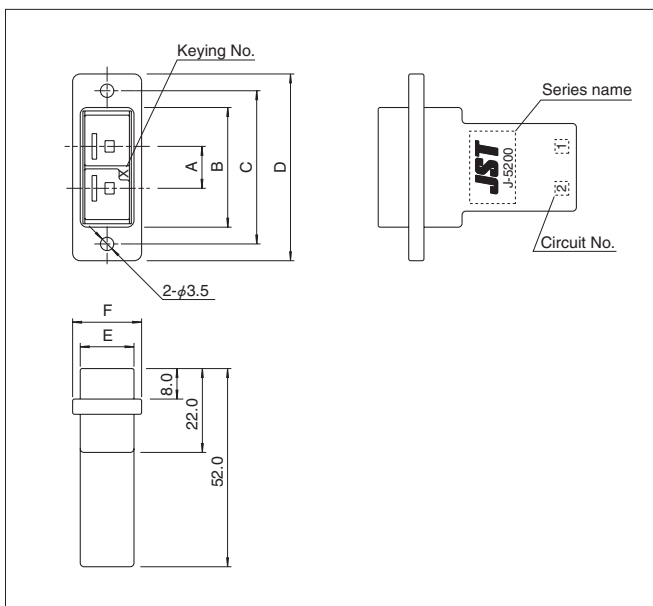
Circuits	Keying	Model No.	Dimensions (mm)					Q'ty / box
			A	B	C	D	E	
2	X	J5FS-02V-KX	11.0	27.2	37.8	11.5	14.1	50(bag)
	Y	J5FS-02V-KY	11.0	27.2	37.8	11.5	14.1	50(bag)
3	X	J5FS-03V-KX	22.0	38.2	48.8	11.5	14.1	50(bag)
	Y	J5FS-03V-KY	22.0	38.2	48.8	11.5	14.1	50(bag)
4	XX	J5FM-04V-KXX	11.0	27.2	37.8	26.0	28.6	180
	YY	J5FM-04V-KYY	11.0	27.2	37.8	26.0	28.6	180
	XY	J5FM-04V-KXY	11.0	27.2	37.8	26.0	28.6	180
6	XX	J5FM-06V-KXX	22.0	38.2	48.8	26.0	28.6	126
	YY	J5FM-06V-KYY	22.0	38.2	48.8	26.0	28.6	126
	XY	J5FM-06V-KXY	22.0	38.2	48.8	26.0	28.6	126
10	XX	J5FM-10V-KXX	44.0	60.2	70.8	26.0	28.6	—
	YY	J5FM-10V-KYY	44.0	60.2	70.8	26.0	28.6	—
	XY	J5FM-10V-KXY	44.0	60.2	70.8	26.0	28.6	—

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing (Panel mounting type)



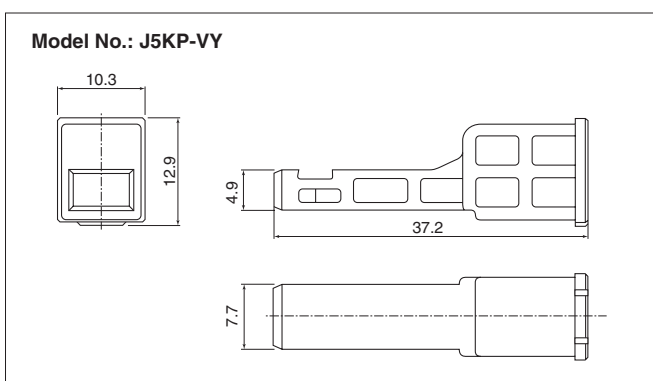
Circuits	Keying	Model No.	Dimensions (mm)						Q'ty / box
			A	B	C	D	E	F	
2	X	J5MSP-02V-KX	11.0	31.4	40.2	49.0	14.1	18.1	40(bag)
	Y	J5MSP-02V-KY	11.0	31.4	40.2	49.0	14.1	18.1	40(bag)
3	X	J5MSP-03V-KX	22.0	42.4	51.2	60.0	14.1	18.1	40(bag)
	Y	J5MSP-03V-KY	22.0	42.4	51.2	60.0	14.1	18.1	40(bag)
4	XX	J5MMP-04V-KXX	11.0	31.4	40.2	49.0	28.6	32.6	72
	YY	J5MMP-04V-KYY	11.0	31.4	40.2	49.0	28.6	32.6	72
	XY	J5MMP-04V-KXY	11.0	31.4	40.2	49.0	28.6	32.6	72
6	XX	J5MMP-06V-KXX	22.0	42.4	51.2	60.0	28.6	32.6	63
	YY	J5MMP-06V-KYY	22.0	42.4	51.2	60.0	28.6	32.6	63
	XY	J5MMP-06V-KXY	22.0	42.4	51.2	60.0	28.6	32.6	63
10	XX	J5MMP-10V-KXX	44.0	64.4	73.2	82.0	28.6	32.6	—
	YY	J5MMP-10V-KYY	44.0	64.4	73.2	82.0	28.6	32.6	—
	XY	J5MMP-10V-KXY	44.0	64.4	73.2	82.0	28.6	32.6	—

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

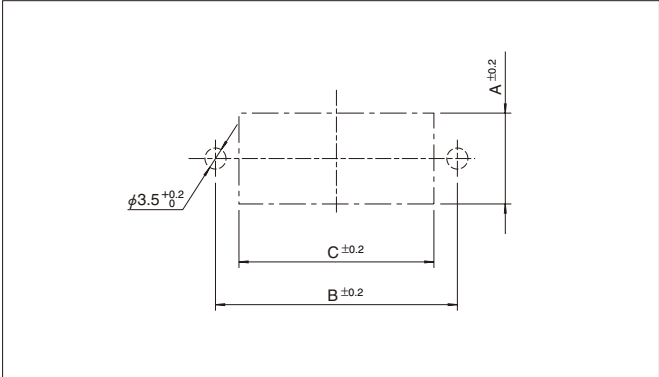
Keying plug



RoHS compliance

JFA CONNECTOR/J5000 SERIES

Panel layout



Circuits	Dimensions (mm)		
	A	B	C
2	15.1	40.2	32.4
3	15.1	51.2	43.4
4	29.6	40.2	32.4
6	29.6	51.2	43.4
10	29.6	65.4	73.2

Model number identification

Receptacle contact

S J5 F - 71 GF - M 6.5

Form: S...Strip form, B...Loose piece
L...Loose piece with curled barrels

Series name

Kind of terminal: F...Receptacle contact

Applicable wire: 71...AWG #16 ~ #14, 81...AWG #12 ~ #10,
91...AWG #8

Surface finish: GF...Nickel-undercoated, selective gold-plated

Material: M...Copper alloy

Terminal size

Tab contact

S J5 M - 71 GF - M 6.5

Form: S...Strip form, B...Loose piece
L...Loose piece with curled barrels

Series name

Kind of terminal: M...Tab contact

Applicable wire: 71...AWG #16 ~ #14, 81...AWG #12 ~ #10,
91...AWG #8

Surface finish: GF...Nickel-undercoated, selective gold-plated

Material: M...Copper alloy

Terminal size

Receptacle housing

J5 F S - 02 V - K X

Series name

Type of connector: F...Receptacle housing

Rows: S...Single-row, M...Double-row modular type

No. of circuits: 2, 3, 4, 6

Flammability: UL94V-0

Color indication: K...Black

Keying: X...X-Keying, Y...Y-Keying, XX...XX-Keying
YY...YY-Keying, XY...XY-Keying

Tab housing

J5 M S P - 02 V - K X

Series name

Kind of terminal: M...Tab housing

Rows: S...Single-row, M...Double-row modular type

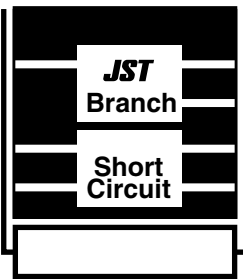
Configuration: P...Panel type

No. of circuits: 2, 3, 4, 6

Flammability: UL94V-0

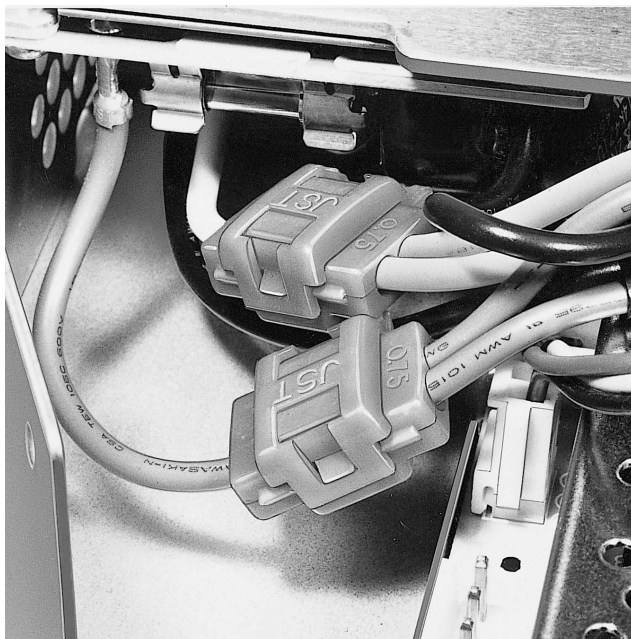
Color indication: K...Black

Keying: X...X-Keying, Y...Y-Keying, XX...XX-Keying
YY...YY-Keying, XY...XY-Keying

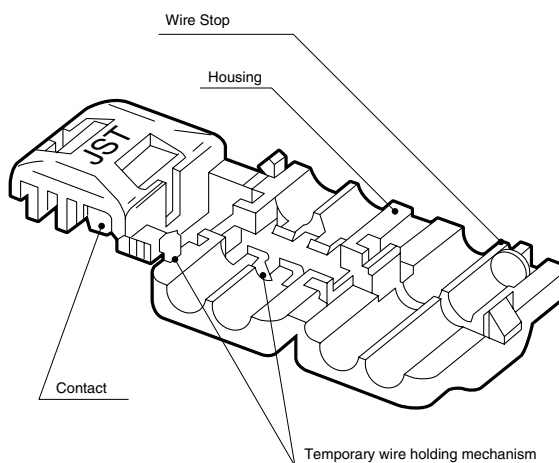


CL CONNECTOR

Insulation displacement Wire-to-wire connectors



The CL is a low-voltage, insulation displacement connector that can be applied using simple tools.



Features

• A simple operation completes this insulation displacement splice

Wire conductors can be securely connected to the internal fork-shaped contacts of this connector by simply pressing the connector housing halves together with pliers. It is not necessary to strip the wires or to use special tools.

• Superior insulation performance

The connector housing provides a highly effective insulation, and no further insulating operations are necessary.

• Temporary wire holding mechanism

A temporary wire holding mechanism prevents the wire from moving or being improperly connected during wire connection.

Specifications

- Current rating: 7A AC, DC max. (CL-2218T, CL-2218S)
15A AC, DC max. (CL-1814T, CL-1814S)
- Voltage rating: 300V AC, DC
- Maximum temperature: 105°C (including temperature rise in applying electrical current)
- Applicable wire: UL1015, VSF/AWG #22 to #18
0.3 to 0.75mm²
(CL-2218T, CL-2218S)
UL1015, VSF/AWG #18 to #14
0.75 to 2.0mm²
(CL-1814T, CL-1814S)

* Compliant with RoHS.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

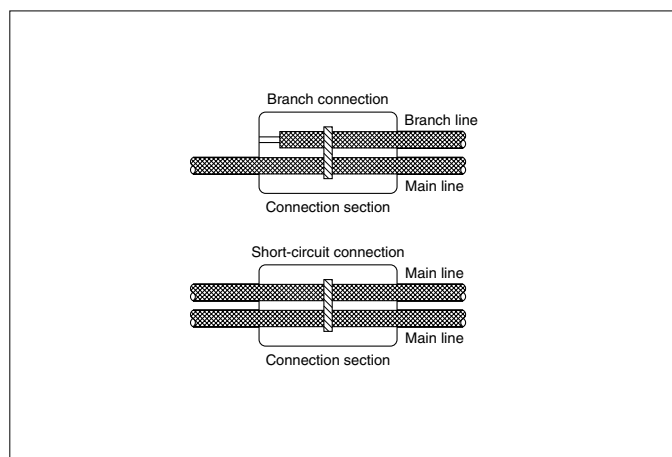
* Contact JST for details.

Standards

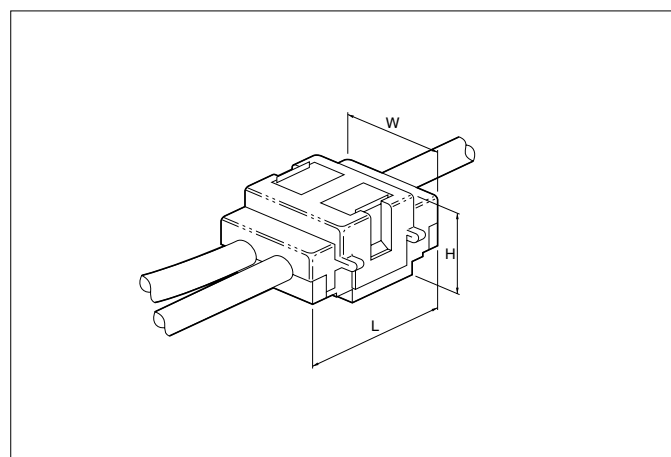
Listed E42024

Certified LR20812

Connection method



Connector dimensions



Con- nection method	Model No.	Applicable wire			Dimension (mm)			Material and Finish		Color	Q'ty / bag
		mm ²	AWG #	Insulation O.D. (mm)	W	H	L	Contact	Housing		
Branch	CL-2218T	0.3 to 0.75	22 to 18	2.2 to 3.2	13.8	11.0	20.0	Brass, tin-plated	PA 6, UL94V-2	Red	500
	CL-1814T	0.75 to 2.0	18 to 14	2.4 to 3.9	14.4					Blue	
Short- circuit	CL-2218S	0.3 to 0.75	22 to 18	2.2 to 3.2	13.8					Red	
	CL-1814S	0.75 to 2.0	18 to 14	2.4 to 3.9	14.4					Blue	

RoHS compliance

Note: Contact JST for details if you require special wires, for example, the wires insulated with the material other than soft vinyl, or with tens of conductors.



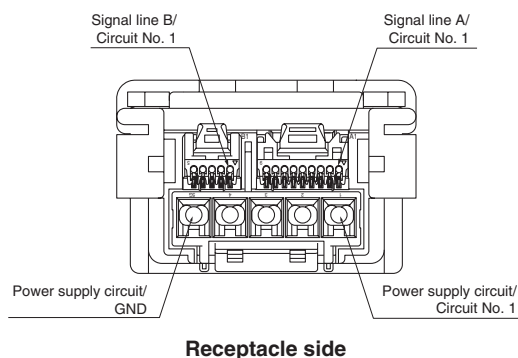
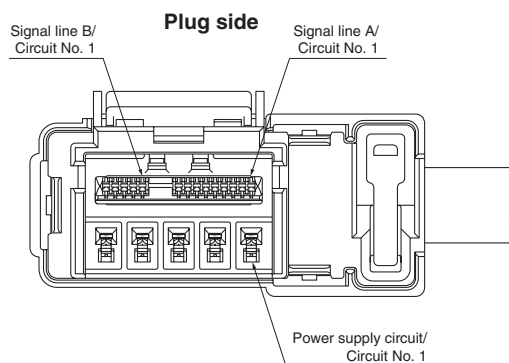
Disconnectable Crimp style Wire-to-wire connectors



- Hybrid type I/O connector with combined signal and power supply circuits.**

- ## Standards

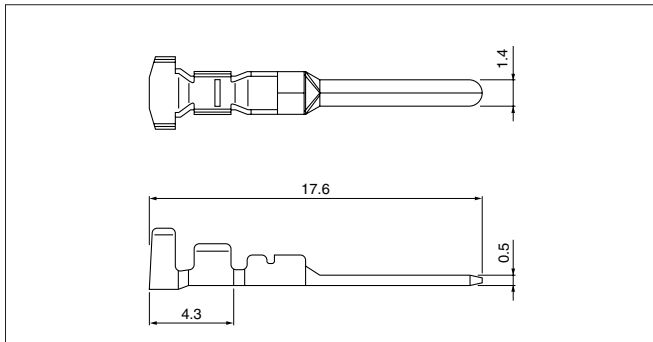
\triangle J50219161



*Note: 1. Punch holes in the panel according to the figures shown above. Burrs must be removed.
2. The strength of the panel must be considered when punching two or more holes.
3. The connector must be inserted from the same side as the hole is punched.*

DAC CONNECTOR

Plug contact for power supply circuit



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SSM-21T-P1.4	0.3 to 0.75	22 to 18	1.5 to 2.5	6,000

Material and Finish

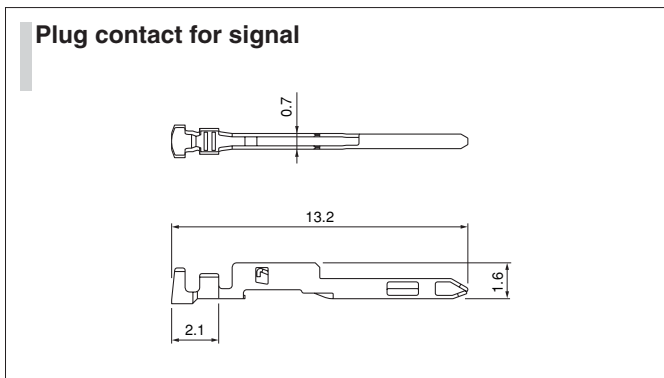
Copper alloy, tin-plated

RoHS compliance

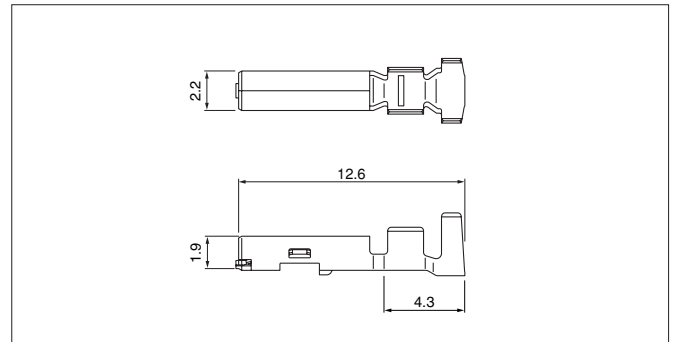
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SSM-21T-P1.4	AP-K2N	MKS-L	MK/SSF/M-21-14	APLMK SSF/M21-14
		—	—	—

Plug

Plug contact for signal



Receptacle contact for power supply circuit



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SDACF-21T-P1.4	0.3 to 0.75	22 to 18	1.5 to 2.5	6,000

Material and Finish

Copper alloy, tin-plated

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SDACF-21T-P1.4	AP-K2N	MKS-L	MK/SSF/M-21-14	APLMK SSF/M21-14
		—	—	—

Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SDACP-002T-M0.9	0.05 to 0.13	30 to 26	0.6 to 0.8	18,000

Material and Finish

Copper alloy, nickel-undercoated, tin-plated (reflow treatment)

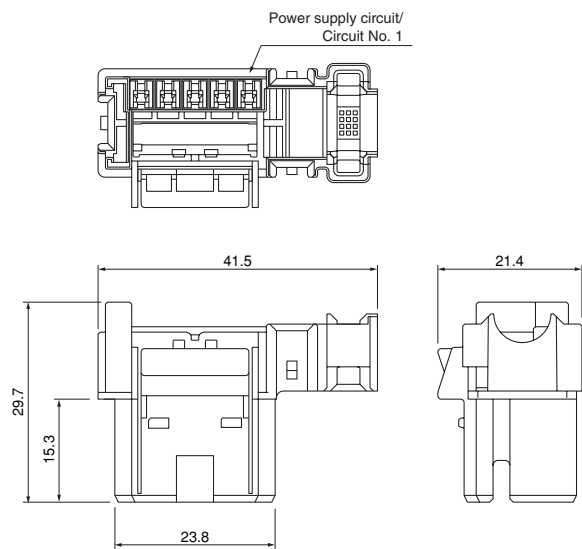
RoHS compliance This product displays (LF)(SN) on a label.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SDACP-002T-M0.9	AP-K2N	MKS-L-10-3	MK/SRFCP-002-09	APLMK SRFCP002-09
		—	—	—

DAC CONNECTOR

Plug

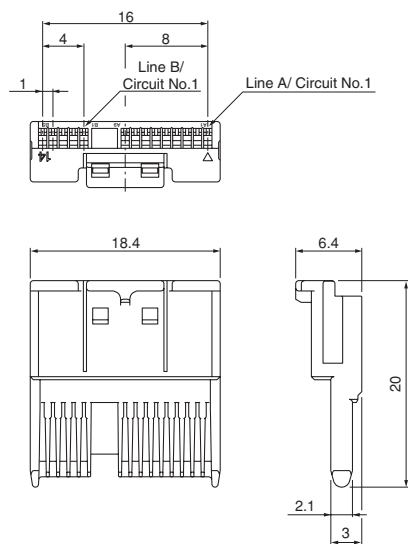
Signal 14 circuits / power 5 circuits



Model No.	Q'ty / box
DACPA-14P5-H	252
Material	
PBT, UL94V-0, gray	

RoHS compliance

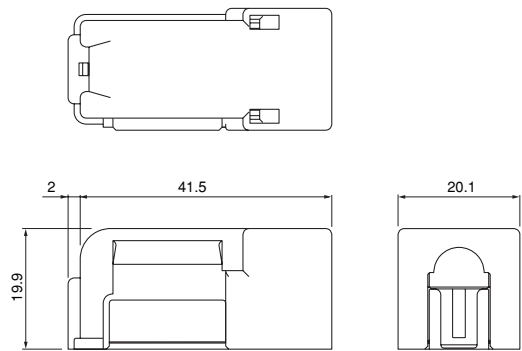
Plug signal unit



Model No.	Q'ty / box
DACYP-14(A9B5)-Z	480
Material	
LCP, UL94V-0, natural	

RoHS compliance

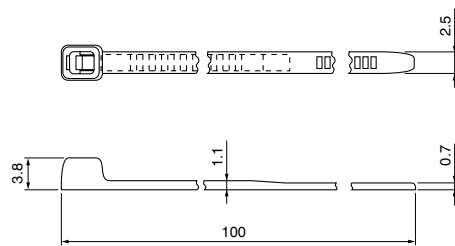
Plug cover



Model No.	Q'ty / box
DACC-14P5-H	315
Material	
PBT, UL94V-0, gray	

RoHS compliance

Tie lock



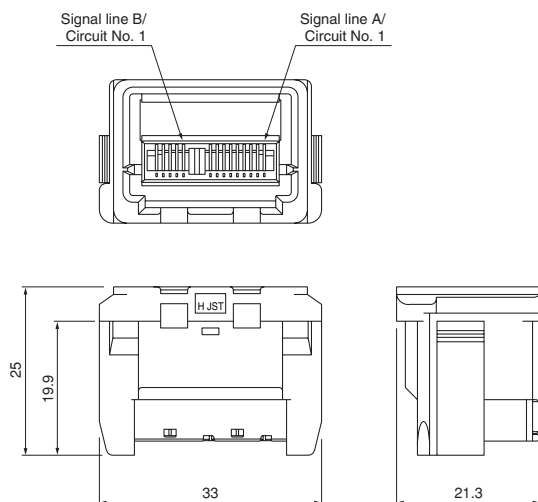
Model No.	Q'ty / box
KB-100-1	1,000
Material	
PA 66, natural	

RoHS compliance
Note: Not CSA approved.

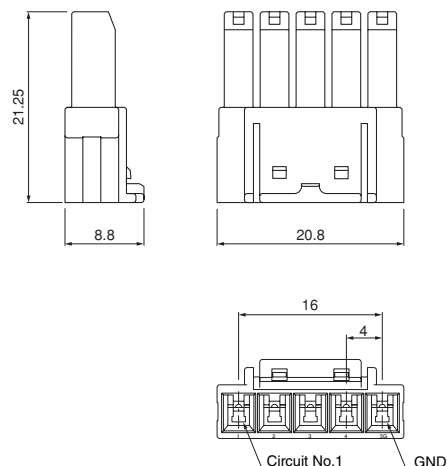
DAC CONNECTOR

Receptacle

Signal 14 circuits / power 5 circuits



Power supply unit



Model No.	Q'ty / box
14P5RA-DAC-HT	240

Material and Finish
Contact: Copper alloy, nickel-undercoated, tin-plated (reflow treatment) Housing: PBT, UL94V-0, gray

RoHS compliance This product displays (LF)(SN) on a label.

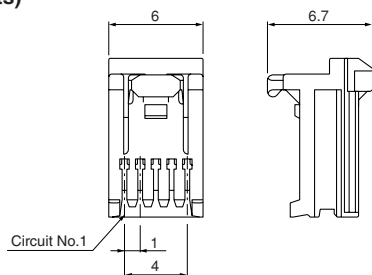
Model No.	Q'ty / box
DACYR-P5-5G-H	120

Material
PBT, UL94V-0, gray

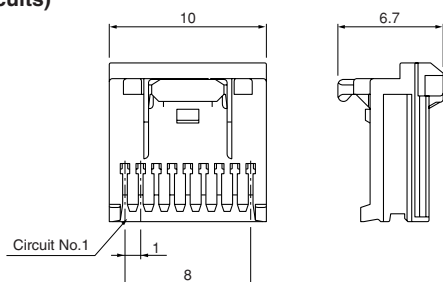
RoHS compliance

CSR connector socket

(5 circuits)



(9 circuits)

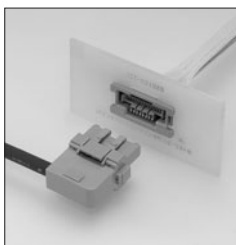


Circuits	Model No.	Q'ty / box
5	05CSR-8PK	9,000
9	09CSR-8PK	5,400

Material and Finish
Contact: Copper alloy, tin-plated Housing: PBT, UL94V-0, pink

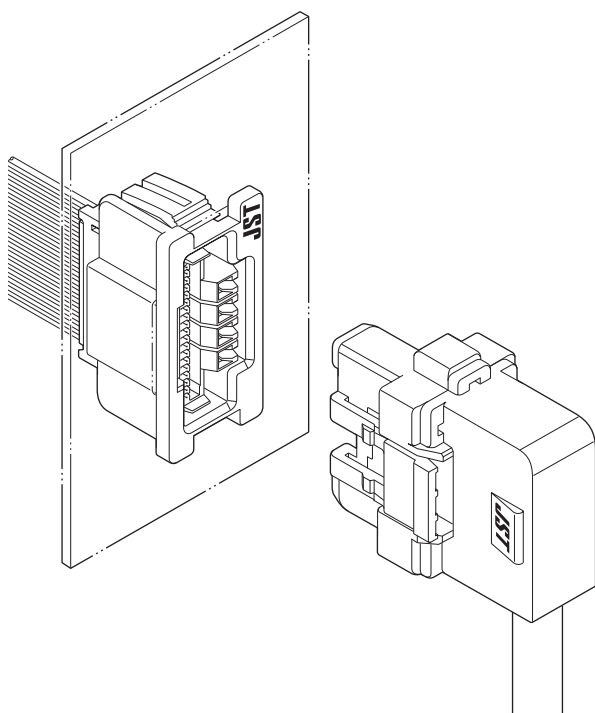
RoHS compliance

Applicable wire	UL11079, UL3619, UL3855, UL11030 (Contact JST for details regarding other UL style.) AWG#27, #28 Conductor/ 7 strands, tin-coated annealed copper Insulation O.D./ 0.65 to 0.73mm
-----------------	---



OTZ CONNECTOR

Disconnectable Crimp style Wire-to-wire connectors



Hybrid type I/O connector with combined signal and power supply circuits.

- **Curtailement of number of component**
- **Space saving**
- **Lever lock function**

Specifications

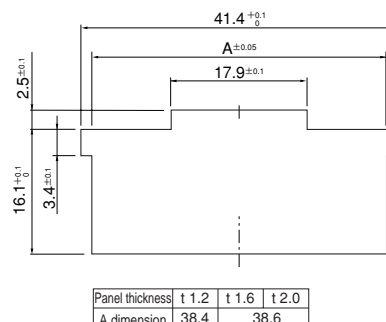
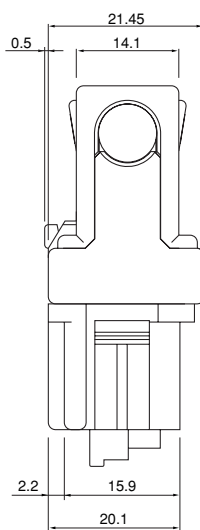
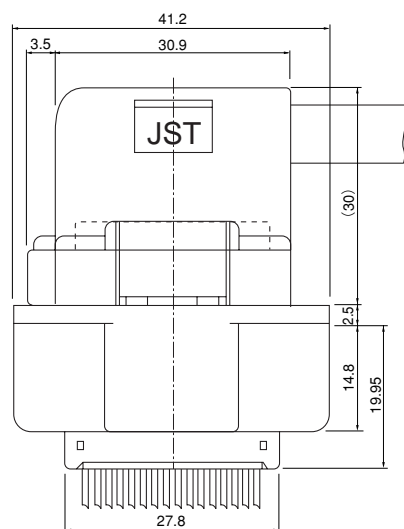
- Current rating: Signal circuit 1.0A AC, DC (AWG #26)
Power supply circuit 5A AC, DC (AWG #20)
- Voltage rating: Signal circuit 50V AC, DC (AWG #26)
Power supply circuit 300V AC, DC (AWG #20)
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Applicable wire: Signal circuit AWG #28 to #26
Power supply circuit AWG #26 to #20
- Number of circuits: Signal circuit 16 circuits
Power supply circuit 4 circuits
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

⚡ Recognized E60389

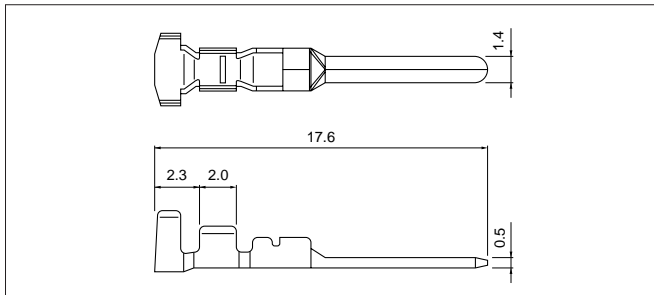
Ⓢ Certified LR20812

Assembly layout and Panel layout



- Note: 1. Punch holes in the panel according to the sketch and table shown above. Burrs must be removed.
2. The strength of the panel must be considered when punching two or more holes.
3. The connector must be inserted from the same side as the hole is punched.

Power supply circuit contact plug



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SSM-01GD-P1.4	0.13~0.5	26~20	1.3~2.5	6,000

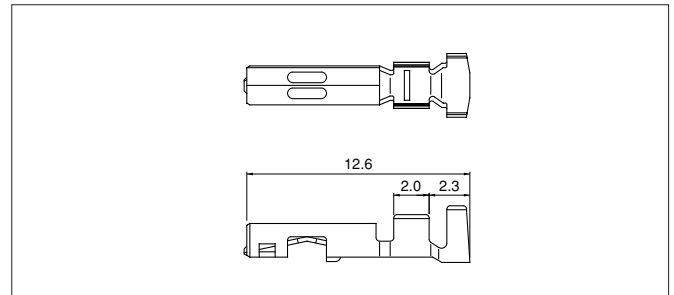
Material and Finish

Copper alloy, nickel-undercoated, Mating part; gold-plated
Crimping part; tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SSM-01GD-P1.4	AP-K2N	MKS-L	MK/SSF/M-01-14	APLMK SSF/M01-14
		—	—	—

Power supply circuit contact receptacle



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SSF-01GW-P1.4	0.13~0.5	26~20	1.3~2.5	6,000

Material and Finish

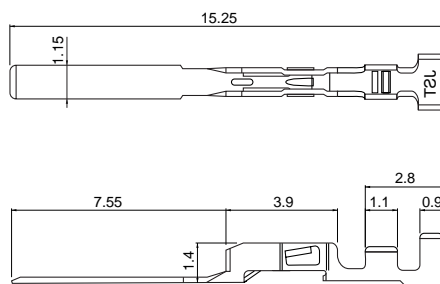
Copper alloy, nickel-undercoated, overall gold-plated

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SSF-01GW-P1.4	AP-K2N	MKS-L	MK/SSF/M-01-14	APLMK SSF/M01-14
		—	—	—

Plug

Plug contact for signal



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SOTZP-002GG-P0.18	0.08~0.13	28 · 26	0.7 ~ 0.93	13,000

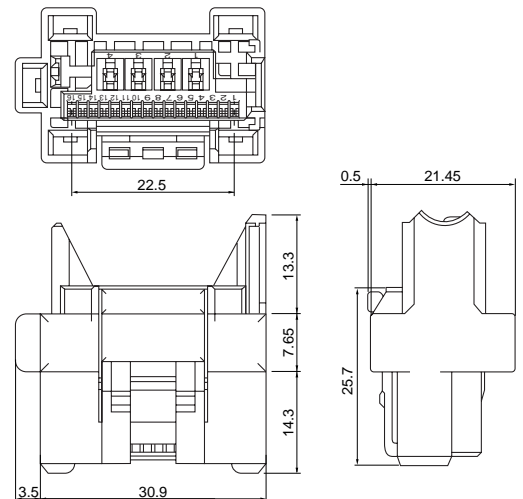
Material and Finish

Copper alloy, nickel-undercoated, Mating part; gold-plated
Crimping part; tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SOTZP-002GG-P0.18	AP-K2N	MKS-L	MK/SOTZP-002-018	APLMK SOTZP002-018
		—	—	—

Signal 16 circuit / power 4 circuit



Model No.	Q'ty / box
OTZP-16-H-P4	100

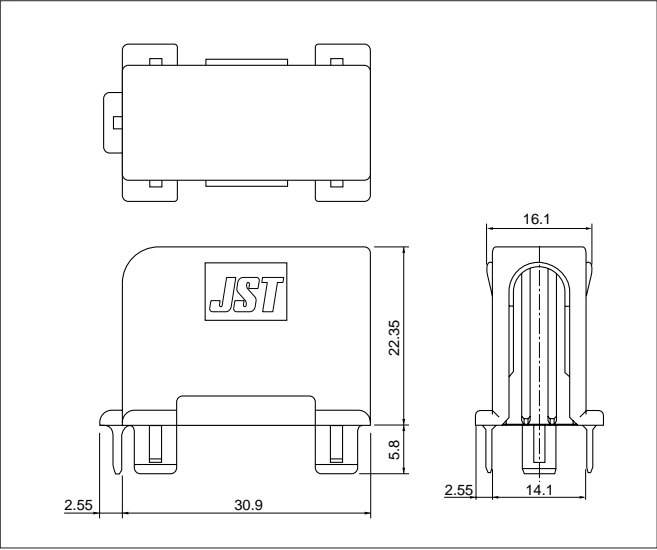
Material

PBT, UL94V-0, gray

RoHS compliance

OTZ CONNECTOR

Plug cover

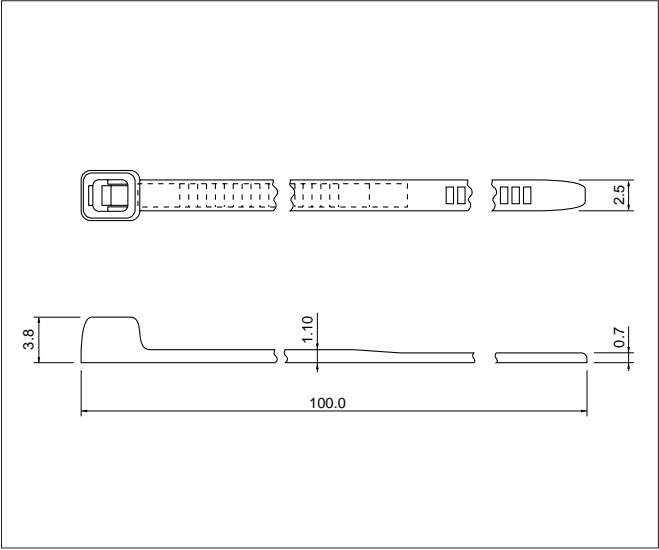


Model No.	Q'ty / box
OTZC-16-H-P4	200
Material	

PBT, UL94V-0, gray

RoHS compliance

Tie lock



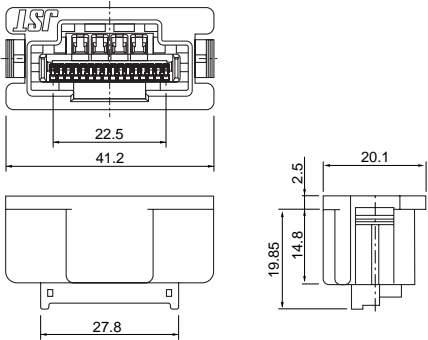
Model No.	Q'ty / box
KB-100-1	1,000
Material	

PA 66, natural

RoHS compliance
Note: Not UL/CSA approved.

Receptacle

Signal 16 circuit / power 4 circuit

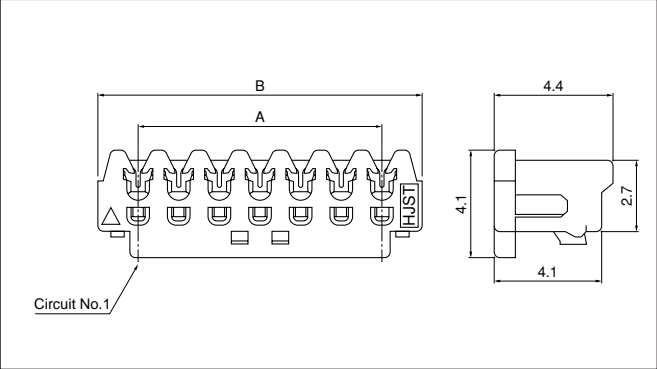


Model No.	Q'ty / box
16R-OTZ-H4GG-P4RL	40
Material and Finish	

Housing: PBT, UL94V-0, gray
Contact: Copper alloy, nickel-undercoated, selective gold-plated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

CZ connector socket

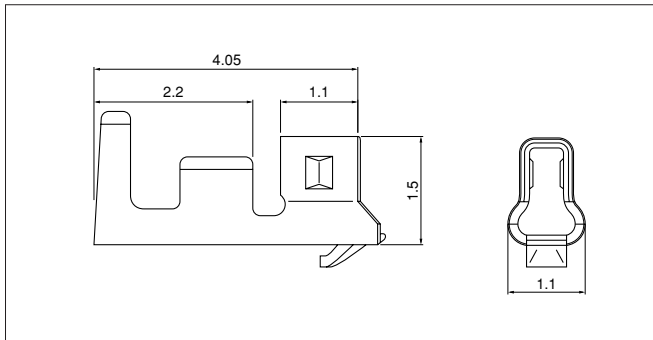


Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Gray	Yellow	A	B	
16	16CZ-6H	16CZ-6Y	22.5	25.5	1,000
Material and Finish					

Contact: Copper alloy, tin-plated (reflow treatment)
Housing: Glass-filled PA 66, UL94V-0

RoHS compliance

CZH connector contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SCZH-002T-P0.5	0.08~0.13	28~26	0.8~1.1	13,000

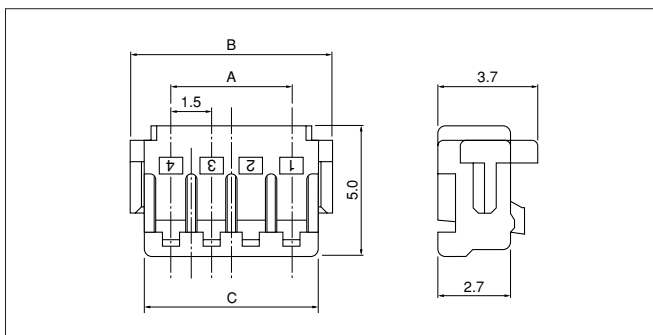
Material and Finish

Copper alloy, tin-plated (reflow treatment)

RoHS compliance

Note: The product listed above is not UL/CSA approved in combination with OTZ connector. (CZH connector itself is approved.)

CZH connector housing



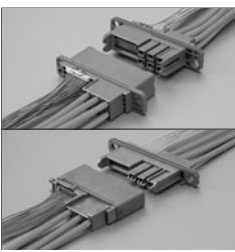
Circuits	Model No.	Dimensions (mm)			Q'ty / box
		A	B	C	
16	CZHR-16V-S	22.5	25.5	24.5	1,000

Material

PBT, UL94V-0, natural (white)

RoHS compliance

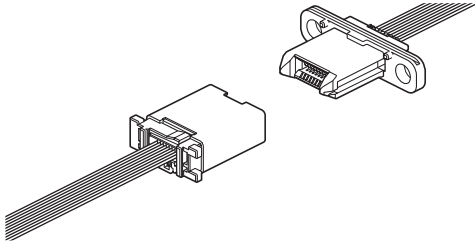
Note: The product listed above is not UL/CSA approved in combination with OTZ connector. (CZH connector itself is approved.)



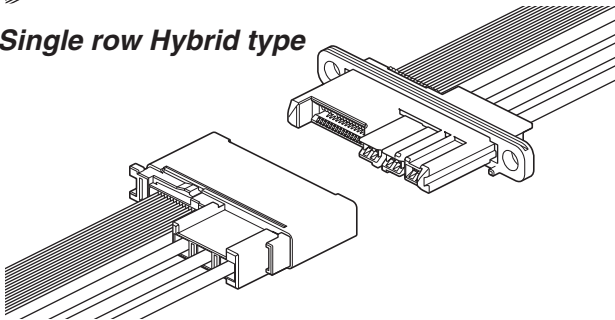
RFC CONNECTOR

Disconnectable Crimp style Wire-to-wire connectors

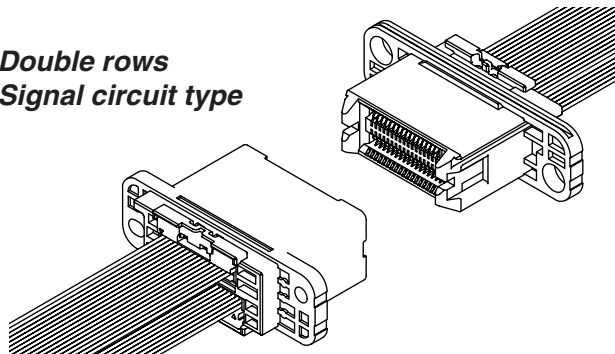
Single row Signal circuit type



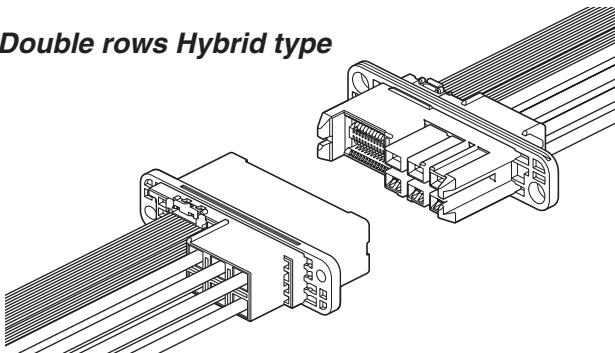
Single row Hybrid type



Double rows Signal circuit type



Double rows Hybrid type



Signal/hybrid type drawer connector for unit connection. The RFC connector absorbs misalignment between the two units and also excels in durability. The contact reliability has been enhanced by reviewing contact structure.

Specifications

- Current rating: Signal circuit 1.0 A AC, DC (AWG #26, AWG #27)
Power supply circuit 15 A AC, DC (AWG #14)
- Voltage rating: Signal circuit 50 V AC, DC
Power supply circuit 250 V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance:

Signal circuit	Initial value/ 40 mΩ max. After environmental tests/ 60 mΩ max.
Power supply circuit	Initial value/ 10 mΩ max. After environmental tests/ 20 mΩ max.
- Insulation resistance: 500 MΩ min.
- Withstanding voltage: Signal circuit 500 VAC
Power supply circuit 1,500 VAC
- Applicable wire:

Power supply circuit	Conductor size/ AWG#18 to #14 Insulation O.D./ 2.0 to 3.6 mm
Plug signal circuit	Conductor size/ AWG #30 to #26 Insulation O.D./ 0.6 to 0.8 mm
Receptacle signal circuit	Applicable socket/ CSR, CSH connectors
- Mating/Unmating life: 5,000 cycles

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

* Compliant with RoHS.

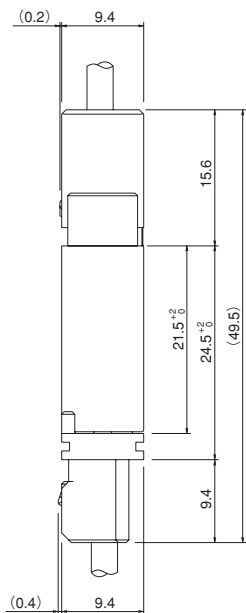
Standards

 Recognized E60389

 J50272912

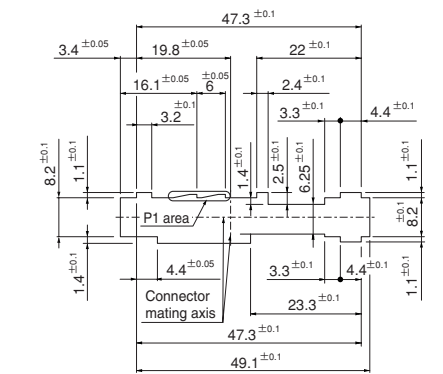
RFC CONNECTOR

Single row
Hybrid type

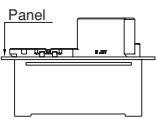
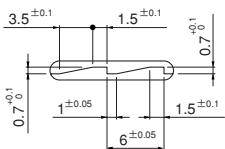


Plug

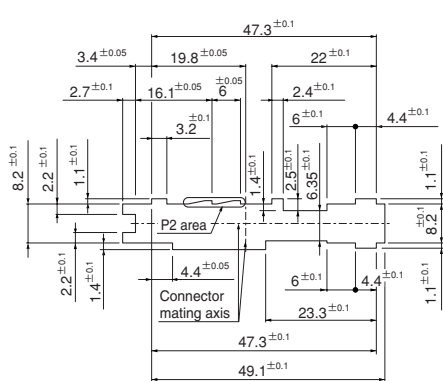
Panel thickness: t1.0



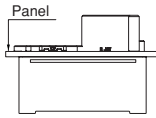
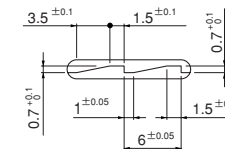
Details of P1 area



Panel thickness: t2.0

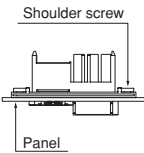
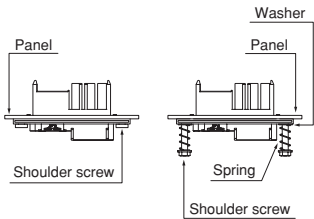
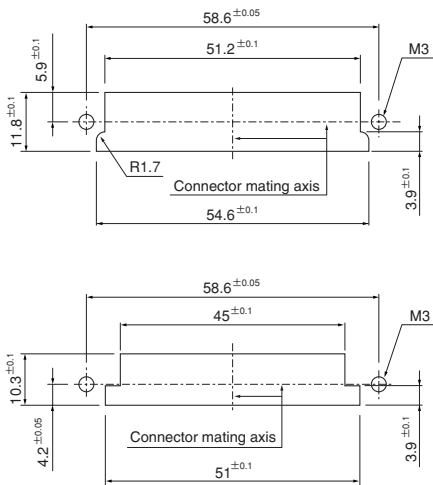


Details of P2 area



Receptacle

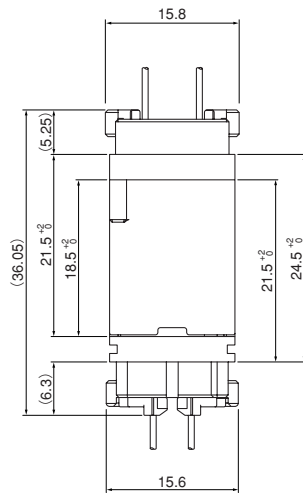
Panel thickness: t0.8 ~ t2.0



Mating circuit

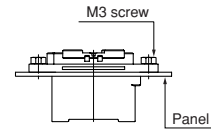
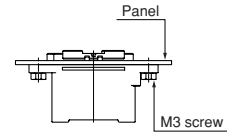
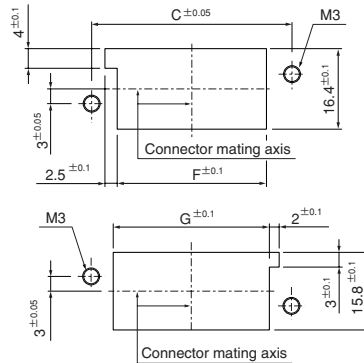
	Circuits
Plug signal unit	1
RFC receptacle	1
CSH/CSR	1
	Circuits
Plug contact for power supply circuit	1
Receptacle contact for power supply circuit	1

Double rows Signal circuit type



Plug

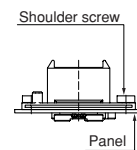
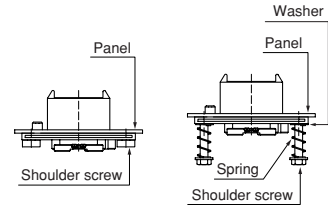
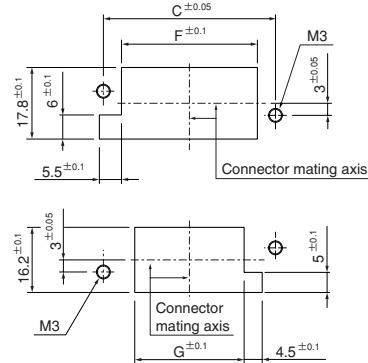
Panel thickness: $t0.8 \sim t2.0$



Note) C, F and G dimensions: Refer to page 6.

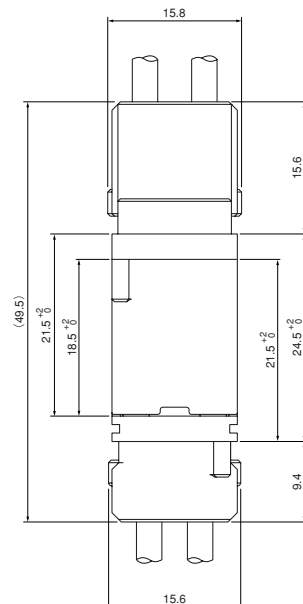
Receptacle

Panel thickness: $t0.8 \sim t2.0$



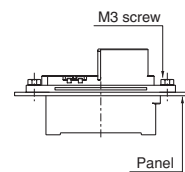
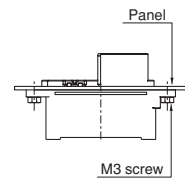
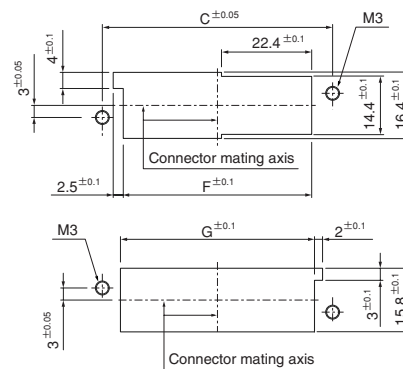
Note) C, F and G dimensions: Refer to page 7.

Double rows Hybrid type



Plug

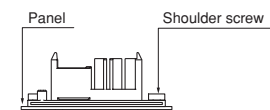
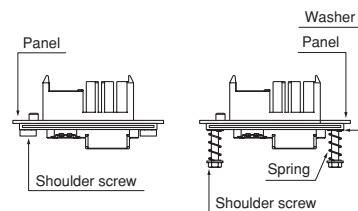
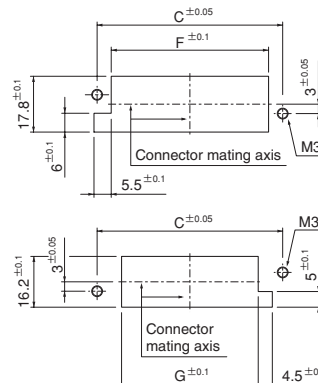
Panel thickness: $t0.8 \sim t2.0$



Note) C, F and G dimensions: Refer to page 6.

Receptacle

Panel thickness: $t0.8 \sim t2.0$



Note) C, F and G dimensions: Refer to page 7.

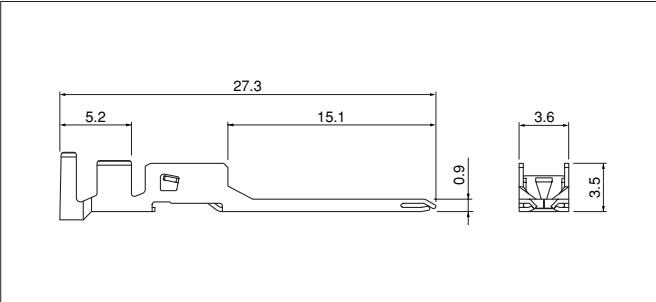
Mating circuit

	Circuits
Plug signal unit	1
RFC receptacle	1
CSH/CSR	1
	Circuits
Plug contact for power supply circuit	1
Receptacle contact for power supply circuit	1

Note: 1. Punch holes in the panel according to the figures shown above. Burrs must be removed.
2. The strength of the panel must be considered when punching two or more holes.
3. The connector must be inserted from the same side as the hole is punched.

RFC CONNECTOR

Plug contact for power supply circuit



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SRFM-61GG-S0.9	0.75~2.0	18~14	2.0~3.6	3,500

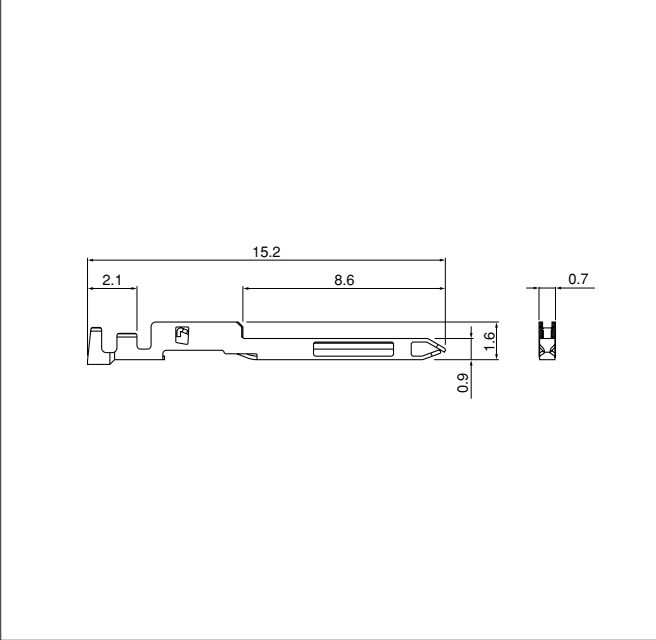
Material and Finish

Copper alloy, nickel-undercoated, Mating part; gold-plated
Crimping part; tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SRFM-61GG-S0.9	AP-K2N	MKS-L	MK/SRFF/M-61-09	APLMK SRFF/M61-09

Plug contact for power supply circuit



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SRFCP-002GG-M0.9	0.05~0.13	30~26	0.6~0.8	18,000

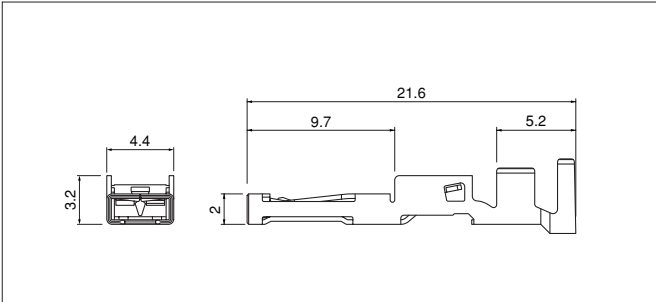
Material and Finish

Copper alloy, nickel-undercoated, Mating part; gold-plated
Crimping part; tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SRFCP-002GG-M0.9	AP-K2N	MKS-L-10-3	MK/SRFCP-002-09	APLMK SRFCP002-09

Receptacle contact for power supply circuit



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG#		
SRFF-61GG-S0.9	0.75~2.0	18~14	2.0~3.6	3,500

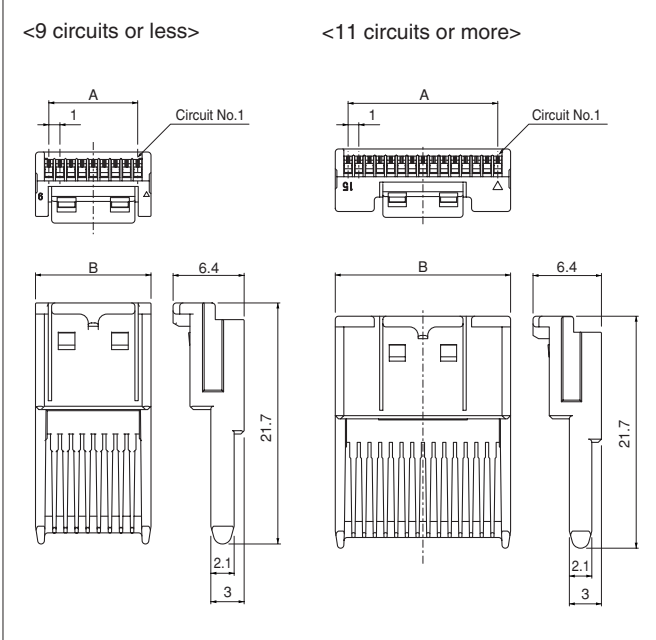
Material and Finish

Copper alloy, nickel-undercoated, Mating part; gold-plated
Crimping part; tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SRFF-61GG-S0.9	AP-K2N	MKS-L	MK/SRFF/M-61-09	APLMK SRFF/M61-09

Receptacle contact for power supply circuit



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
9	RFCYP-09-Z-S	8.0	10.4	8,400
11	RFCYP-11-Z	10.0	12.4	7,200
13	RFCYP-13-Z	12.0	14.4	6,000
15	RFCYP-15-Z	14.0	16.4	5,200
17	RFCYP-17-Z	16.0	18.4	4,800
19	RFCYP-19-Z	18.0	20.4	4,400
21	RFCYP-21-Z	20.0	22.4	4,000
23	RFCYP-23-Z	22.0	24.4	3,600

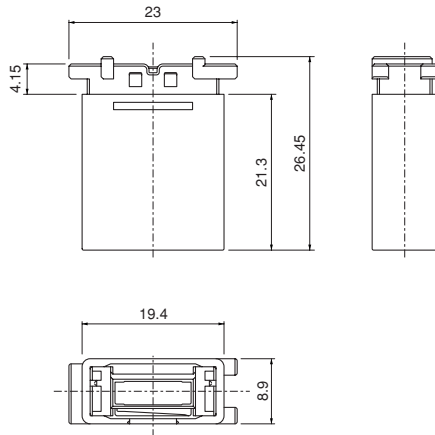
Material

LCP, UL94V-0, natural

RoHS compliance

Plug

Single row Signal circuit type



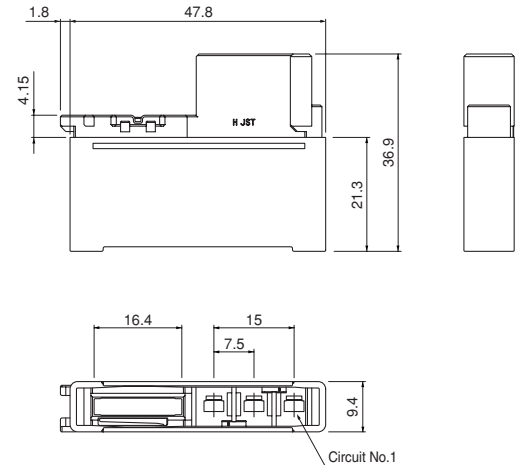
Circuits		Model No.	Q'ty / box
Power supply	Signal		
None	9	RFCP-09S0-RJ-M	1,620

Material

PBT • UL94V-0, green

RoHS compliance

Single row Hybrid type



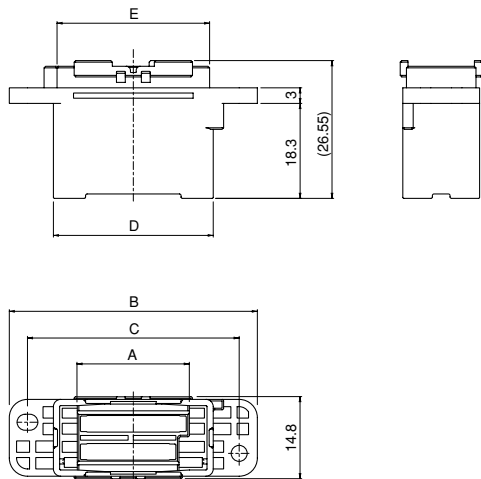
Circuits		Model No.	Q'ty / box
Power supply	Signal		
3	15	RFCP-15S3-SRL-K	360

Material

LCP • UL94V-0, black

RoHS compliance

Double rows Signal circuit type



Circuits		Model No.	Dimensions (mm)							Q'ty / box
Power supply	Signal		A	B	C	D	E	F	G	
None	36	RFCP-36W0-E	20.4	47.8	40.8	30.8	29.4	30.4	31.8	400
None	44	RFCP-44W0-E	24.4	51.8	44.8	34.8	33.4	34.4	35.8	350

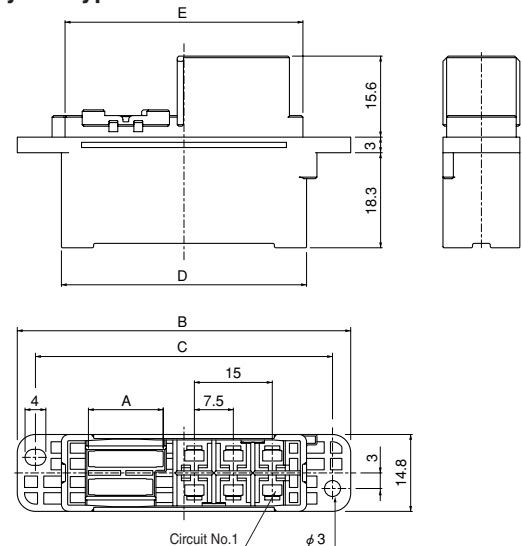
Material

PBT, UL94V-0, blue

RoHS compliance

Note: F and G dimensions; Refer to the panel layout (page 4).

Double rows Hybrid type



Circuits		Model No.	Dimensions (mm)							Q'ty / box
Power supply	Signal		A	B	C	D	E	F	G	
6	24	RFCP-24W6-E	14.4	64.2	57.2	47.2	45.8	46.8	48.2	200
6	36	RFCP-36W6-E	20.4	70.2	63.2	53.2	51.8	52.8	54.2	200

Material

PBT, UL94V-0, blue

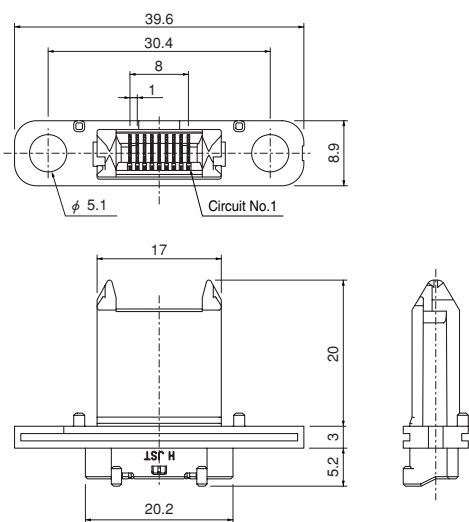
RoHS compliance

Note: F and G dimensions; Refer to the panel layout (page 4).

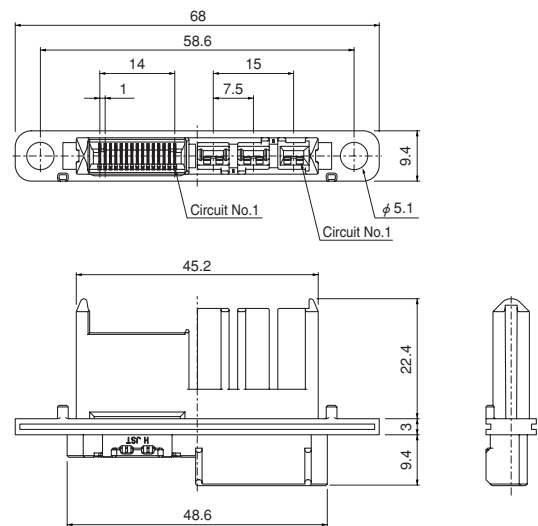
RFC CONNECTOR

Receptacle

Single row Signal circuit type



Single row Hybrid type



Circuits		Model No.	Q'ty / box
Power supply	Signal		
None	9	09S0R-RFC-MGD	576

Material and Finish

Signal contact: Copper alloy, nickel-undercoated, selective gold-plated tin-plated (reflow treatment)
Housing: PBT, UL94V-0, green

RoHS compliance This product displays (LF)(SN) on a label.

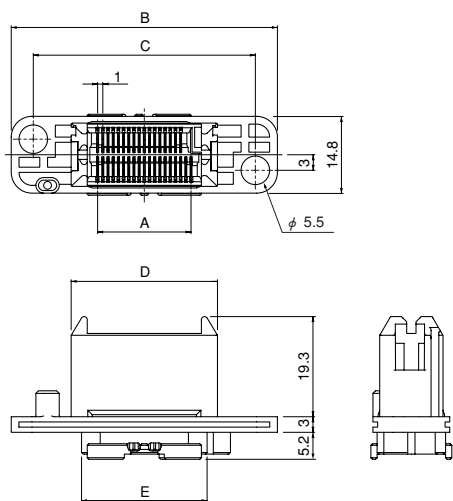
Circuits		Model No.	Q'ty / box
Power supply	Signal		
3	15	15S3R-RFC-SKGD	340

Material and Finish

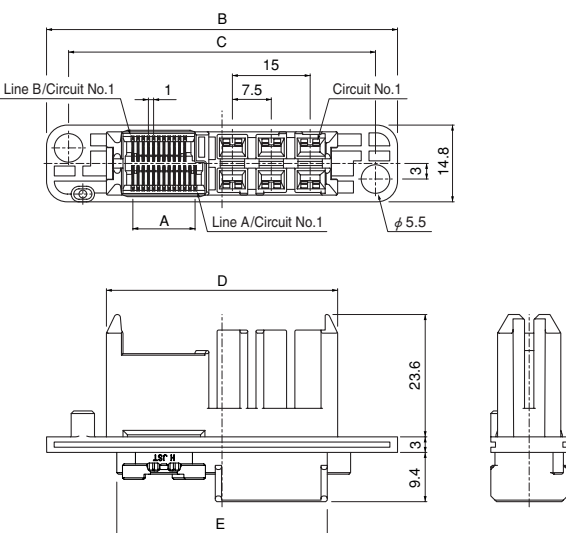
Signal contact: Copper alloy, nickel-undercoated, selective gold-plated tin-plated (reflow treatment)
Housing: LCP, UL94V-0, black

RoHS compliance This product displays (LF)(SN) on a label.

Double rows Signal circuit type



Double rows Hybrid type



Circuits		Model No.	Dimensions (mm)							Q'ty / box
Power supply	Signal		A	B	C	D	E	F	G	
None	36	36W0R-RFC-EGD	18.0	51.3	42.8	28.2	24.2	33.8	27.2	350
None	44	44W0R-RFC-EGD	22.0	55.3	46.8	32.2	28.2	37.8	31.2	300

Material and Finish

Signal contact: Copper alloy, nickel-undercoated, selective gold-plated tin-plated (reflow treatment)
Housing: PBT, UL94V-0, blue

RoHS compliance This product displays (LF)(SN) on a label.
Note: F and G dimensions; Refer to the panel layout (page 4).

Circuits		Model No.	Dimensions (mm)							Q'ty / box
Power supply	Signal		A	B	C	D	E	F	G	
6	24	24W6R-RFC-EGD-1G	12.0	67.7	59.2	44.6	40.6	50.2	43.6	200
6	36	36W6R-RFC-EGD-1G	18.0	73.7	65.2	50.6	46.6	56.2	49.6	160

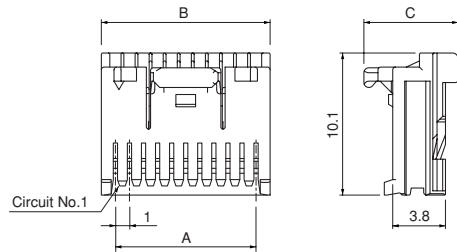
Material and Finish

Signal contact: Copper alloy, nickel-undercoated, selective gold-plated tin-plated (reflow treatment)
Housing: PBT, UL94V-0, blue

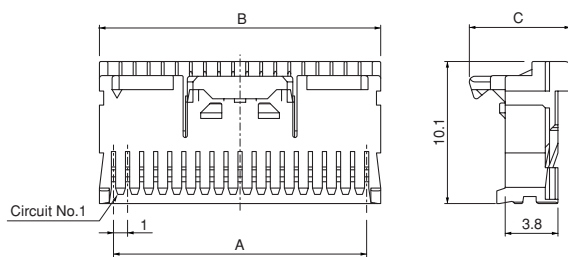
RoHS compliance This product displays (LF)(SN) on a label.
Note: F and G dimensions; Refer to the panel layout (page 4).

CSR connector socket

<9, 11 circuits>



<13, 15, 17, 19, 21, 23 circuits>



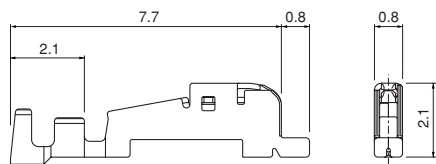
Circuits	Model No.	Dimensions (mm)			Q'ty / box
		A	B	C	
9	09CSR-8PK	8.0	10.0	6.7	5,400
11	11CSR-8PK	10.0	12.0	6.7	4,500
13	13CSR-8PK	12.0	14.0	7.2	3,780
15	15CSR-8PK	14.0	16.0	7.2	3,240
17	17CSR-8PK	16.0	18.0	7.2	2,880
19	19CSR-8PK	18.0	20.0	7.2	2,700
21	21CSR-8PK	20.0	22.0	7.2	2,340
23	23CSR-8PK	22.0	24.0	7.2	2,160

Material and Finish

Contact: Copper alloy, tin-plated
Housing: PBT, UL94V-0, pink

RoHS compliance This product displays (LF)(SN) on a label.

CSH connector contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm²	AWG#		
SCSH-002T-P0.2N	0.05~0.13	30~26	0.6~0.8	12,000

Material and Finish

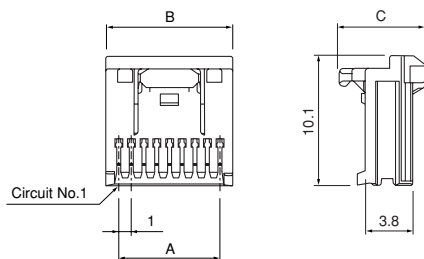
Copper alloy, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

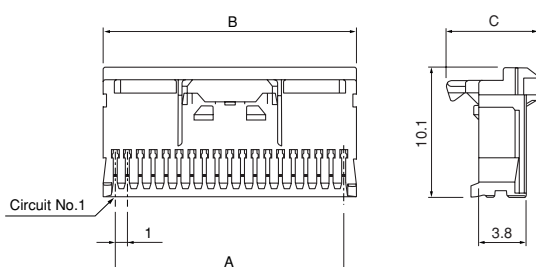
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SCSH-002T-P0.2N	AP-K2N	MKS-L-10-3	MK/SCSH-002-02	APLMK SCSH002-02

CSH connector housing

<11 circuits>



<13, 15, 17, 19 circuits>

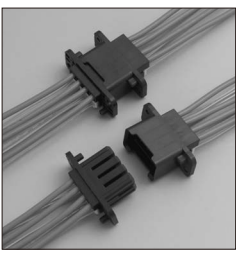


Circuits	Model No.	Dimensions (mm)			Q'ty / box
		A	B	C	
11	CSH-11-PK-N	10.0	12.0	6.7	10,000
13	CSH-13-PK-N	12.0	14.0	7.2	10,000
15	CSH-15-PK-N	14.0	16.0	7.2	10,000
17	CSH-17-PK-N	16.0	18.0	7.2	5,000
19	CSH-19-PK-N	18.0	20.0	7.2	5,000

Material

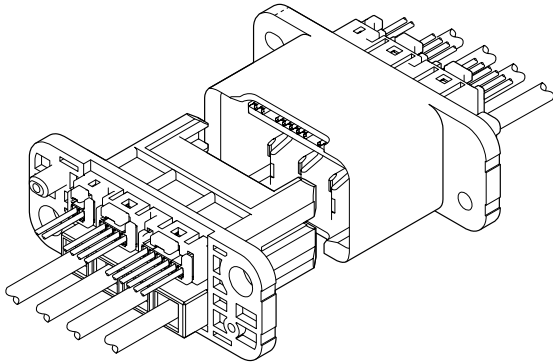
Housing: PBT, UL94V-0, pink

RoHS compliance



RIC CONNECTOR

Disconnectable Crimp style Wire-to-wire connectors



This connector is a hybrid type double-row drawer connector to connect the units, absorbs misalignment between units, and excels durability. RCZ connector with lever locking device is adopted as applicable socket to prevent coming off the socket and incomplete mating.

- Corresponding to space saving and lever locking type socket
- Absorbed misalignment mechanism
- High durability
- Hybrid type

Specifications

- Current rating: Signal circuit/1.0A AC, DC (AWG#26)
Power supply circuit/15A AC, DC (AWG#14)
- Voltage rating: Signal circuit/50V AC, DC
Power supply circuit/250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance:
 - Signal circuit Initial value/40m Ω max.
After environmental testing/60m Ω max.
 - Power supply circuit Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: Signal circuit 500V AC/minute
Power supply circuit 1,500V AC/minute
- Applicable wire: Signal circuit Applicable socket/RCZ connector
Power supply circuit Conductor size/AWG#18 to #14
Insulation O.D./2.0 to 3.6mm
- Mounting method: Screw
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

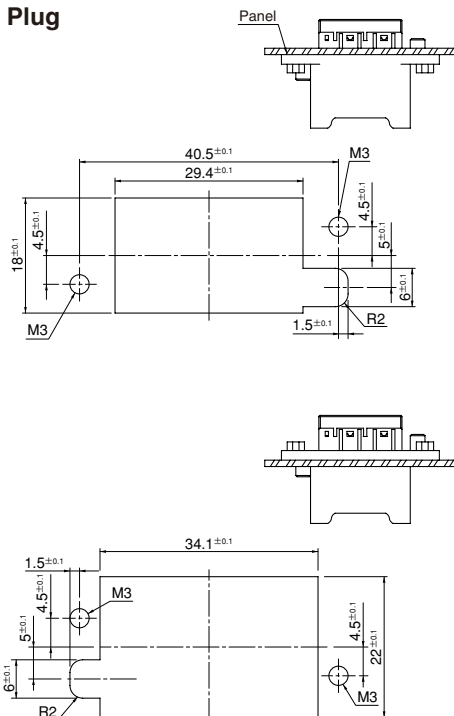
Recognized E60389

Certified LR20812

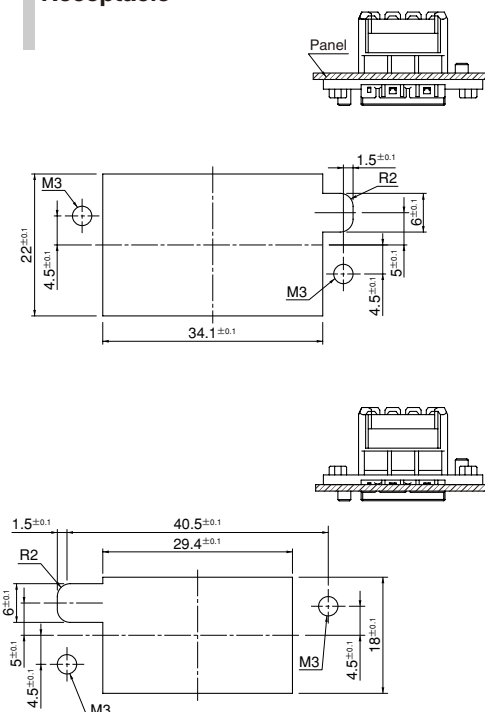
J50106515

PC board layout and Assembly layout

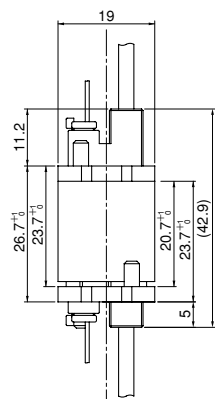
Plug



Receptacle



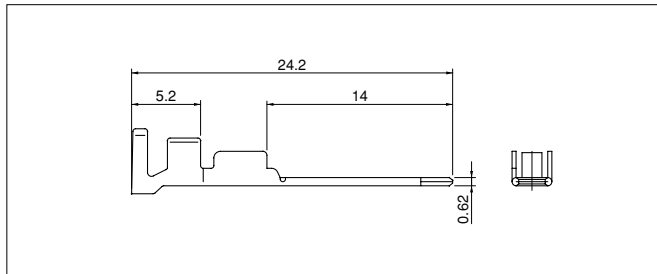
Assembly layout



- Note: 1. Punch holes in the panel according to the figures shown above. Burrs must be removed.
2. The strength of the panel must be considered when punching two or more holes.
3. The connector must be inserted from the same side as the hole is punched.

RIC CONNECTOR

Plug contact for power supply circuit



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SRICM-61GG-S0.6	0.75~2.0	18~14	2.0~3.6	3,000

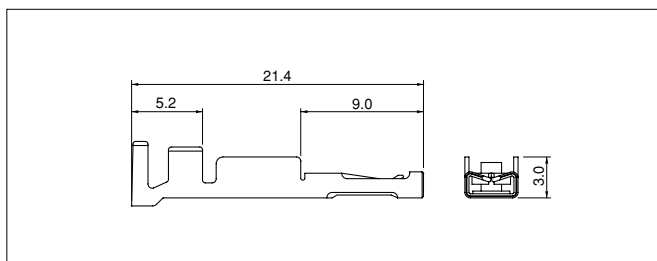
Material and Finish

Copper alloy, nickel-undercoated, Mating part; gold-plated
Crimping part; tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SRICM-61GG-S0.6	AP-K2N	MKS-L	MK/SRPF/IC/M-61-06	APLMK SRPF/IC/M61-06
		—	—	—

Receptacle contact for power supply circuit



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SRWF-61GG-M0.6	0.75~2.0	18~14	2.0~3.6	3,000

Material and Finish

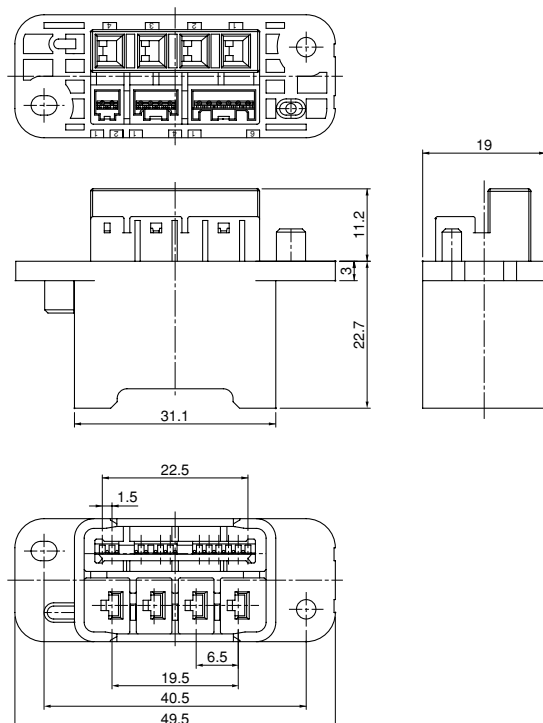
Copper alloy, nickel-undercoated, Mating part; gold-plated
Crimping part; tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SRWF-61GG-M0.6	AP-K2N	MKS-L	MK/SRPF/M-61-06	APLMK SRPF/M61-06
		—	—	—

Plug

Hybrid type (Connector with integrated signal and power)



Circuits		Model No.	Q'ty / box
Power supply	Signal		
4	12	12LP-RIC-K2GG-P4	45

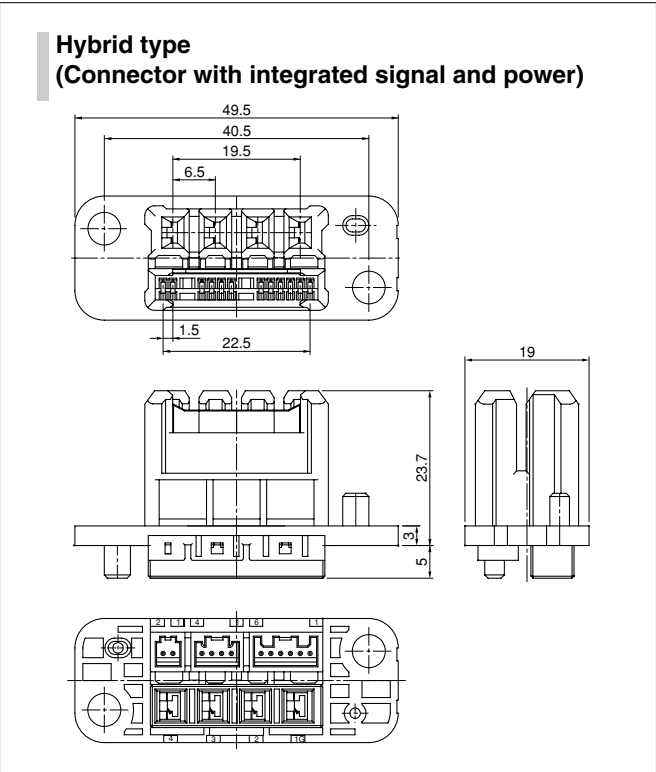
Material and Finish

Contact: Copper alloy, nickel-undercoated, selective gold-plated tin-plated (reflow-treatment)
Housing: PBT, UL94V-0, black

RoHS compliance This product displays (LF)(SN) on a label.

RIC CONNECTOR

Receptacle



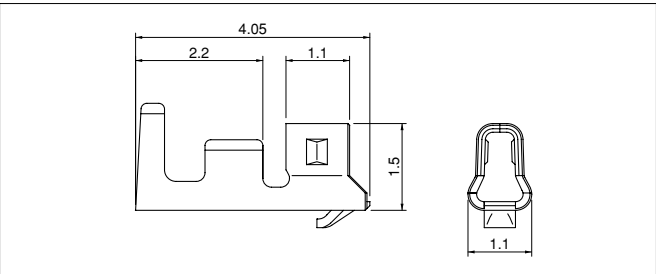
Circuits		Model No.	Q'ty / box
Power supply	Signal		
4	12	12LR-RIC-K4GG-R4	60

Material and Finish

Contact: Copper alloy, nickel-undercoated, selective gold-plated tin-plated (reflow-treatment)
Housing: PBT, UL94V-0, black

RoHS compliance This product displays (LF)(SN) on a label.

CZH connector contact (for RCZ connector)



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SCZH-002T-P0.5	0.08~0.13	28~26	0.8~1.1	13,000

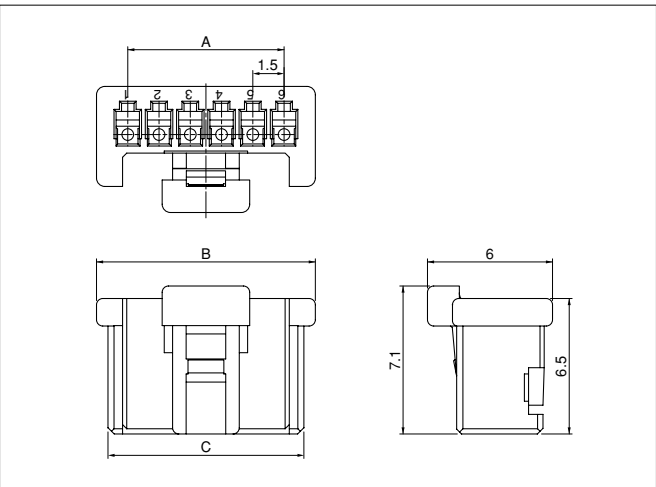
Material and Finish

Copper alloy, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SCZH-002T-P0.5	AP-K2N	MKS-L	MK/SCZH-002-05	APLMK SCZH002-05
		—	—	—

RCZ connector socket housing

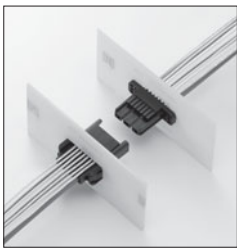


Circuits	Model No.	Dimensions (mm)			Q'ty / bag
		A	B	C	
2	RCZR-02V-PS-S	1.5	4.5	3.4	1,000
4	RCZR-04V-PS-S	4.5	7.5	6.4	1,000
6	RCZR-06V-PS-S	7.5	10.5	9.4	1,000

Material

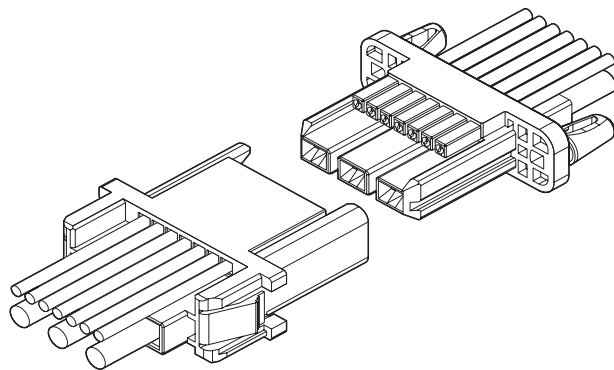
PA 66, UL94V-0, natural (white)

RoHS compliance



RIJ CONNECTOR

Disconnectable Crimp style Wire-to-wire connectors



This connector is a hybrid type double-row drawer connector with combined signal and power supply circuits to connect the units. In the signal part, the number of parts reduced by connecting the crimping contact directly.

- **Space saving**
- **Panel locking device**
- **Hybrid type**

Specifications

- **Current rating:** Signal circuit/2A AC, DC (AWG#24)
Power supply circuit/15A AC, DC (AWG#14)
 - **Voltage rating:** Signal circuit/50V AC, DC
Power supply circuit/250V AC, DC
 - **Temperature range:** -25°C to +85°C
(including temperature rise in applying electrical current)
 - **Contact resistance:**
Signal circuit Initial value/20m Ω max.
After environmental testing/40m Ω max.
Power supply circuit Initial value/10m Ω max.
After environmental testing/30m Ω max.
 - **Insulation resistance:** 1,000M Ω min.
 - **Withstanding voltage:** Signal circuit 500V AC/minute
Power supply circuit 1,500V AC/minute
 - **Applicable wire:** Signal circuit
Conductor size/AWG#28 to #24
Insulation O.D./0.9 to 1.5mm
Power supply circuit
Conductor size/AWG#18 to #14
Insulation O.D./2.0 to 3.6mm
- * Compliant with RoHS.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

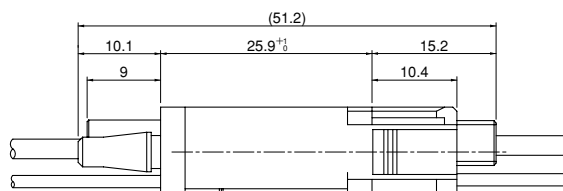
Standards

Ⓜ Recognized E 60389

Ⓢ Certified LR 20812

⚠ J50102230

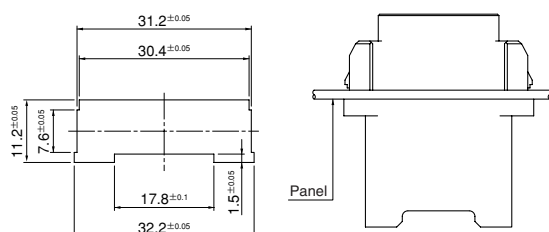
Assembly layout



Panel layout

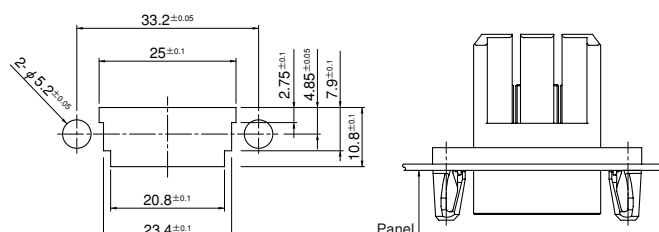
Plug

- Standard type
Panel thickness: 1.6, 2.0mm



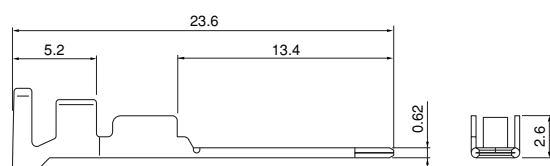
Receptacle

- Standard type
Panel thickness: 1.0mm



Note: 1. Punch holes in the panel according to the figures shown above. Burrs must be removed.
2. The strength of the panel must be considered when punching two or more holes.
3. The connector must be inserted from the same side as the hole is punched.

Plug contact for power supply circuit



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SRWM-61GG-S0.6	0.75~2.0	18~14	2.0~3.6	3,000

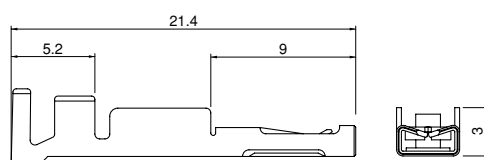
Material and Finish

Copper alloy, nickel-undercoated, Mating part; gold-plated
Crimping part; tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SRWM-61GG-S0.6	AP-K2N	MKS-L	MK/SRPF/M-61-06	APLMK SRPF/M61-06

Receptacle contact for power supply circuit



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SRWF-61GG-M0.6	0.75~2.0	18~14	2.0~3.6	3,000

Material and Finish

Copper alloy, nickel-undercoated, Mating part; gold-plated
Crimping part; tin-plated (reflow treatment)

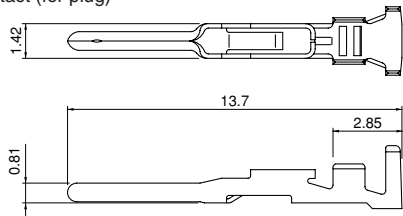
RoHS compliance This product displays (LF)(SN) on a label.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SRWF-61GG-M0.6	AP-K2N	MKS-L	MK/SRPF/M-61-06	APLMK SRPF/M61-06

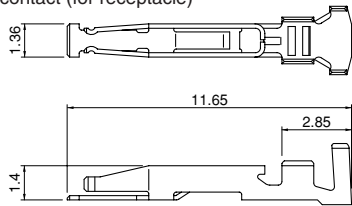
RIJ CONNECTOR

Contact for signal circuit

●Pin contact (for plug)



●Socket contact (for receptacle)



Model No.		Applicable wire		Insulation O.D. (mm)	Q'ty / reel
Pin contact	Socket contact	mm ²	AWG #		
RPJ-SP2331	RPJ-SS2331	0.08~0.22	28~24	0.9~1.5	10,000

Material and Finish

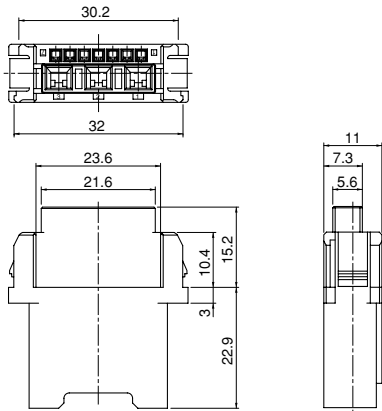
Phosphor bronze, nickel-undercoated, gold-plated

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
RPJ-SP2331	AP-K2N	MKS-L	MK/RPJ-SP/SS2	APLMK RPJ-SP/SS2
RPJ-SS2331		—	—	—

Plug

Hybrid type
(Connector with integrated signal and power)



Circuits		Model No.	Q'ty / box
Power supply	Signal		
3	7	07P-RIJ-K-3RL	880

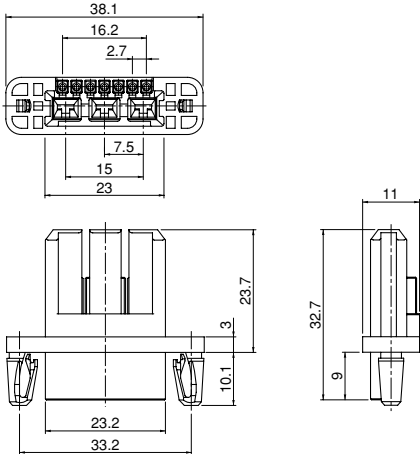
Material

PBT · UL94V-0, black

RoHS compliance

Receptacle

Hybrid type
(Connector with integrated signal and power)

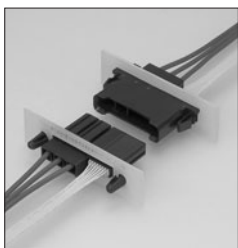


Circuits		Model No.	Q'ty / box
Power supply	Signal		
3	7	07R-RIJ-K-R3FI	880

Material

PBT · UL94V-0, black

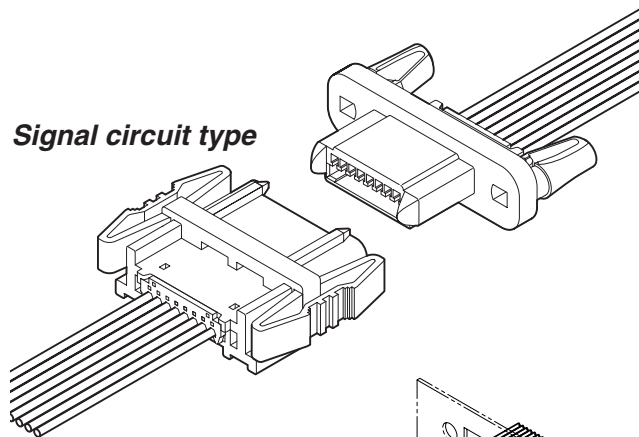
RoHS compliance



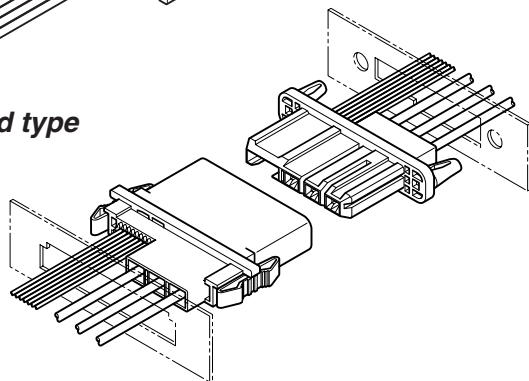
RIZ CONNECTOR

Disconnectable Crimp style Wire-to-wire connectors

Signal circuit type



Hybrid type



In unit connection, this RIZ connector is a hybrid type single row drawer connector with combined signal and power supply circuits, absorbs misalignment between units, and excels durability.

- Space saving
- Panel locking device
- High Durability
- Hybrid type

Specifications

- Current rating: Signal circuit 1.0A AC, DC (AWG #26)
Power supply circuit 15A AC, DC (AWG #14)
- Voltage rating: Signal circuit 50V AC, DC
Power supply circuit 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Signal circuit Initial value/40m Ω max.
After environmental testing/60m Ω max.
Power supply circuit Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: Signal circuit 500V AC
Power supply circuit 1,500V AC
- Applicable wire: Power supply circuit Conductor AWG #24 to #14
Insulation O.D. 1.4 to 3.6mm
Signal circuit Applicable receptacle CZ, CZH
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

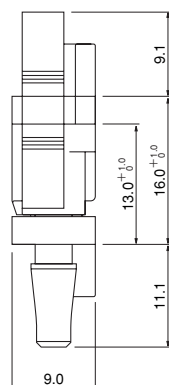
Recognized E60389

Certified LR20812

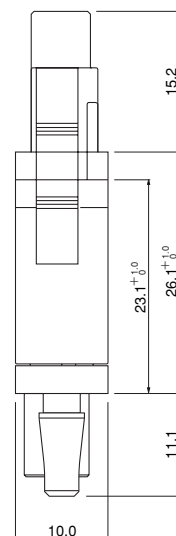
R50157902

Assembly layout

Signal circuit type



Hybrid type



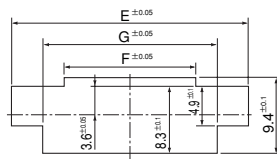
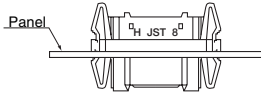
Panel layout

Plug

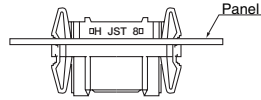
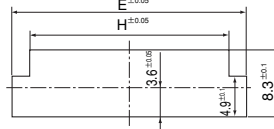
Signal circuit type

Panel thickness: 1.2mm, 1.6mm, 2.0mm

When mounting from mating side



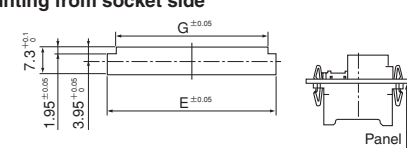
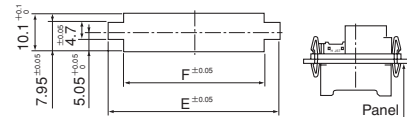
When mounting from socket side



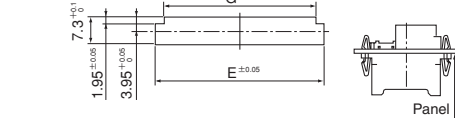
Hybrid type

Panel thickness: 1.2mm, 1.6mm, 2.0mm

When mounting from mating side



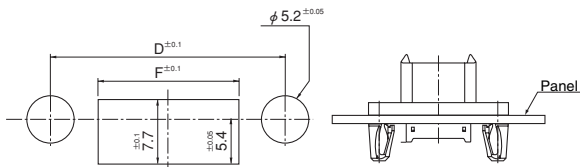
When mounting from socket side



Receptacle

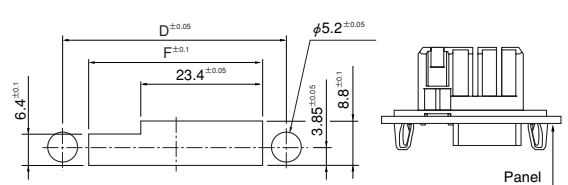
Signal circuit type

Panel thickness: 2.0mm



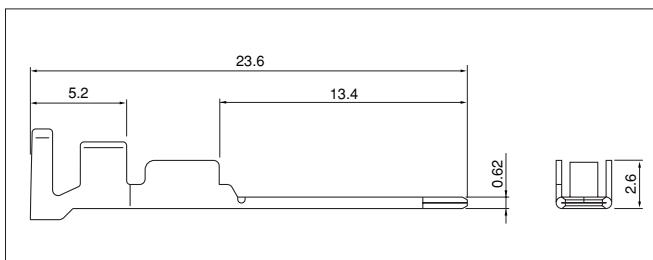
Hybrid type

Panel thickness: 2.0mm



- Note: 1. Punch holes in the panel according to the figures shown above. Burrs must be removed.
2. The strength of the panel must be considered when punching two or more holes.
3. The connector must be inserted from the same side as the hole is punched.

Plug contact for power supply circuit



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SRWM-01GG-S0.6	0.2 ~0.5	24~20	1.4 ~1.9	4,000
SRWM-21GG-S0.6	0.3 ~0.75	22~18	1.55~3.1	—
SRWM-61GG-S0.6	0.75~2.0	18~14	2.0 ~3.6	3,000

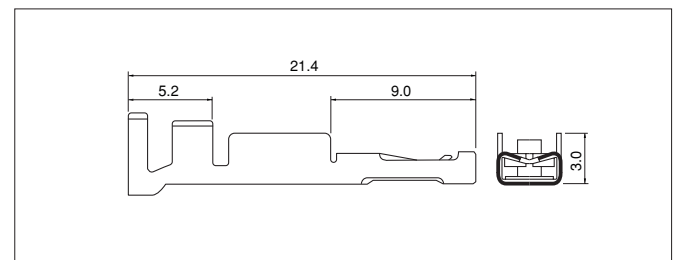
Material and Finish

Copper alloy, nickel-undercoated, Mating part; gold-plated
Crimping part; tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SRWM-01GG-S0.6	AP-K2N	MKS-L	MK/SRPF/M-01-06	APLMK SRPF/M01-06
		—	—	—
SRWM-21GG-S0.6		MKS-L	MK/SRPF/M-21-06	APLMK SRPF/M21-06
		—	—	—
SRWM-61GG-S0.6		MKS-L	MK/SRPF/M-61-06	APLMK SRPF/M61-06
		—	—	—

Receptacle contact for power supply circuit



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SRWF-01GG-M0.6	0.2 ~0.5	24~20	1.4 ~1.9	4,000
SRWF-21GG-M0.6	0.3 ~0.75	22~18	1.55~3.1	3,000
SRWF-61GG-M0.6	0.75~2.0	18~14	2.0 ~3.6	3,000

Material and Finish

Copper alloy, nickel-undercoated, Mating part; gold-plated
Crimping part; tin-plated (reflow treatment)

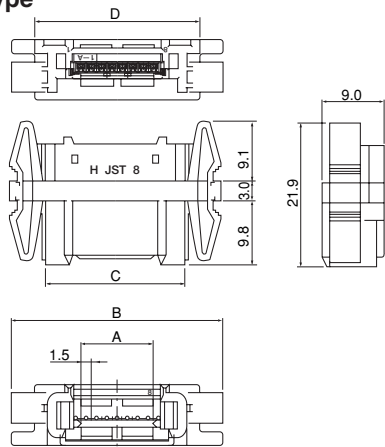
RoHS compliance This product displays (LF)(SN) on a label.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SRWF-01GG-M0.6	AP-K2N	MKS-L	MK/SRPF/M-01-06	APLMK SRPF/M01-06
		—	—	—
SRWF-21GG-M0.6		MKS-L	MK/SRPF/M-21-06	APLMK SRPF/M21-06
		—	—	—
SRWF-61GG-M0.6		MKS-L	MK/SRPF/M-61-06	APLMK SRPF/M61-06
		—	—	—

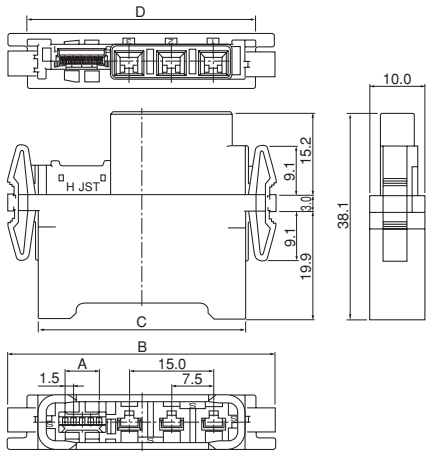
RIZ CONNECTOR

Plug

Signal circuit type



Hybrid type (Connector with integrated signal and power)



Circuits		Model No.	Dimensions (mm)								Q'ty / box	
Power supply	Signal		A	B	C	D	E		F	G		H
							±1.2	±1.6,2.0				
-	4	04P-RIZ-K2GG-RL	4.5	24.7	14.1	17.8	22.1	22.3	9.4	14.5	18.2	80
	6	06P-RIZ-K2GG-RL	7.5	27.7	17.1	20.8	25.1	25.3	12.4	17.5	21.2	80
	8	08P-RIZ-K2GG-RL	10.5	30.7	20.1	23.8	28.1	28.3	15.4	20.5	24.2	80
	10	10P-RIZ-K2GG-RL	13.5	33.7	23.1	26.8	31.1	31.3	18.4	23.5	27.2	80
	14	14P-RIZ-K2GG-RL	19.5	39.7	29.1	32.8	37.1	37.3	24.4	29.5	33.2	80

Material and Finish

Contact: Copper alloy, nickel-undercoated, selective gold-plated, tin-plated (reflow-treatment)
Housing: PBT, UL94V-0, black

RoHS compliance This product displays (LF)(SN) on a label.

Circuits		Model No.	Dimensions (mm)								Q'ty / box
Power supply	Signal		A	B	C	D	E		F	G	
							t=1.2	t=1.6,2.0			
3	7	07P-RIZ-K2GG-S3RL	9.0	50.3	39.7	43.4	47.7	47.9	39.9	43.6	60
	8	08P-RIZ-K2GG-S3RL	10.5	51.8	41.2	44.9	49.2	49.4	41.4	45.1	80
	13	13P-RIZ-K2GG-S3RL	18.0	59.3	48.7	52.4	56.7	56.9	48.9	52.6	45

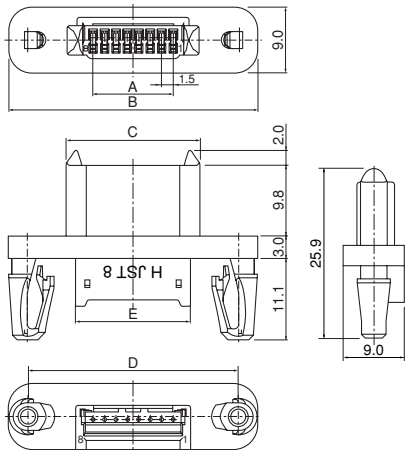
Material and Finish

Contact: Copper alloy, nickel-undercoated, selective gold-plated, tin-plated (reflow treatment)
Housing: PBT, UL94V-0, black

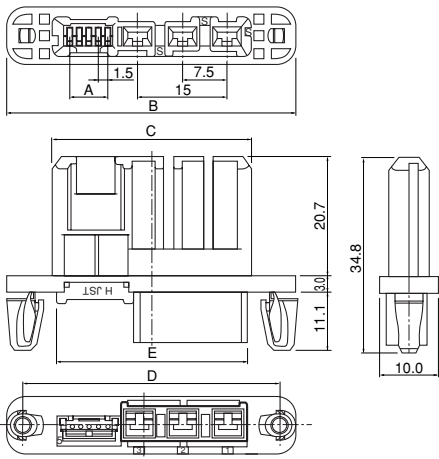
RoHS compliance This product displays (LF)(SN) on a label.

Receptacle

Signal circuit type



Hybrid type (Connector with integrated signal and power)



Circuits		Model No.	Dimensions (mm)						Q'ty / box
Power supply	Signal		A	B	C	D	E	F	
-	4	04R-RIZ-K4GG-FL	4.5	26.5	11.3	21.6	9.0	10.8	80
	6	06R-RIZ-K4GG-FL	7.5	29.5	14.3	24.6	12.0	13.8	80
	8	08R-RIZ-K4GG-FL	10.5	32.5	17.3	27.6	15.0	16.8	80
	10	10R-RIZ-K4GG-FL	13.5	35.5	20.3	30.6	18.0	19.8	80
	14	14R-RIZ-K4GG-FL	19.5	41.5	26.3	36.6	24.0	25.8	60

Material and Finish

Contact: Copper alloy, nickel-undercoated, selective gold-plated, tin-plated (reflow-treatment)
Housing: PBT, UL94V-0, black

RoHS compliance This product displays (LF)(SN) on a label.

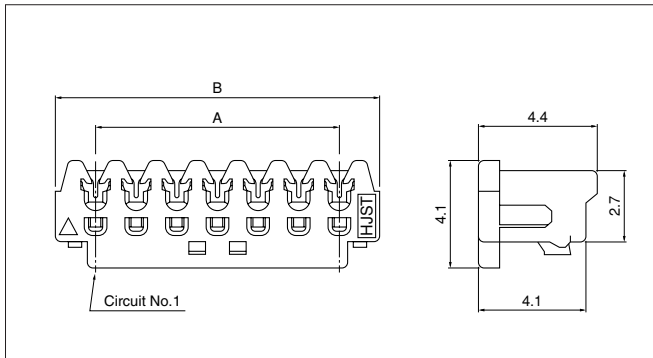
Circuits		Model No.	Dimensions (mm)							Q'ty / box
Power supply	Signal		A	B	C	D	E	F		
3	7	07R-RIZ-K4GG-SQ3FL	9.0	52.6	36.5	47.7	35.1	36.9	75	
	8	08R-RIZ-K4GG-SQ3FL	10.5	54.1	38.0	49.2	36.6	38.4	75	
	13	13R-RIZ-K4GG-SQ3FL	18.0	61.6	45.5	56.7	44.1	45.9	60	

Material and Finish

Contact: Copper alloy, nickel-undercoated, selective gold-plated, tin-plated (reflow-treatment)
Housing: PBT, UL94V-0, black

RoHS compliance This product displays (LF)(SN) on a label.

CZ connector socket



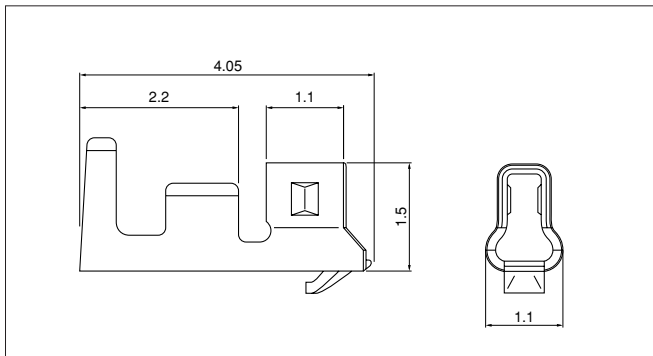
Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Gray	Yellow	A	B	
4	04CZ-6H	04CZ-6Y	4.5	7.5	2,000
6	06CZ-6H	06CZ-6Y	7.5	10.5	2,000
7	07CZ-6H	07CZ-6Y	9.0	12.0	2,000
8	08CZ-6H	08CZ-6Y	10.5	13.5	2,000
10	10CZ-6H	10CZ-6Y	13.5	16.5	1,000
13	13CZ-6H	13CZ-6Y	18.0	21.0	1,000
14	14CZ-6H	14CZ-6Y	19.5	22.5	1,000

Material and Finish

Contact: Copper alloy, tin-plated (reflow treatment)
Housing: Glass-filled PA 66, UL94V-0

RoHS compliance

CZH connector contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SCZH-002T-P0.5	0.08~0.13	28~26	0.8~1.1	13,000

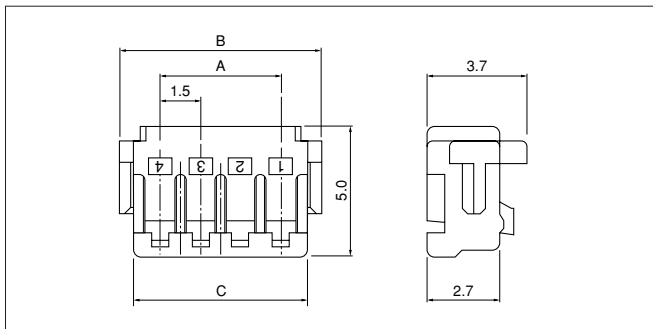
Material and Finish

Copper alloy, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SCZH-002T-P0.5	AP-K2N	MKS-L	MK/SCZH-002-05	APLMK SCZH002-05
		—	—	—

CZH connector housing

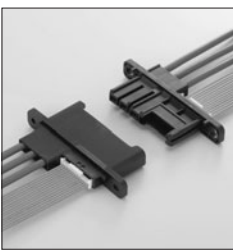


Circuits	Model No.	Dimensions (mm)			Q'ty / box
		A	B	C	
4	CZHR-04V-S	4.5	7.5	6.5	1,000
6	CZHR-06V-S	7.5	10.5	9.5	1,000
7	CZHR-07V-S	9.0	12.0	11.0	1,000
8	CZHR-08V-S	10.5	13.5	12.5	1,000
10	CZHR-10V-S	13.5	16.5	15.5	1,000
13	CZHR-13V-S	18.0	21.0	20.0	1,000
14	CZHR-14V-S	19.5	22.5	21.5	1,000

Material

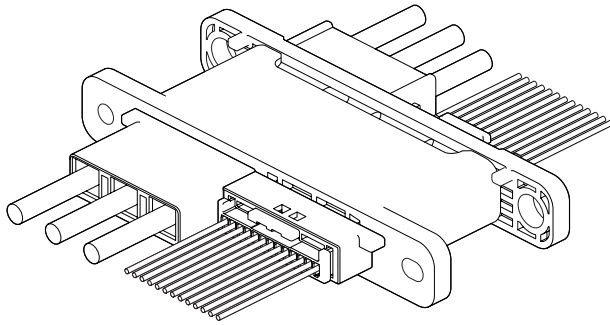
PBT, UL94V-0, natural (white)

RoHS compliance



RIZ CONNECTOR L-Type

Disconnectable Crimp style Wire-to-wire connectors



This connector is a hybrid type single-row drawer connector combined signal and power supply circuits connector to connect the units, absorbs misalignment between units, and excels durability. RIZ connector with lever locking device is adopted as applicable socket to prevent incomplete mating.

- Space saving
- High durability
- Hybrid type
- Signal circuit 1.5mm pitch lever-locking type

Specifications

- Current rating: Signal circuit/1.0A AC, DC (AWG#26)
Power supply circuit/15A AC, DC (AWG#14)
- Voltage rating: Signal circuit/50V AC, DC
Power supply circuit/250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Signal circuit Initial value/40mΩ max.
After environmental testing/60mΩ max.
Power supply circuit Initial value/10mΩ max.
After environmental testing/20mΩ max.
- Insulation resistance: 500MΩ min.
- Withstanding voltage: Signal circuit 500V AC/minute
Power supply circuit 1,500V AC/minute
- Applicable wire: Signal circuit Applicable socket/RCZ connector
Power supply circuit Conductor size/AWG#24 to #14
Insulation O.D./1.4 to 3.6mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

- ✓ Recognized E 60389
- ✓ Certified LR 20812
- ✓ R50157902

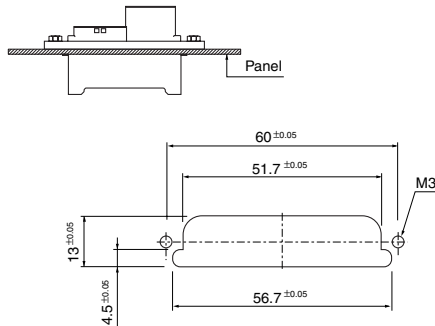
Panel layout and Assembly layout

Plug

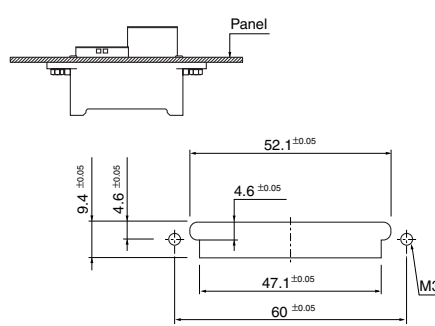
Hybrid type

Panel thickness: $t0.8$ to 2.0mm

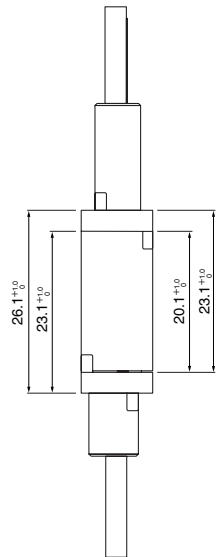
When mounting from mating side



When mounting from socket side



Hybrid type

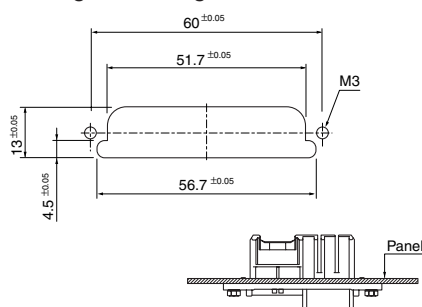


Receptacle

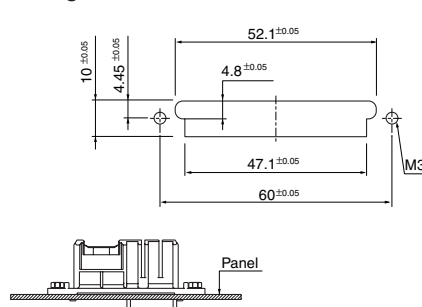
Hybrid type

Panel thickness: $t0.8$ to 2.0mm

When mounting from mating side



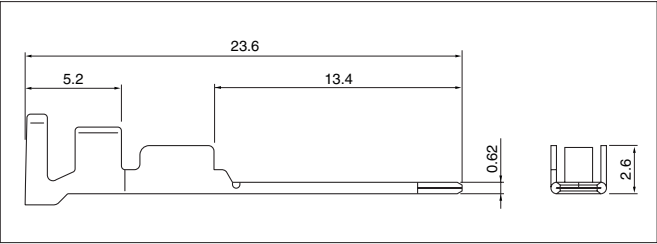
When mounting from socket side



- Note: 1. Punch holes in the panel according to the figures shown above. Burrs must be removed.
2. The strength of the panel must be considered when punching two or more holes.
3. The connector must be inserted from the same side as the hole is punched.

RIZ CONNECTOR L-Type

Plug contact for power supply circuit



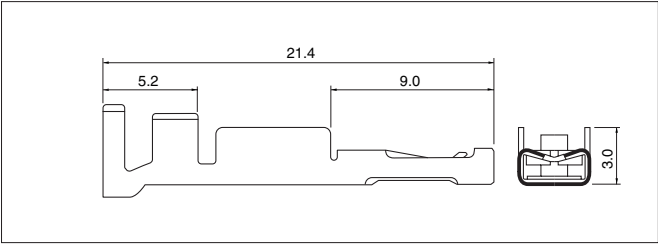
Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SRWM-01GG-S0.6	0.2 ~0.5	24~20	1.4 ~1.9	4,000
SRWM-21GG-S0.6	0.3 ~0.75	22~18	1.55~3.1	3,000
SRWM-61GG-S0.6	0.75~2.0	18~14	2.0 ~3.6	3,000

Material and Finish				
Copper alloy, nickel-undercoated, Mating part; gold-plated				
Crimping part; tin-plated (reflow treatment)				

RoHS compliance This product displays (LF)(SN) on a label.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SRWM-01GG-S0.6	AP-K2N	MKS-L	MK/SRPF/M-01-06	APLMK SRPF/M01-06
		—	—	—
SRWM-21GG-S0.6		MKS-L	MK/SRPF/M-21-06	APLMK SRPF/M21-06
		—	—	—
SRWM-61GG-S0.6		MKS-L	MK/SRPF/M-61-06	APLMK SRPF/M61-06
		—	—	—

Receptacle contact for power supply circuit



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SRWF-01GG-M0.6	0.2 ~0.5	24~20	1.4 ~1.9	4,000
SRWF-21GG-M0.6	0.3 ~0.75	22~18	1.55~3.1	3,000
SRWF-61GG-M0.6	0.75~2.0	18~14	2.0 ~3.6	3,000

Material and Finish				
Copper alloy, nickel-undercoated, Mating part; gold-plated				
Crimping part; tin-plated (reflow treatment)				

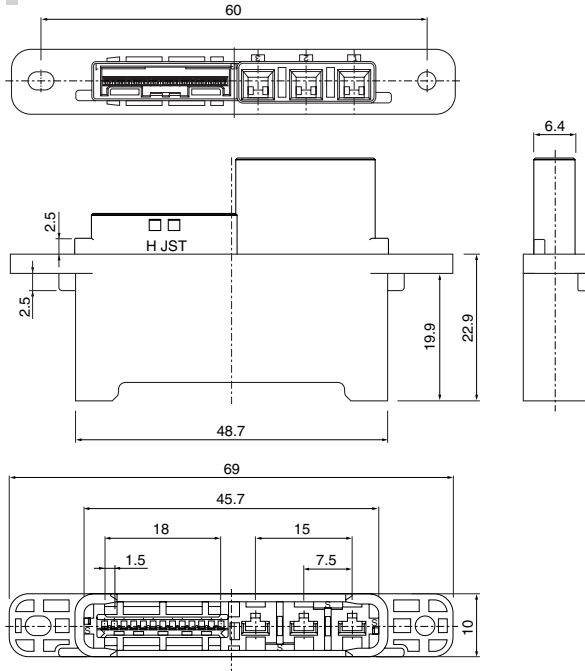
RoHS compliance This product displays (LF)(SN) on a label.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SRWF-01GG-M0.6	AP-K2N	MKS-L	MK/SRPF/M-01-06	APLMK SRPF/M01-06
		—	—	—
SRWF-21GG-M0.6		MKS-L	MK/SRPF/M-21-06	APLMK SRPF/M21-06
		—	—	—
SRWF-61GG-M0.6		MKS-L	MK/SRPF/M-61-06	APLMK SRPF/M61-06
		—	—	—

RIZ CONNECTOR L-Type

Plug

Hybrid type (Connector with integrated signal and power)



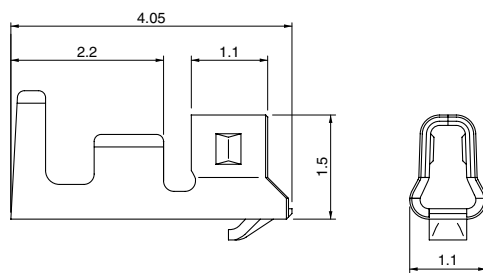
Circuits		Model No.	Q'ty / box
Power supply	Signal		
3	13	13LP-RIZ-K2GG-S3	45

Material and Finish

Contact: Copper alloy, nickel-undercoated, selective gold-plated tin-plated (reflow-treatment)
Housing: PBT, UL94V-0, black

RoHS compliance This product displays (LF)(SN) on a label.

CZH connector contact (for RCZ connector)



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SCZH-002T-P0.5	0.08~0.13	28~26	0.8~1.1	13,000

Material and Finish

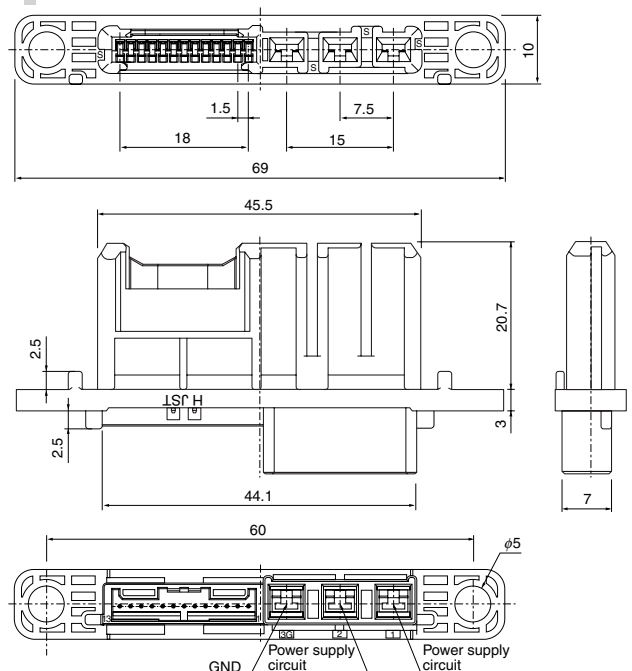
Copper alloy, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SCZH-002T-P0.5	AP-K2N	MKS-L	MK/SCZH-002-05	APLMK SCZH002-05

Receptacle

Hybrid type (Connector with integrated signal and power)



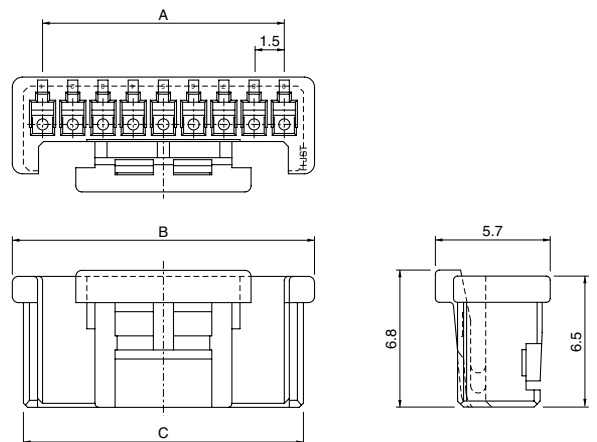
Circuits		Model No.	Q'ty / box
Power supply	Signal		
3	13	13LR-RIZ-K4GG-SR3	60

Material and Finish

Contact: Copper alloy, nickel-undercoated, selective gold-plated tin-plated (reflow-treatment)
Housing: PBT, UL94V-0, black

RoHS compliance This product displays (LF)(SN) on a label.

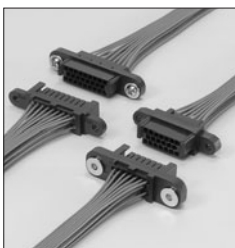
RCZ connector socket housing



Circuits	Model No.	Dimensions (mm)			Q'ty / bag
		A	B	C	
13	RCZR-13V-PS	18.0	21.0	19.9	1,000

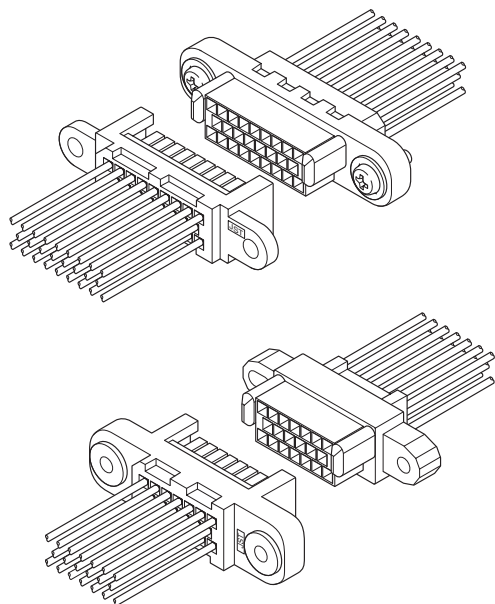
PA 66, UL94V-0

RoHS compliance This product displays (LF)(SN) on a label.



RPJ CONNECTOR

2.7mm pitch/Disconnectable Crimp style Wire-to-wire connectors



The pin and socket are adopted for use as the small rack panel connector.

- Compact design
- Structure
- Contact lance

Specifications

- Current rating: 2A AC, DC (AWG #24)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/20m Ω max.
After environmental testing/30m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,000V AC/minute
- Applicable wire: AWG #28 to #24
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

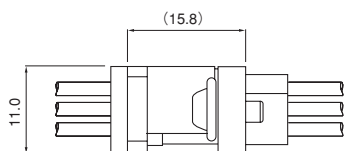
Recognized E60389

Certified LR20812

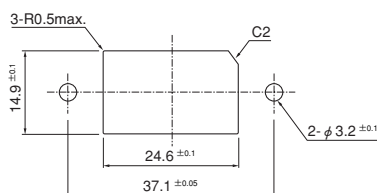
J50185783

Panel layout and Assembly layout

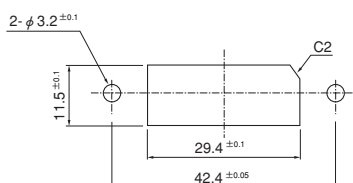
Plug



(20 circuits)



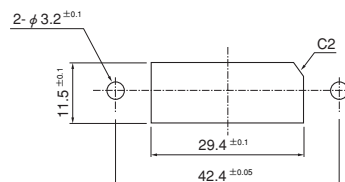
(26 circuits)



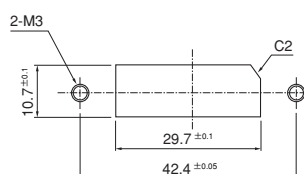
Receptacle



(20 circuits)



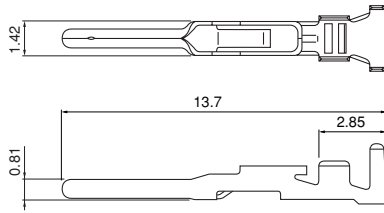
(26 circuits)



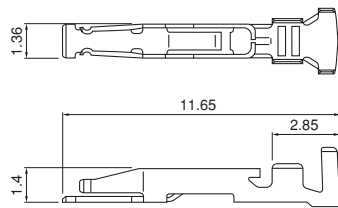
RPJ CONNECTOR

Contact

Pin contact



Socket contact



Model No.		Applicable wire		Insulation O.D. (mm)	Q'ty / reel
Pin contact	Socket contact	mm ²	AWG #		
RPJ-SP2331	RPJ-SS2331	0.08~0.22	28~24	0.9~1.5	10,000

Material and Finish

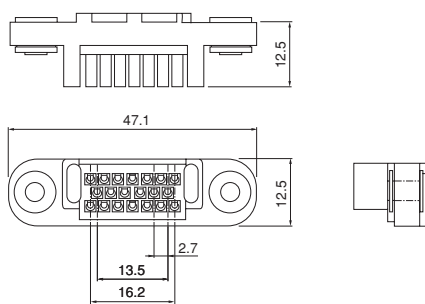
Phosphor bronze, nickel-undercoated, gold-plated

RoHS compliance

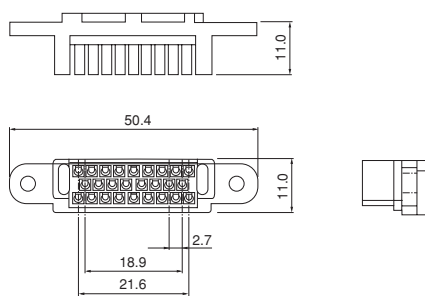
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
RPJ-SP2331	AP-K2N	MKS-L	MK/RPJ-SP/SS2	APLMK RPJ-SP/SS2
RPJ-SS2331		—	—	—

Plug housing (for socket contact)

(20 circuits)



(26 circuits)



Circuits	Model No.	Q'ty / box
20	RPJ-20PRW	50
26	RPJ-26P	50

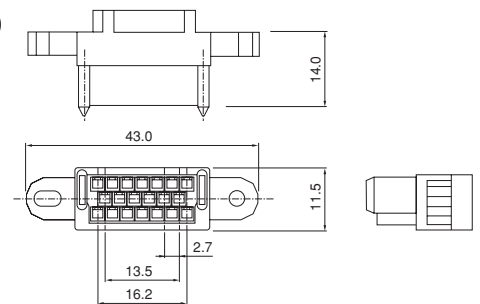
Material and Finish

Plug housing: Glass-filled PBT, UL94V-0
Washer: Brass, nickel-plated (RPJ-20PRW)
Rivet: Brass, nickel-plated (RPJ-20PRW)

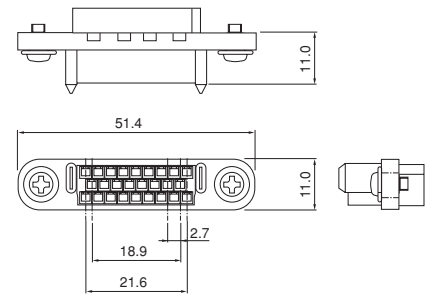
RoHS compliance

Receptacle housing (for pin contact)

(20 circuits)



(26 circuits)



Circuits	Model No.	Q'ty / box
20	RPJ-20R	50
26	RPJ-26RS	50

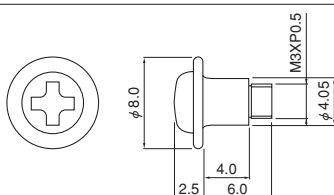
Material

Receptacle housing: Glass-filled PBT, UL94V-0

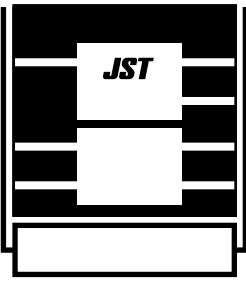
RoHS compliance

Note: Two screws are supplied under the same package of RPJ-26RS.

Screw



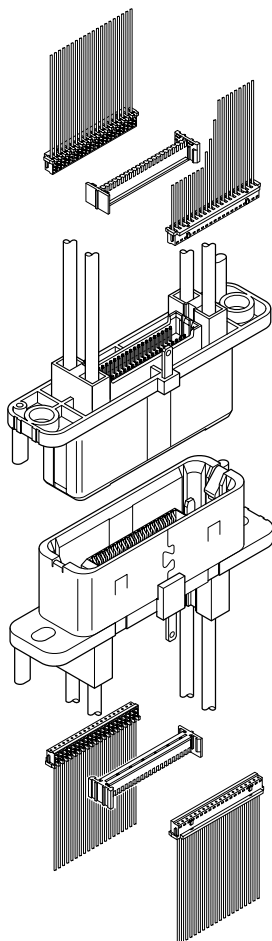
Note: Two screws are supplied for one receptacle housing, RPJ-26RS.



RPZ CONNECTOR



Power supply circuit and signal circuit integrated hybrid type drawer connector.



Features

• Durability

The contacts are bellows type, thus the connector is guaranteed for 20,000 mating cycles.

• ESD shielding

Both plug and receptacle have the ESD shielding shell.

• Grounding device

For the grounding purpose, #110 tab is equipped with this connector.

Specifications

- Current rating: Signal circuit 1.0A AC, DC (AWG #26)
Power supply circuit 15A AC, DC (AWG #14)
Tab 10A AC, DC (PS connector AWG #16)
 - Voltage rating: Signal circuit 50V AC, DC
Power supply circuit 250V AC, DC
 - Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
 - Contact resistance: Signal circuit Initial value/40m Ω max.
After environmental testing/60m Ω max.
Power supply circuit Initial value/10m Ω max.
After environmental testing/20m Ω max.
 - Insulation resistance: 500M Ω min.
 - Withstanding voltage: Power-Signal 3,000V AC/minute
Power-Grounding 1,500V AC/minute
Power-Shell 1,500V AC/minute
 - Applicable wire: Conductor Power supply circuit AWG #24 to #14
Tab(PS connector) AWG #24 to #16
Insulation O.D. Power supply circuit 1.4 to 3.6mm
Tab(PS connector) 1.0 to 3.4mm
- * Compliant with RoHS.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

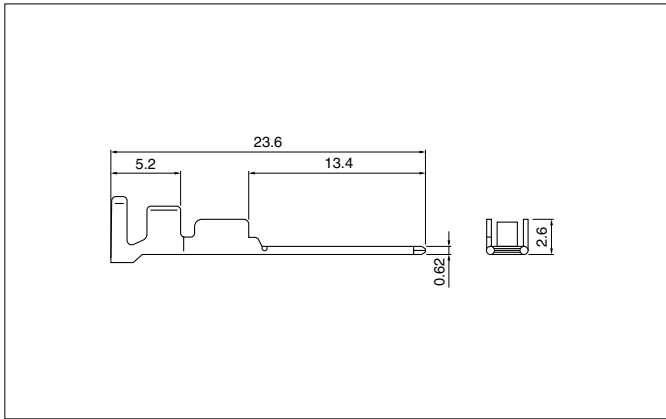
Standards

Recognized E 60389

Certified LR 20812

RPZ CONNECTOR

Power supply circuit contact plug



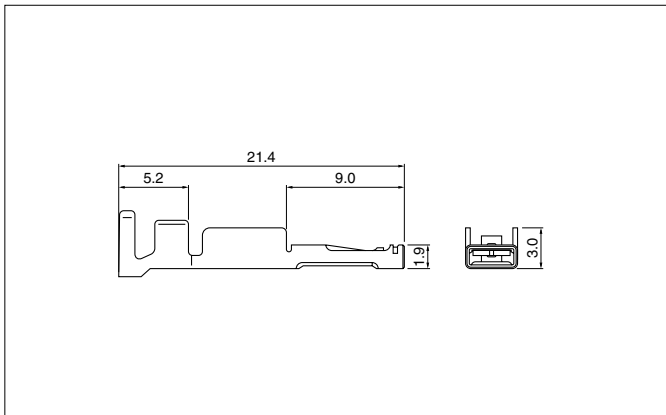
Model No.	Applicable wire			Q'ty / reel
	mm²	AWG #	Insulation O.D. (mm)	
SRPM-61GG-P0.6	0.75 to 2.0	18 to 14	2.0 to 3.6	3,000
SRPM-01GG-P0.6	0.2 to 0.5	24 to 20	1.4 to 1.9	4,000

Material and Finish

Copper alloy, nickel-undercoated, Mating part; gold-plated
Crimping part; tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Power supply circuit contact receptacle



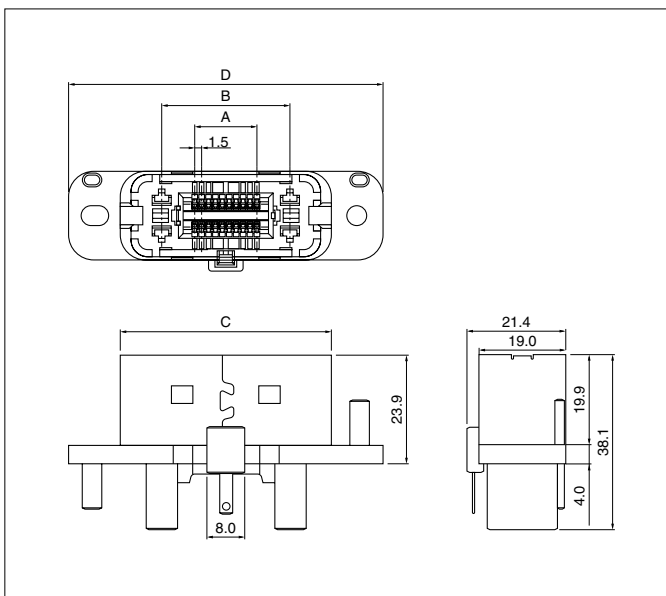
Model No.	Applicable wire			Q'ty / reel
	mm²	AWG #	Insulation O.D. (mm)	
SRPF-61GG-P0.6	0.75 to 2.0	18 to 14	2.0 to 3.6	3,000
SRPF-01GG-P0.6	0.2 to 0.5	24 to 20	1.4 to 1.9	4,000

Material and Finish

Copper alloy, nickel-undercoated, Mating part; gold-plated
Crimping part; tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Plug



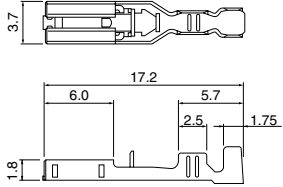
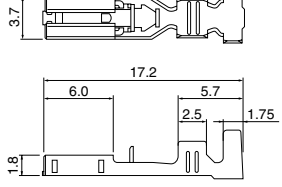
Circuits	Model No.	Dimensions (mm)							Q'ty/ box
		A	B	C	D	E	F	G	
20	20P-RPZV-K4GG	13.5	27.5	45.6	67.5	35.1	56.5	46.6	120
24	24P-RPZV-K4GG	16.5	30.5	48.6	70.5	38.1	59.5	49.6	120
26	26P-RPZV-K4GG	18.0	32.0	50.1	72.0	39.6	61.0	51.1	120
32	32P-RPZV-K4GG	22.5	36.5	54.6	76.5	44.1	65.5	55.6	120
40	40P-RPZV-K4GG	28.5	42.5	60.6	82.5	50.1	71.5	61.6	120

Material and Finish

Contact: Copper alloy, nickel-undercoated, selective gold-plated, tin-plated (reflow treatment)
Housing: PBT, UL94V-0
Solder tab: Copper alloy, nickel-plated
Shell: Copper alloy, nickel-plated

RoHS compliance This product displays (LF)(SN) on a label.

PS contact

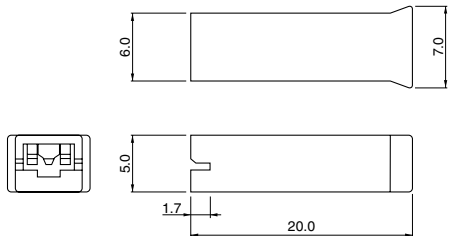
SPS-01T-110 	SPS-41T-110 
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Model No.	Applicable wire			Q'ty / reel
	mm ²	AWG #	Insulation O.D. (mm)	
SPS-01T-110	0.21 to 0.5	24 to 20	1.0 to 2.5	10,000
SPS-41T-110	0.5 to 1.25	20 to 16	1.9 to 3.4	10,000

Material and Finish				
Brass, tin-plated (reflow treatment)				

RoHS compliance

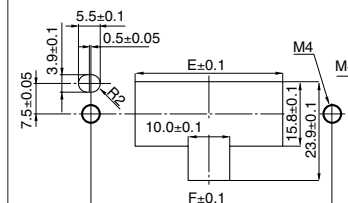
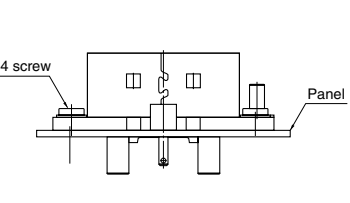
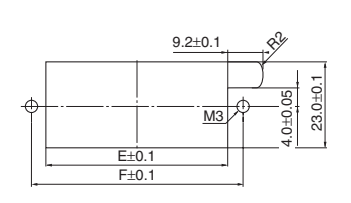
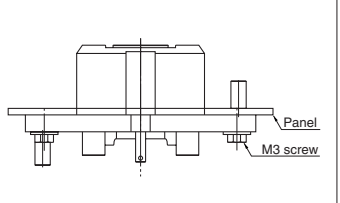
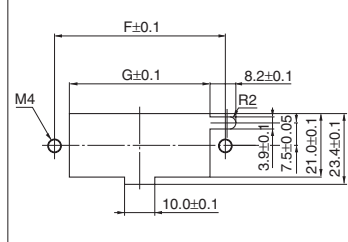
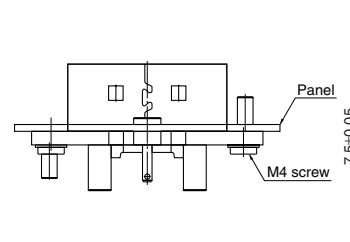
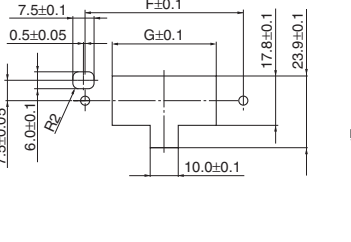
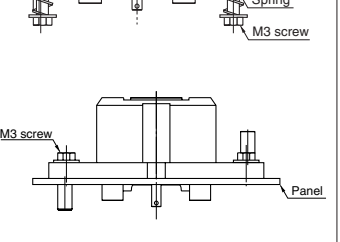
PS housing



Model No.	Material	Q'ty / bag
PS-110	PA 66, UL94V-0, natural (white)	1,000

RoHS compliance

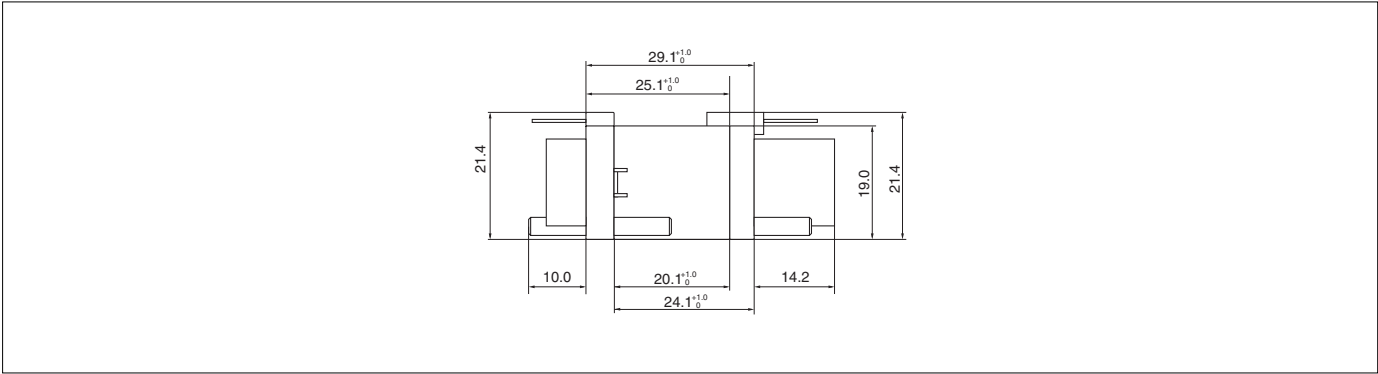
Panel layout

Plug		Receptacle	
			
			

Note: 1. Reference layout when misalignment of the mating axis is to be absorbed.
 2. Punch holes in the panel according to the sketch and table shown above. Burrs must be removed.
 3. The strength of the panel must be considered when punching two or more holes.
 4. The connector must be inserted from the same side as the hole is punched.

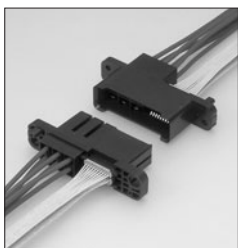
RPZ CONNECTOR

Assembly layout



Crimping machine, Applicator

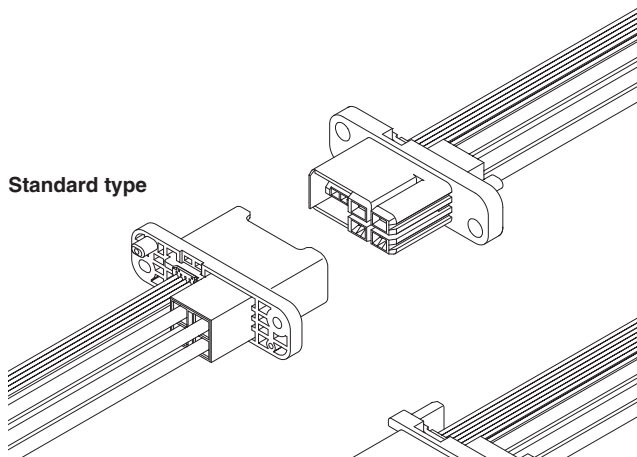
Contact	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies
SPS-01T-110	AP-K2N	MKS-L-SPS	MK/SPS-01-110	APLMK SPS01-110
SPS-41T-110		MKS-L-SPS	MK/SPS-41-110	APLMK SPS41-110
SRPM-01GG-P0.6		MKS-L	MK/SRPF/M-01-06	APLMK SRPF/M01-06
SRPM-61GG-P0.6		MKS-L	MK/SRPF/M-61-06	APLMK SRPF/M61-06
SRPF-01GG-P0.6		MKS-L	MK/SRPF/M-01-06	APLMK SRPF/M01-06
SRPF-61GG-P0.6		MKS-L	MK/SRPF/M-61-06	APLMK SRPF/M61-06



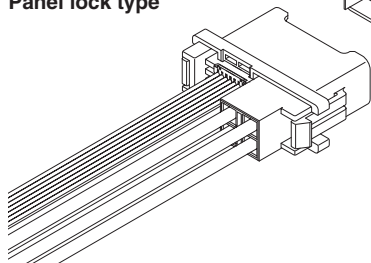
RWZ CONNECTOR

Disconnectable Crimp style Wire-to-wire connectors

Standard type



Panel lock type



In unit connection, this RWZ connector is a hybrid type double row drawer connector with combined signal and power supply circuits, absorbs misalignment between units, and excels durability.

- High durability
- Absorbed misalignment mechanism
- Space saving
- Hybrid type

Specifications

- Current rating: Signal circuit 1.0A AC, DC (AWG #26)
Power supply circuit 15A AC, DC (AWG #14)
- Voltage rating: Signal circuit 50V AC, DC
Power supply circuit 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance:

Signal circuit	Initial value/40m Ω max.
	After environmental testing/60m Ω max.
Power supply circuit	Initial value/10mΩ max.
	After environmental testing/20m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: Signal circuit 500V AC
Power supply circuit 1,500V AC
- Applicable wire: Power supply circuit Conductor AWG #24 to #14
Insulation O.D. 1.4 to 3.6mm
Signal circuit Applicable receptacle CZ, CZH
- Mounting method: Screw, panel lock
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

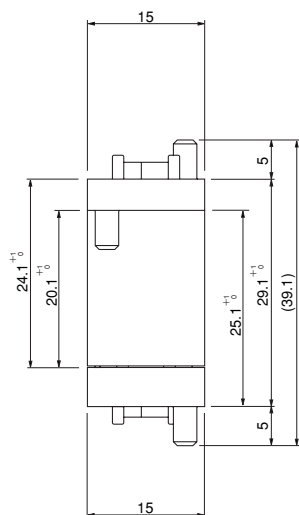
Standards

Recognized E60389

Certified LR20812

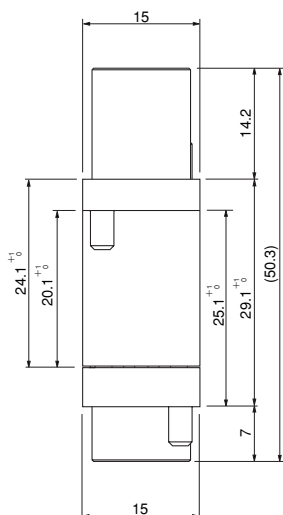
Standard type

Signal type



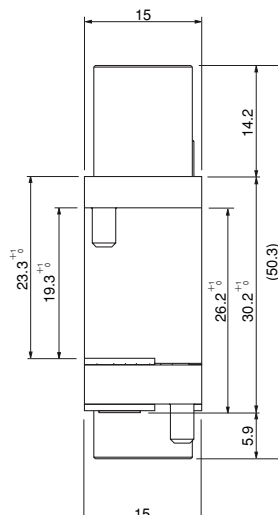
Standard type

Hybrid type



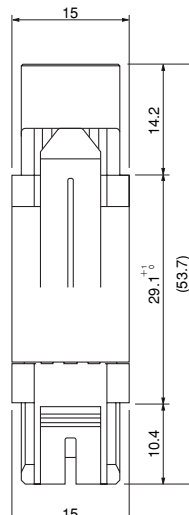
Floating bushing type

Hybrid type



Panel lock type

Hybrid type

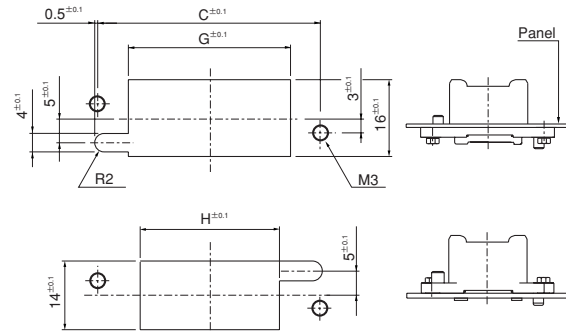


Panel layout

Plug

Standard type

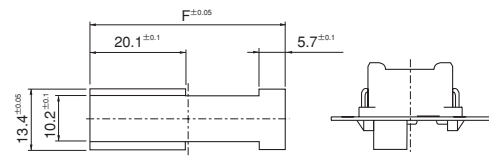
Panel thickness: 0.8 to 2.0mm



Plug

Panel lock type

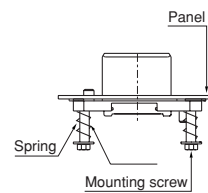
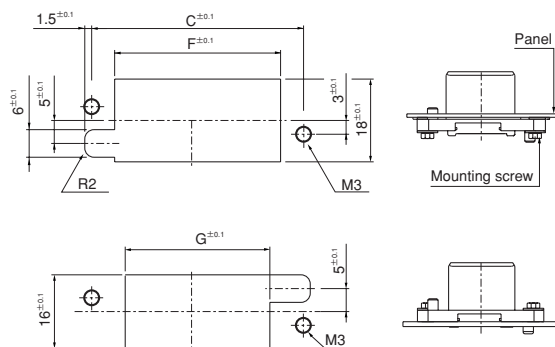
Panel thickness: 2.0mm



Receptacle

Standard type

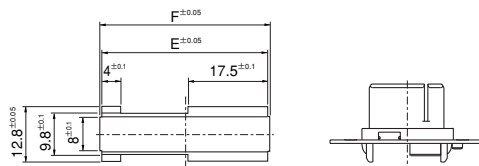
Panel thickness: 0.8 to 2.0mm



Receptacle

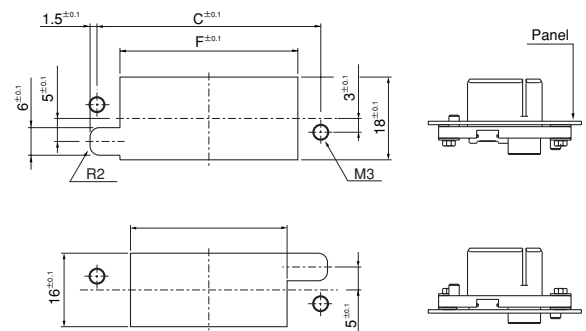
Panel lock type

Panel thickness: 1.2mm, 1.6mm, 2.0mm



Floating bushing type

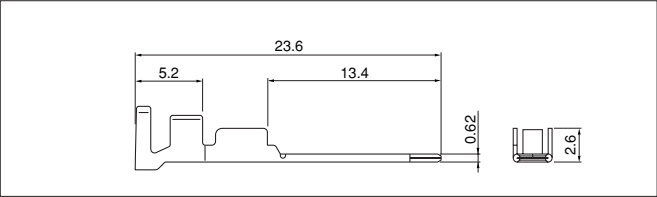
Panel thickness: 0.8 to 2.0mm



- Note: 1. Punch holes in the panel according to the figures shown above. Burrs must be removed.
 2. The strength of the panel must be considered when punching two or more holes.
 3. The connector must be inserted from the same side as the hole is punched.

RWZ CONNECTOR

Plug contact for power supply circuit



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SRWM-01GG-S0.6	0.2 ~0.5	24~20	1.4 ~1.9	4,000
SRWM-21GG-S0.6	0.3 ~0.75	22~18	1.55~3.1	3,000
SRWM-61GG-S0.6	0.75~2.0	18~14	2.0 ~3.6	3,000

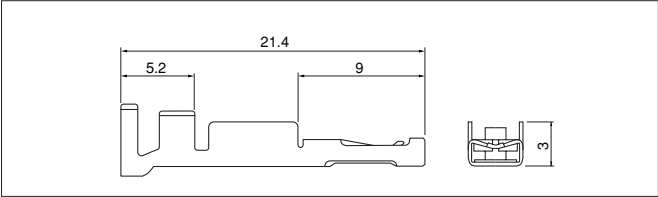
Material and Finish

Copper alloy, nickel-undercoated, Mating part; gold-plated
Crimping part; tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SRWM-01GG-S0.6	AP-K2N	MKS-L	MK/SRPF/M-01-06	APLMK SRPF/M01-06
		—	—	—
SRWM-21GG-S0.6		MKS-L	MK/SRPF/M-21-06	APLMK SRPF/M21-06
		—	—	—
SRWM-61GG-S0.6		MKS-L	MK/SRPF/M-61-06	APLMK SRPF/M61-06
		—	—	—

Receptacle contact for power supply circuit



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SRWF-01GG-M0.6	0.2 ~0.5	24~20	1.4 ~1.9	4,000
SRWF-21GG-M0.6	0.3 ~0.75	22~18	1.55~3.1	3,000
SRWF-61GG-M0.6	0.75~2.0	18~14	2.0 ~3.6	3,000

Material and Finish

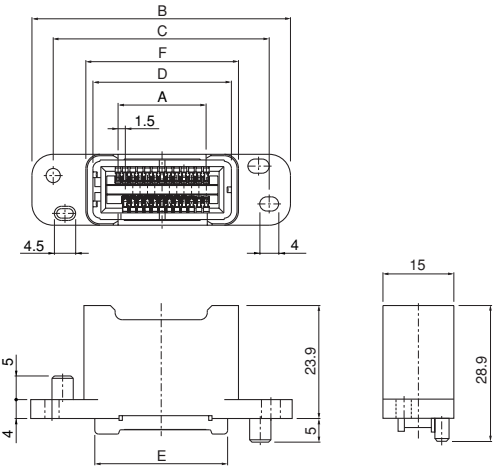
Copper alloy, nickel-undercoated, Mating part; gold-plated
Crimping part; tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SRWF-01GG-M0.6	AP-K2N	MKS-L	MK/SRPF/M-01-06	PLMK SRPF/M01-06
		—	—	—
SRWF-21GG-M0.6		MKS-L	MK/SRPF/M-21-06	APLMK SRPF/M21-06
		—	—	—
SRWF-61GG-M0.6		MKS-L	MK/SRPF/M-61-06	APLMK SRPF/M61-06
		—	—	—

Plug

Standard/Signal circuit type



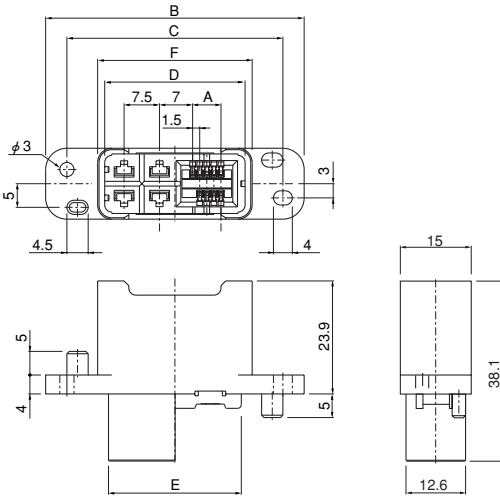
Circuits		Model No.	Dimensions (mm)								Q'ty / box
Power supply	Signal		A	B	C	D	E	F	G	H	
—	25	25P-RWZV-K4GG	18.0	53.2	44.2	28.2	26.6	31.2	32.2	27.6	240
	31	31P-RWZV-K4GG	22.5	57.7	48.7	32.7	31.1	35.7	36.7	32.1	216
	33	33P-RWZV-K4GG	24.0	59.2	50.2	34.2	32.6	37.2	38.2	33.6	192

Material and Finish

Contact: Copper alloy, nickel-undercoated, selective gold-plated, tin-plated (reflow treatment)
Housing: PBT, UL94V-0, black

RoHS compliance This product displays (LF)(SN) on a label.

Standard/ Hybrid type (Connector with integrated signal and power)



Circuits		Model No.	Dimensions (mm)								Q'ty / box
Power supply	Signal		A	B	C	D	E	F	G	H	
2	39	39P-RWZV-K4GG-P2	28.5	69.7	60.7	44.7	43.1	47.7	48.7	44.1	168
	9	09P-RWZV-K4GG-P4	6.0	54.7	45.7	29.7	28.1	32.7	33.7	29.1	216
4	13	13P-RWZV-K4GG-P4	9.0	57.7	48.7	32.7	31.1	35.7	36.7	32.1	216
	21	21P-RWZV-K4GG-P4	15.0	63.7	54.7	38.7	37.1	41.7	42.7	38.1	192
6	19	19P-RWZV-K4GG-P6	13.5	69.7	60.7	44.7	43.1	47.7	48.7	44.1	168
	23	23P-RWZV-K4GG-P6	16.5	72.7	63.7	47.7	46.1	50.7	51.7	47.1	144

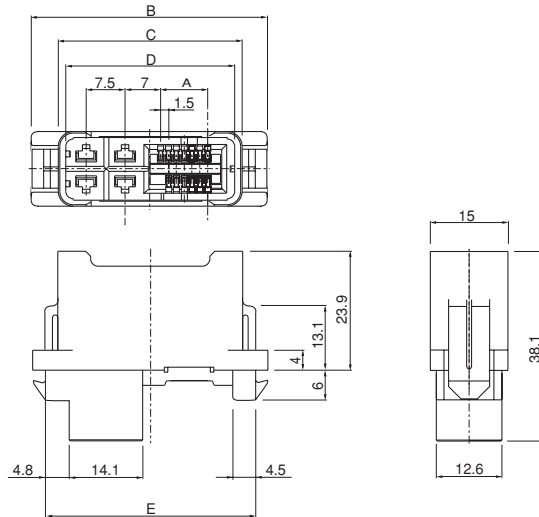
Material and Finish

Signal contact: Copper alloy, nickel-undercoated, selective gold-plated, tin-plated (reflow treatment)
Housing: PBT, UL94V-0, black

RoHS compliance This product displays (LF)(SN) on a label.

Plug

Panel lock/ Hybrid type (Connector with integrated signal and power)



Circuits		Model No.	Dimensions (mm)						Q'ty / box
Power supply	Signal		A	B	C	D	E	F	
4	13	13P-RWZV-K4GG-P4FL	9.0	45.5	35.7	32.7	40.7	41.5	216

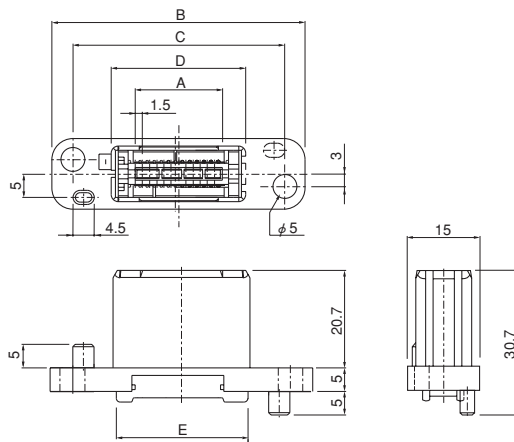
Material and Finish

Signal contact: Copper alloy, nickel-undercoated, selective gold-plated, tin-plated (reflow treatment)
Housing: PBT, UL94V-0, black

RoHS compliance This product displays (LF)(SN) on a label.

Receptacle

Standard/Signal circuit type



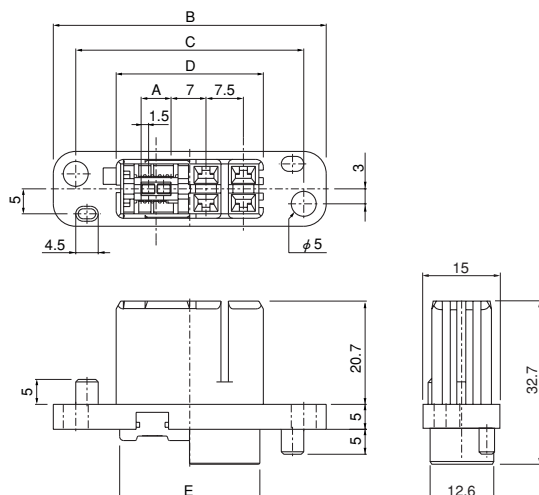
Circuits		Model No.	Dimensions (mm)							Q'ty / box
Power supply	Signal		A	B	C	D	E	F	G	
25		25R-RWZV-K2GG	18.0	53.2	44.2	28.0	26.6	34.2	29.6	240
31		31R-RWZV-K2GG	22.5	57.7	48.7	32.5	31.1	38.7	34.1	216
33		33R-RWZV-K2GG	24.0	59.2	50.2	34.0	32.6	40.2	35.6	240

Material and Finish

Contact: Copper alloy, nickel-undercoated, selective gold-plated, tin-plated (reflow treatment)
Housing: PBT, UL94V-0, black

RoHS compliance This product displays (LF)(SN) on a label.

Standard/ Hybrid type (Connector with integrated signal and power)



Circuits		Model No.	Dimensions (mm)							Q'ty / box
Power supply	Signal		A	B	C	D	E	F	G	
2	39	39R-RWZV-K2GG-P2	28.5	69.7	60.7	44.5	43.1	50.7	46.1	168
9		09R-RWZV-K2GG-P4	6.0	54.7	45.7	29.5	28.1	35.7	31.1	216
4	13	13R-RWZV-K2GG-P4	9.0	57.7	48.7	32.5	31.1	38.7	34.1	216
21		21R-RWZV-K2GG-P4	15.0	63.7	54.7	38.5	37.1	44.7	40.1	192
6	19	19R-RWZV-K2GG-P6	13.5	69.7	60.7	44.5	43.1	50.7	46.1	168
23		23R-RWZV-K2GG-P6	16.5	72.7	63.7	47.5	46.1	53.7	49.1	144

Material and Finish

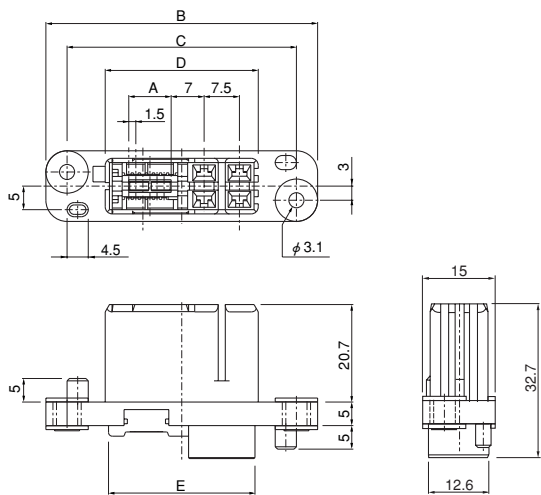
Signal contact: Copper alloy, nickel-undercoated, selective gold-plated, tin-plated (reflow treatment)
Housing: PBT, UL94V-0, black

RoHS compliance This product displays (LF)(SN) on a label.

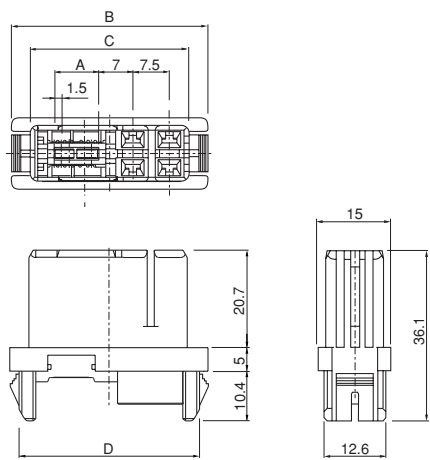
RWZ CONNECTOR

Receptacle

Floating bushing/ Hybrid type (Connector with integrated signal and power)



Panel lock/ Hybrid type (Connector with integrated signal and power)



Circuits		Model No.	Dimensions (mm)							Q'ty / box
Power supply	Signal		A	B	C	D	E	F	G	
2	39	39R-RWZV-K2GG-P2BM	28.5	69.7	60.7	44.5	43.1	50.7	46.1	168
4	9	09R-RWZV-K2GG-P4BM	6.0	54.7	45.7	29.7	28.1	35.7	31.1	216
4	21	21R-RWZV-K2GG-P4BM	15.0	63.7	54.7	38.5	37.1	44.7	40.1	192

Material and Finish

Signal contact: Copper alloy, nickel-undercoated, selective gold-plated, tin-plated (reflow treatment)
Housing: PBT, UL94V-0, black
Washer: Copper alloy, nickel-plated
Floating rivet: Copper alloy, nickel-plated

RoHS compliance This product displays (LF)(SN) B on a label.

Circuits		Model No.	Dimensions (mm)								Q'ty / box
Power supply	Signal		A	B	C	D	E	F			
								t=1.2	t=1.6,2.0		
4	13	13R-RWZV-K2GG-Q4RL	9.0	40.3	32.5	36.5	36.7	37.2	37.5	264	

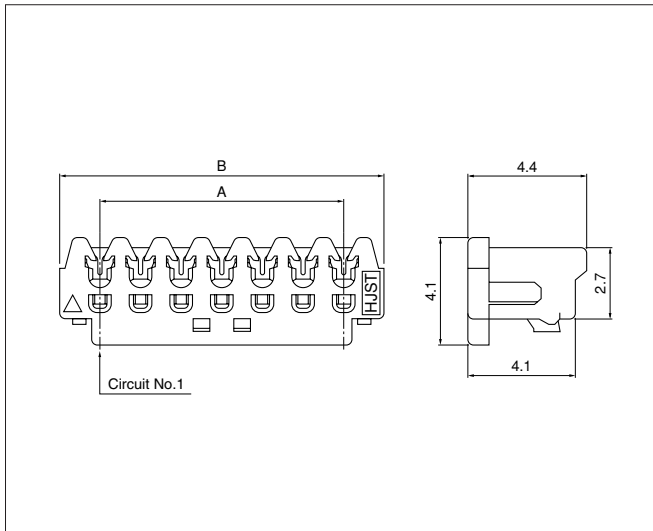
Material and Finish

Signal contact: Copper alloy, nickel-undercoated, selective gold-plated, tin-plated (reflow treatment)
Housing: PBT, UL94V-0, black

RoHS compliance This product displays (LF)(SN) on a label.

RWZ CONNECTOR

CZ connector socket



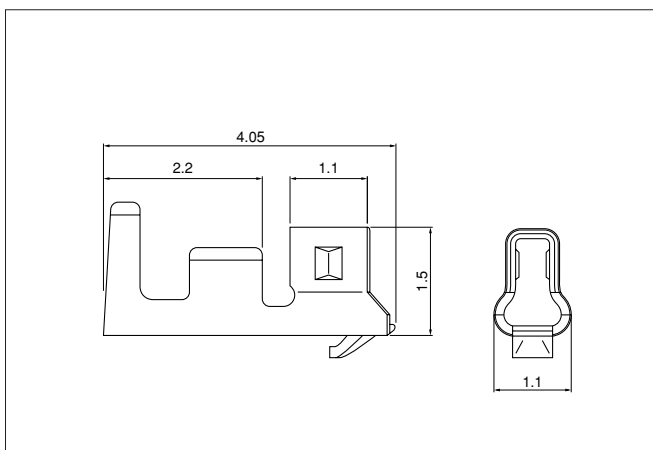
Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Gray	Yellow	A	B	
4	04CZ-6H	04CZ-6Y	4.5	7.5	2,000
5	05CZ-6H	05CZ-6Y	6.0	9.0	2,000
6	06CZ-6H	06CZ-6Y	7.5	10.5	2,000
7	07CZ-6H	07CZ-6Y	9.0	12.0	2,000
9	09CZ-6H	09CZ-6Y	12.0	15.0	1,000
10	10CZ-6H	10CZ-6Y	13.5	16.5	1,000
11	11CZ-6H	11CZ-6Y	15.0	18.0	1,000
12	12CZ-6H	12CZ-6Y	16.5	19.5	1,000
13	13CZ-6H	13CZ-6Y	18.0	21.0	1,000
15	15CZ-6H	15CZ-6Y	21.0	24.0	1,000
16	16CZ-6H	16CZ-6Y	22.5	25.5	1,000
17	17CZ-6H	17CZ-6Y	24.0	27.0	1,000
19	19CZ-6H	19CZ-6Y	27.0	30.0	1,000
20	20CZ-6H	20CZ-6Y	28.5	31.5	1,000

Material and Finish

Contact: Copper alloy, tin-plated (reflow treatment)
Housing: Glass-filled PA 66, UL94V-0

RoHS compliance

CZH connector contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SCZH-002T-P0.5	0.08~0.13	28~26	0.8~1.1	13,000

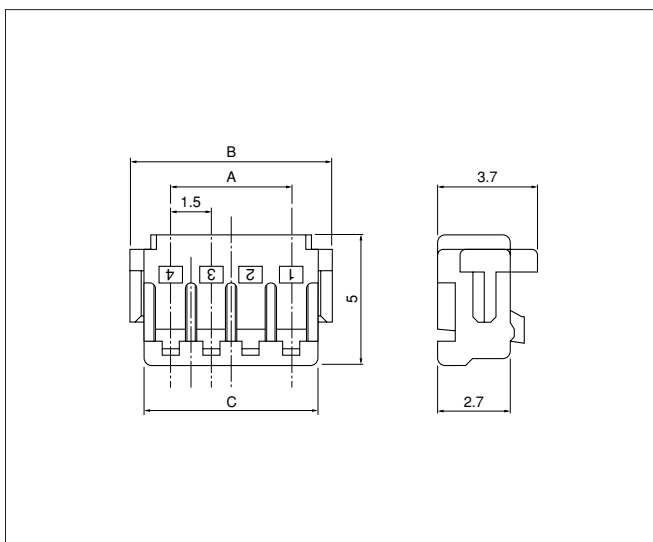
Material and Finish

Copper alloy, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SCZH-002T-P0.5	AP-K2N	MKS-L	MK/SCZH-002-05	APLMK SCZH002-05
		—	—	—

CZH connector housing

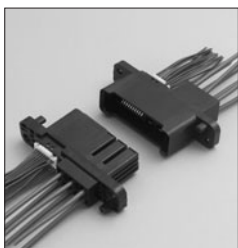


Circuits	Model No.	Dimensions (mm)			Q'ty / box
		A	B	C	
4	CZHR-04V-S	4.5	7.5	6.5	1,000
5	CZHR-05V-S	6.0	9.0	8.0	1,000
6	CZHR-06V-S	7.5	10.5	9.5	1,000
7	CZHR-07V-S	9.0	12.0	11.0	1,000
9	CZHR-09V-S	12.0	15.0	14.0	1,000
10	CZHR-10V-S	13.5	16.5	15.5	1,000
11	CZHR-11V-S	15.0	18.0	17.0	1,000
12	CZHR-12V-S	16.5	19.5	18.5	1,000
13	CZHR-13V-S	18.0	21.0	20.0	1,000
15	CZHR-15V-S	21.0	24.0	23.0	1,000
16	CZHR-16V-S	22.5	25.5	24.5	1,000
17	CZHR-17V-S	24.0	27.0	26.0	1,000
19	CZHR-19V-S	27.0	30.0	29.0	1,000
20	CZHR-20V-S	28.5	31.5	30.5	1,000

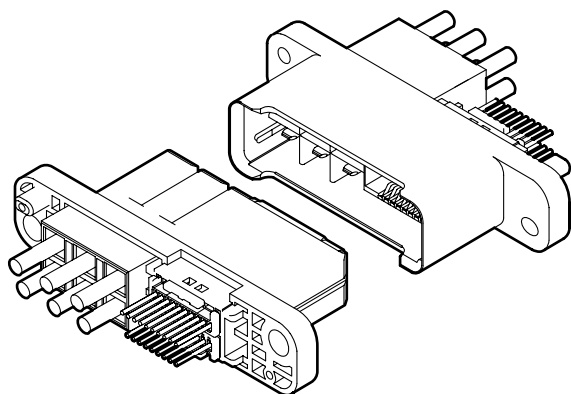
Material

PBT, UL94V-0, natural (white)

RoHS compliance



RWZ CONNECTOR L-Type



This connector is a hybrid type double-row drawer connector combined signal and power supply circuits connector to connect the units. RWZ connector with lever locking device is adopted as applicable socket to prevent incomplete mating.

- **Signal circuit 1.5mm pitch lever-locking type**
- **Hybrid type**
- **High durability**
- **Absorbed misalignment mechanism**

Specifications

- **Current rating:** Signal circuit/1.0A AC, DC (AWG#26)
Power supply circuit/15A AC, DC (AWG#14)
- **Voltage rating:** Signal circuit/50V AC, DC
Power supply circuit/250V AC, DC
- **Temperature range:** -25°C to +85°C
(including temperature rise in applying electrical current)
- **Contact resistance:**
Signal circuit Initial value/40m Ω max.
After environmental testing/60m Ω max.
Power supply circuit Initial value/10m Ω max.
After environmental testing/20m Ω max.
- **Insulation resistance:** 500M Ω min.
- **Withstanding voltage:** Signal circuit 500V AC/minute
Power supply circuit 1,500V AC/minute
- **Applicable wire:**
Signal circuit Applicable socket/ RCZ connector
Power supply circuit Conductor size/AWG#24 to #14
Insulation O.D. /1.4 to 3.6mm
- **Mounting method:** Screw
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Compliant with RoHS.

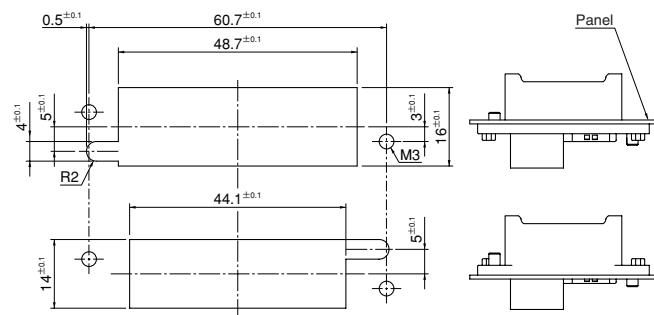
Standards

Recognized E60389

Certified LR20812

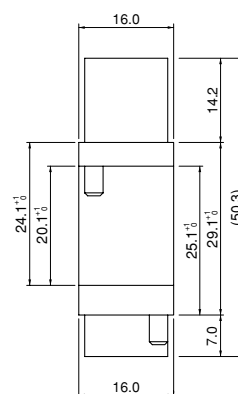
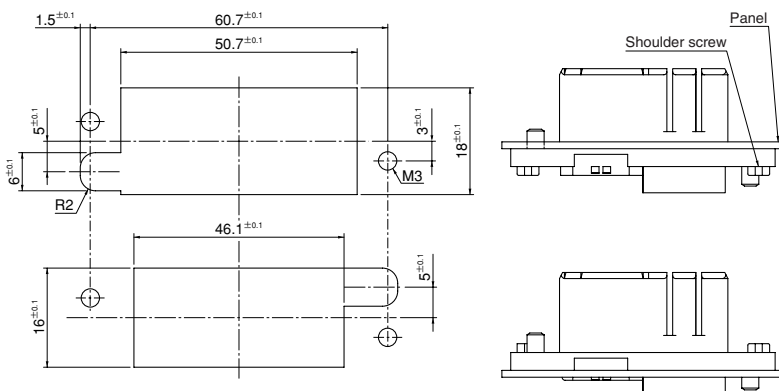
Plug

Panel thickness: 0.8 to 2.0mm



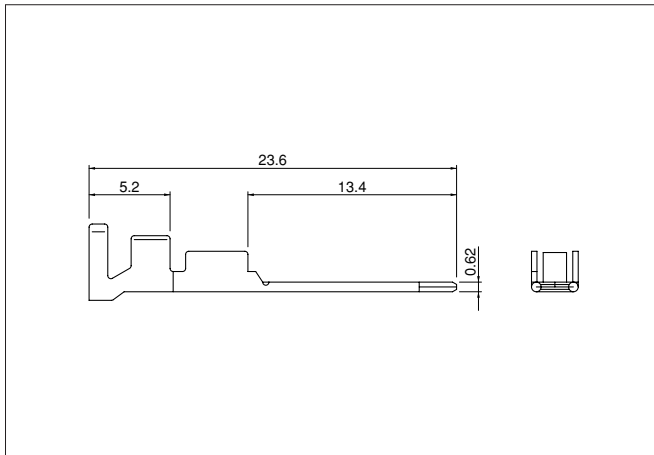
Receptacle

Panel thickness: 0.8 to 2.0mm



RWZ CONNECTOR L-Type

Plug contact for power supply circuit



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SRWM-01GG-S0.6	0.2 ~0.5	24~20	1.4 ~1.9	4,000
SRWM-21GG-S0.6	0.3 ~0.75	22~18	1.55~3.1	3,000
SRWM-61GG-S0.6	0.75~2.0	18~14	2.0 ~3.6	3,000

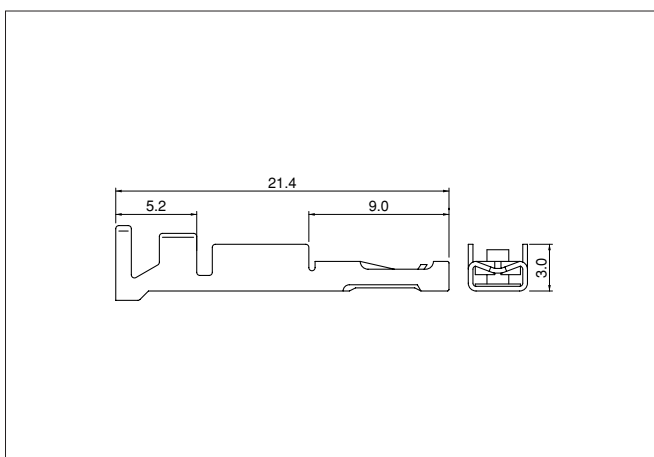
Material and Finish

Copper alloy, nickel-undercoated, Mating part; gold-plated
Crimping part; tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SRWM-01GG-S0.6	AP-K2N	MKS-L	MK/SRPF/M-01-06	APLMK SRPF/M01-06
		—	—	—
SRWM-21GG-S0.6		MKS-L	MK/SRPF/M-21-06	APLMK SRPF/M21-06
		—	—	—
SRWM-61GG-S0.6		MKS-L	MK/SRPF/M-61-06	APLMK SRPF/M61-06
		—	—	—

Receptacle contact for power supply circuit



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SRWF-01GG-M0.6	0.2 ~0.5	24~20	1.4 ~1.9	4,000
SRWF-21GG-M0.6	0.3 ~0.75	22~18	1.55~3.1	3,000
SRWF-61GG-M0.6	0.75~2.0	18~14	2.0 ~3.6	3,000

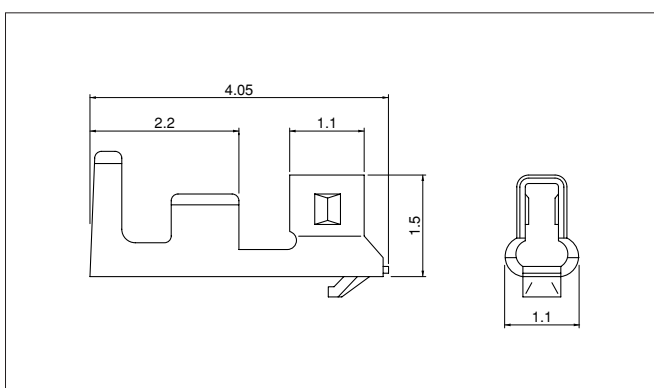
Material and Finish

Copper alloy, nickel-undercoated, Mating part; gold-plated
Crimping part; tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SRWF-01GG-M0.6	AP-K2N	MKS-L	MK/SRPF/M-01-06	APLMK SRPF/M01-06
		—	—	—
SRWF-21GG-M0.6		MKS-L	MK/SRPF/M-21-06	APLMK SRPF/M21-06
		—	—	—
SRWF-61GG-M0.6		MKS-L	MK/SRPF/M-61-06	APLMK SRPF/M61-06
		—	—	—

CZH connector contact (for RCZ connector)



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm ²	AWG #		
SCZH-002T-P0.5	0.08~0.19	28~26	0.8~1.1	13,000

Material and Finish

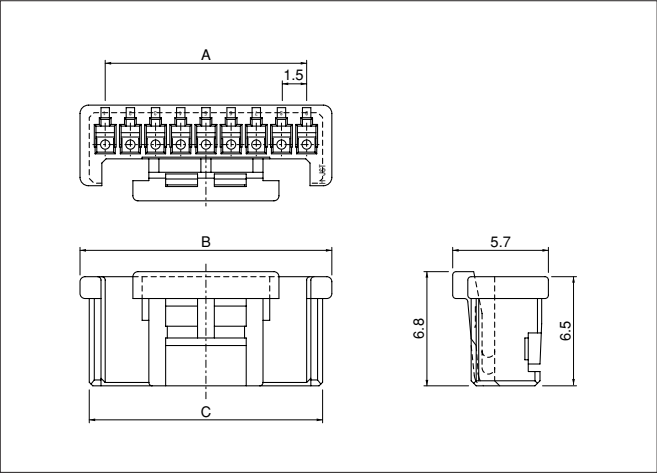
Copper alloy, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SCZH-002T-P0.5	AP-K2N	MKS-L	MK/SCZH-002-05	APLMK SCZH002-05
		—	—	—

RWZ CONNECTOR L-Type

RCZ connector socket housing



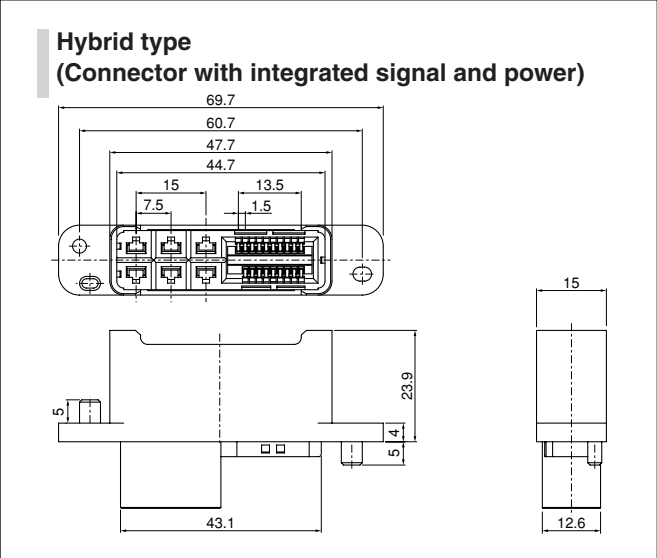
Circuits	Model No.	Dimensions (mm)			Q'ty / bag
		A	B	C	
9	RCZR-09V-PS	12.0	15.0	13.9	1,000
10	RCZR-10V-PS	13.5	16.5	15.4	1,000

Material

PA 66, UL94V-0

RoHS compliance This product displays (LF)(SN) on a label.

Plug



Hybrid type (Connector with integrated signal and power)

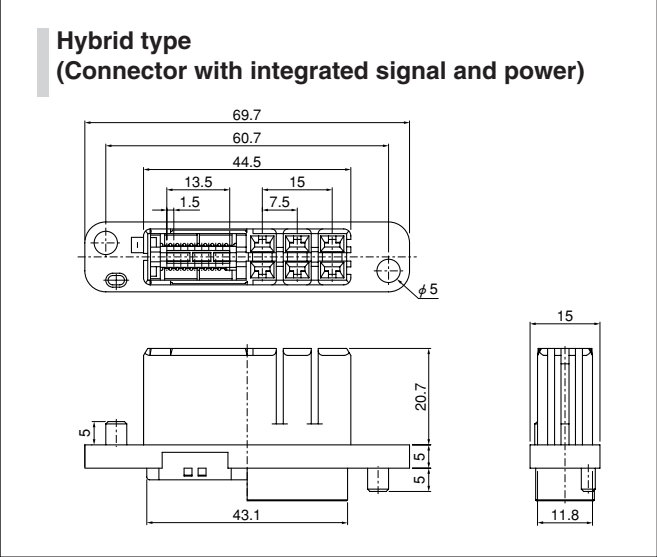
Circuits		Model No.	Q'ty / box
Power supply	Signal		
6	19	19LP-RWZV-K4GG-P6	168

Material and Finish

Signal contact: Copper alloy, nickel-undercoated, selective gold-plated tin-plated (reflow-treatment)
Housing: PBT, UL94V-0, black

RoHS compliance This product displays (LF)(SN) on a label.

Receptacle



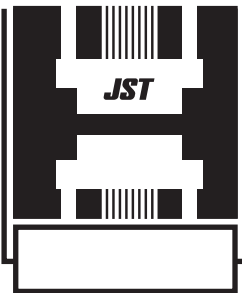
Hybrid type (Connector with integrated signal and power)

Circuits		Model No.	Q'ty / box
Power supply	Signal		
6	19	19LR-RWZV-K2GG-R6	168

Material and Finish

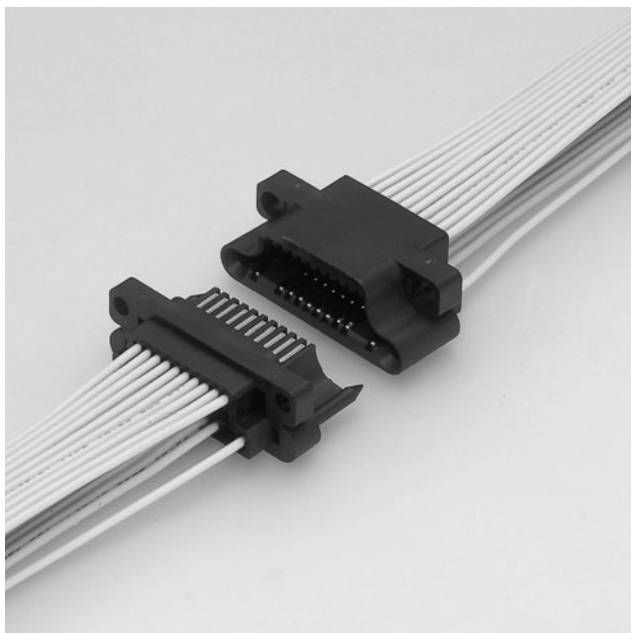
Signal contact: Copper alloy, nickel-undercoated, selective gold-plated tin-plated (reflow-treatment)
Housing: PBT, UL94V-0, black

RoHS compliance This product displays (LF)(SN) on a label.

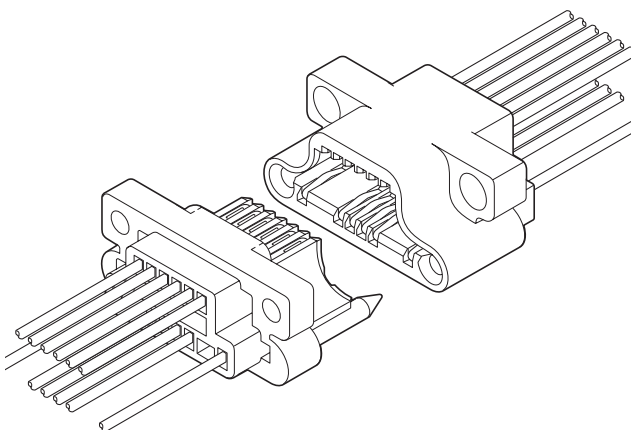


TSD CONNECTOR

Disconnectable Crimp style Wire-to-wire connectors



This hybrid type drawer connector shares a single design contact between signal and power lines.



Features

• **Single design contact**

The single contact can be used both for the power and for the signal connections.

• **Misalignment correction**

The floating function adopting stepped screws will absorb possible misalignment resulting from mounting.

• **Highly reliable contact performance**

The dimple featured contact ensures stable contact performance.

Specifications

- Current rating: 2A AC, DC (AWG #24)
- Voltage rating: Signal circuit 30V AC, DC
Power supply circuit 300V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/30m Ω max.
After environmental testing/50m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: Power-Signal 1,500V AC/minute
Signal-Signal 500V AC/minute
- Applicable wire: AWG #28 to #24
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

 Recognized E60389

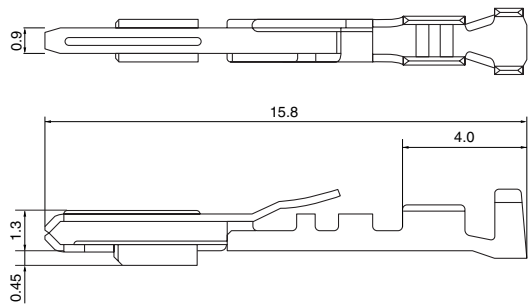
 Certified LR20812

 R50170333

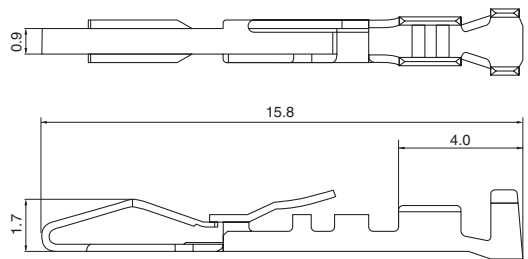
TSD CONNECTOR

Contact

Plug contact



Receptacle contact



Model No.		Applicable wire		Insulation O.D. (mm)	Q'ty / reel
Plug contact	Receptacle contact	mm ²	AWG#		
STSD-002GG-P0.6	STS-002GG-P0.6	0.08 to 0.22	28 to 24	0.9 to 1.5	10,000

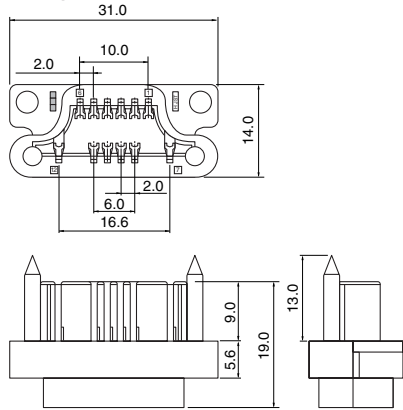
Material and Finish

Copper alloy, nickel-undercoated, Mating part; gold-plated
Crimping part; tin-plated (reflow treatment)

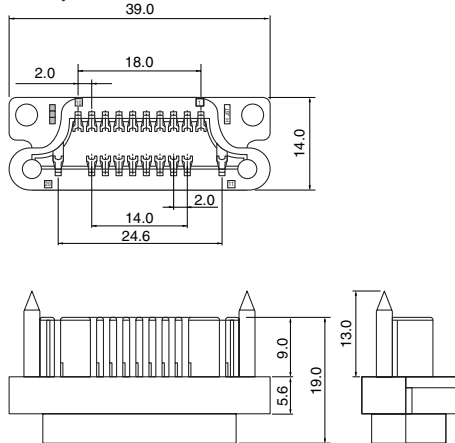
RoHS compliance This product displays (LF)(SN) on a label.

Plug housing

(12 circuits)



(20 circuits)



Circuits	Model No.	Q'ty / box
12	TSDP-12V-K	100
20	TSDP-20V-K	50

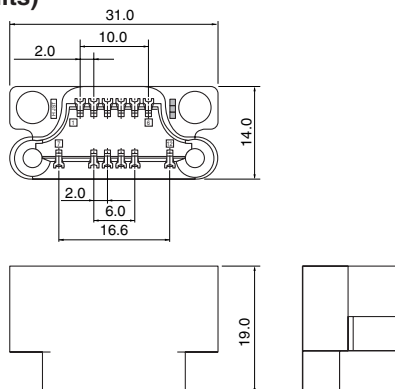
Material

Glass-filled PBT, UL94V-0

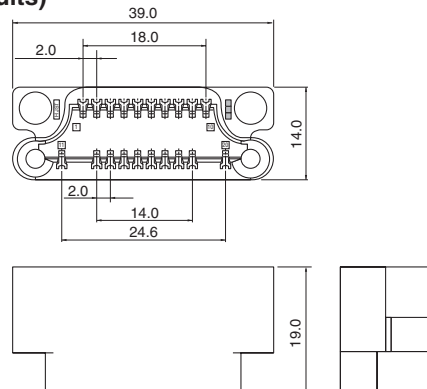
RoHS compliance

Receptacle housing

(12 circuits)



(20 circuits)

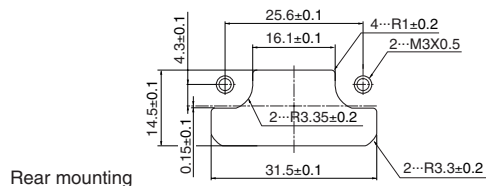
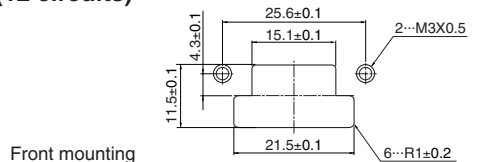


Circuits	Model No.	Q'ty / box
12	TSDR-12V-K	100
20	TSDR-20V-K	50
Material		
Glass-filled PBT, UL94V-0		

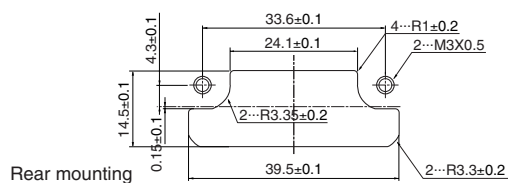
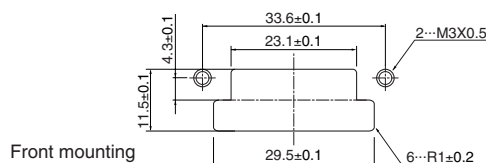
RoHS compliance

Panel layout

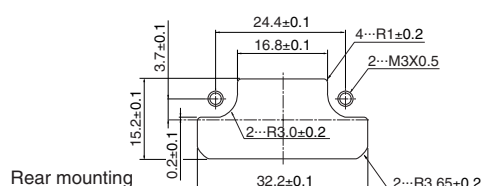
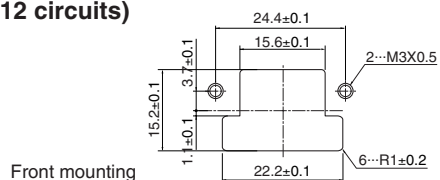
Plug
(12 circuits)



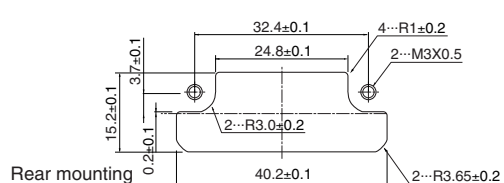
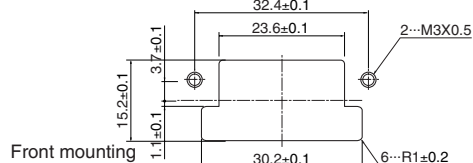
(20 circuits)



Receptacle
(12 circuits)



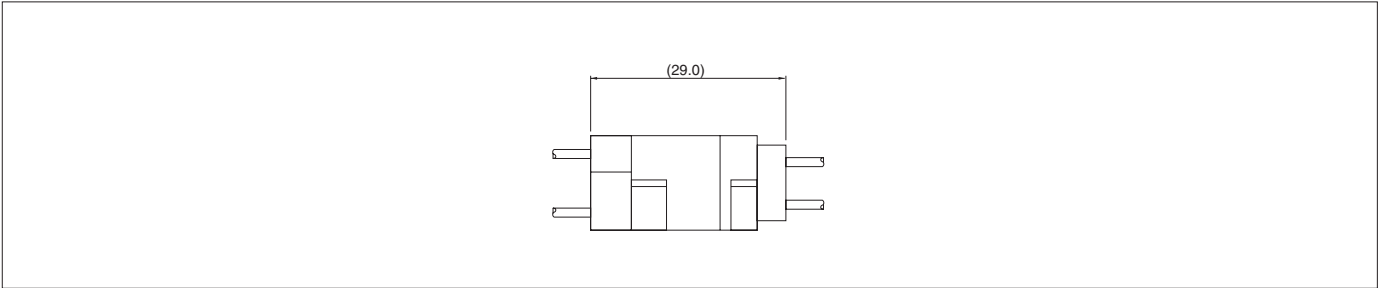
(20 circuits)



Note: 1. Punch holes in the panel according to the sketch and table shown above. Burrs must be removed.
2. The strength of the panel must be considered when punching two or more holes.
3. The connector must be inserted from the same side as the hole is punched.

TSD CONNECTOR

Assembly layout



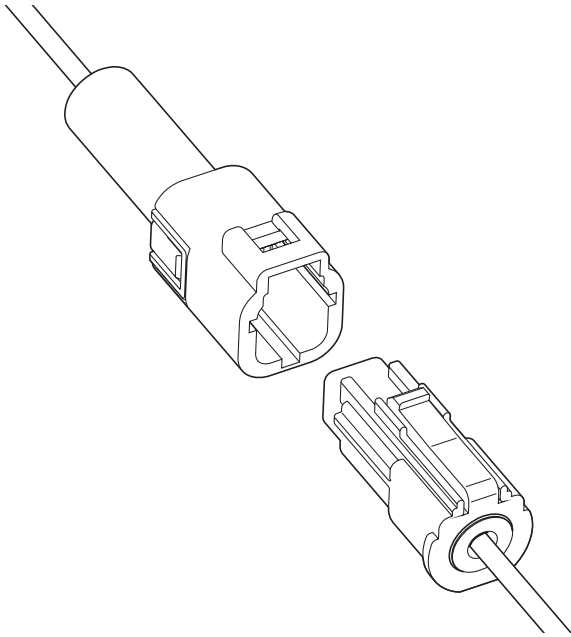
Crimping machine, Applicator

Contact	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies
STSD-002GG-P0.6 STS-002GG-P0.6	AP-K2N	MKS-L	MK/STS/D-002-06	APLMK STS/D002-06



WPK CONNECTOR

Disconnectable Crimp style Wire-to-wire connectors



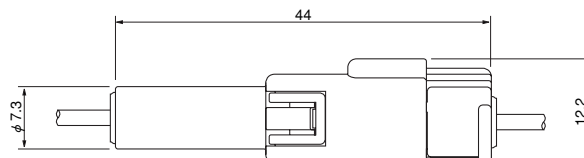
This connector is compact and excels in waterproof and durability. This wire-to-wire connector can be used for the place of which especially waterproof is required. Its waterproof grade is 7 ingress protection of JIS C 0920 (IEC 60529 IPX7).

- **Waterproof performance**
- **Contained seal ring**
- **Proven contact configuration**
- **Inner-housing lock**
- **Compact design**

Specifications

- Current rating: 7A AC, DC (0.85mm²)
- Voltage rating: 12V AC, DC
- Temperature range: -40°C to +105°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/5m Ω max.
After environmental testing/10m Ω max.
- Insulation resistance: 100M Ω min.
- Withstanding voltage: 1,000V AC/minute
- Applicable wire: 0.5 to 0.85mm²
Insulation O.D./1.6 to 1.9mm
- Waterproof grade: Grade 7 ingress protection of JIS C 0920 (IEC 60529 IPX7)
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

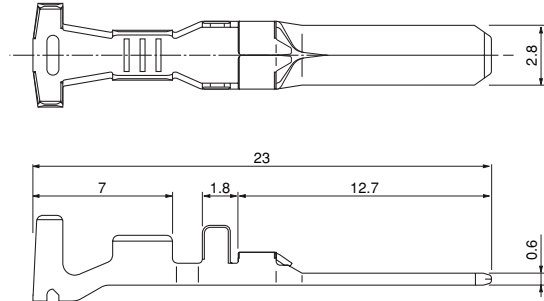
Assembly layout



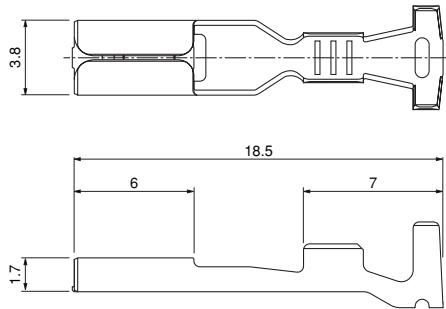
WPK CONNECTOR

Terminal

Male terminal



Female terminal



Model No.		Applicable wire (mm ²)	Insulation O.D. (mm)	Q'ty / reel
Male terminal	Female terminal			
SWPKP-21T-0.6	SWPKR-21T-0.6	0.5~0.85	1.6~1.9	3,000

Material and Finish

Copper alloy, tin-plated (reflow treatment)

RoHS compliance

Terminal	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SWPKP-21T-0.6	AP-K2N	MKS-L	MK/SWPKP/R-21-06	APLMK SWPKP/R21-06
SWPKR-21T-0.6		MKS-L	MK/SWPKP/R-21-06	APLMK SWPKP/R21-06

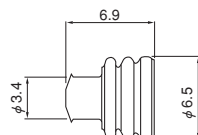
Housing

Material: PBT, black

Circuit	Voltage rating	Current rating	Male housing (for male terminal)		Female housing (for female terminal)	
1	12V	7A	01P-WPKH-KN		WPKR-01H-K	
				Q'ty / box 100		Q'ty / box 1,000

RoHS compliance

Wire end seal

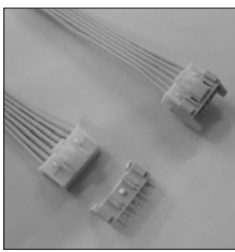


Model No.	Rubber inner diameter (mm)	Insulation O.D. (mm)	Q'ty / bag
WPKS-1.3N	1.3	1.6~1.9	1,500

Color	Material
Brown	NBR

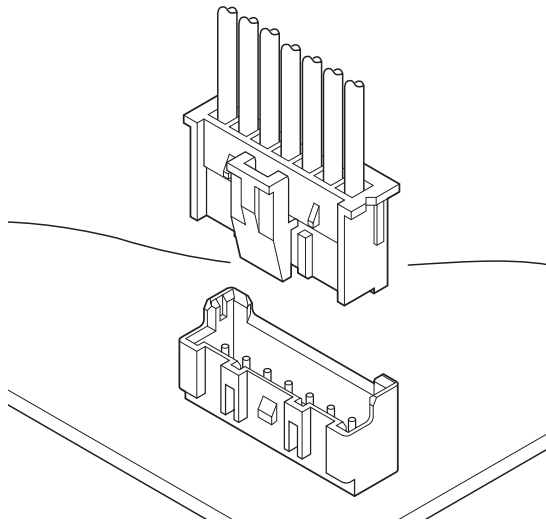
RoHS compliance

Note: Contact JST for applicable wire.



XA CONNECTOR (Compatible with glow wire test)

2.5mm pitch/Disconnectable Crimp style connectors



- **Secure locking device**
- **Solder crack preventive material**
- **Low insertion force**
- **Insertion guide mechanism**
- **Polarizing boss**
- **Compatible with glow wire test**

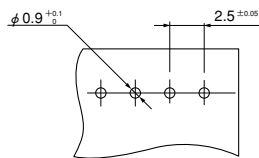
Specifications

- Current rating: 3A AC DC (AWG #22, #20)
- Voltage rating: 250V AC DC
- Temperature range: -25°C to +105°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 10m Ω max.
After environmental testing/ 20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,000V AC/minute
- Applicable wire: AWG #28 to #20
- Applicable PC board thickness: 1.6mm

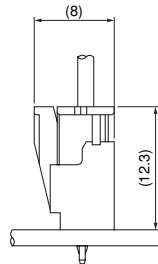
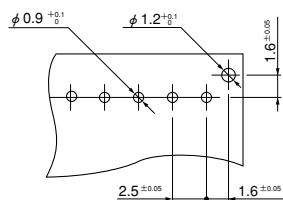
- * Contact JST for overseas standard.
- * Compliant with RoHS.
- * Contact JST for Halogen-free product, etc.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

〈Through-hole type〉

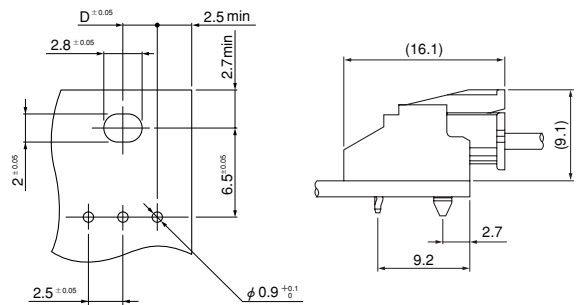
Top entry type without a boss



with a boss



Side entry type



Dimension D: Refer to the Model No. chart of header side entry type.

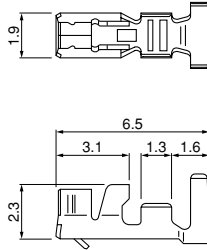
Note: 1. The above figure is the figure viewed from the connector mounting side.

2. Tolerances are non-cumulative: ±0.05mm for all centers.

3. Hole dimensions differ according to the type of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

XA CONNECTOR (Compatible with glow wire test)

Contact



Model No.	Applicable wire			Q'ty / reel
	mm ²	AWG#	Insulation O.D. (mm)	
SXA-001T-P0.6	0.08~0.33	28~22	0.8~1.9	8,000
SXA-01T-P0.6	0.22~0.5	24~20	1.5~1.9	8,000
SXA-001T-P0.6L	0.13~0.33	26~22	1.3~1.7	8,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Note :1. SXA-001T-P0.6L is low-insertion force type contact, for easier insertion/withdrawal, which would be less resistant to the vibration. The crimp height is different from the standard contact.
2. Contact JST for gold-plated products.

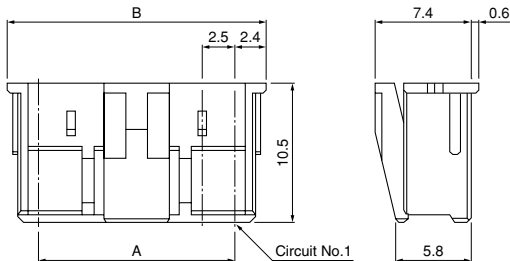
Contact	Crimping machine	Applicator			
		Crimp applicator	Dies	Crimp applicator with dies	
SXA-001T-P0.6	AP-K2N	MKS-L	MK/SXA/M-001-06	APLMK SXA/M001-06	
		*MKS-SC	SC/SXA/M-001-06	APLSC SXA/M001-06	
SXA-001T-P0.6L		MKS-L	MK/SXA-001-06L	APLMK SXA001-06L	
		*MKS-SC	SC/SXA-001-06L	APLSC SXA001-06L	

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXA-01T-P0.6	AP-K2N	MKS-L	MK/SXA/M-01-06	APLMK SXA/M01-06
		*MKS-SC	SC/SXA/M-01-06	APLSC SXA/M01-06

Note: *Strip-crimp applicator

Housing

Retainer mountable type



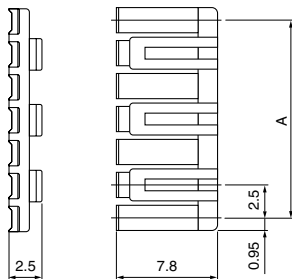
Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	XARP-02V-WGT4	2.5	7.3	1,000
3	XARP-03V-WGT4	5.0	9.8	1,000
4	XARP-04V-WGT4	7.5	12.3	1,000
5	XARP-05V-WGT4	10.0	14.8	1,000
6	XARP-06V-WGT4	12.5	17.3	1,000
7	XARP-07V-WGT4	15.0	19.8	1,000
8	XARP-08V-WGT4	17.5	22.3	1,000
9	XARP-09V-WGT4	20.0	24.8	1,000
10	XARP-10V-WGT4	22.5	27.3	1,000
11	XARP-11V-WGT4	25.0	29.8	1,000
12	XARP-12V-WGT4	27.5	32.3	1,000
13	XARP-13V-WGT4	30.0	34.8	1,000
14	XARP-14V-WGT4	32.5	37.3	1,000
15	XARP-15V-WGT4	35.0	39.8	1,000

Material

PA 66/6, UL94V-0, natural (white)

RoHS compliance

Retainer



Circuits	Model No.	A	Q'ty / bag
2	XMS-02V	2.5	1,000
3	XMS-03V	5.0	1,000
4	XMS-04V	7.5	1,000
5	XMS-05V	10.0	1,000
6	XMS-06V	12.5	1,000
7	XMS-07V	15.0	1,000
8	XMS-08V	17.5	1,000
9	XMS-09V	20.0	1,000
10	XMS-10V	22.5	1,000
11	XMS-11V	25.0	1,000
12	XMS-12V	27.5	1,000
13	XMS-13V	30.0	1,000
14	XMS-14V	32.5	1,000
15	XMS-15V	35.0	1,000

Material

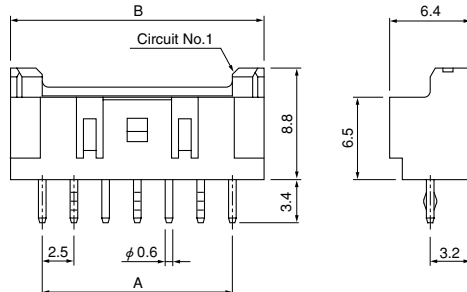
Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance

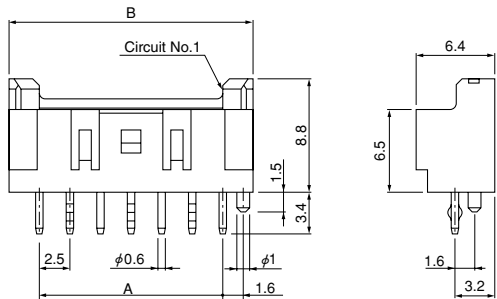
XA CONNECTOR (Compatible with glow wire test)

Through-hole type shrouded header

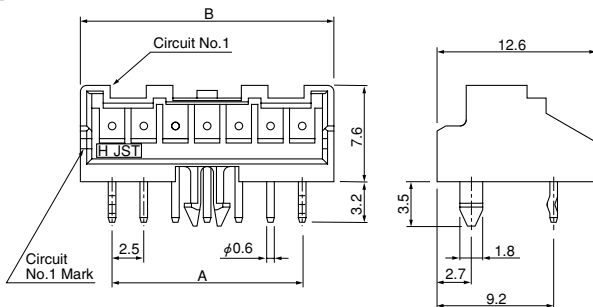
Top entry type without a boss



Top entry type with a boss



Side entry type with a hook



Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Top entry type		A	B	
	Without a boss	With a boss			
2	B02B-XASK-1	B02B-XASK-1-A	2.5	7.5	1,000
3	B03B-XASK-1	B03B-XASK-1-A	5.0	10.0	400
4	B04B-XASK-1	B04B-XASK-1-A	7.5	12.5	400
5	B05B-XASK-1	B05B-XASK-1-A	10.0	15.0	400
6	B06B-XASK-1	B06B-XASK-1-A	12.5	17.5	400
7	B07B-XASK-1	B07B-XASK-1-A	15.0	20.0	250
8	B08B-XASK-1	B08B-XASK-1-A	17.5	22.5	250
9	B09B-XASK-1	B09B-XASK-1-A	20.0	25.0	250
10	B10B-XASK-1	B10B-XASK-1-A	22.5	27.5	250
11	B11B-XASK-1	B11B-XASK-1-A	25.0	30.0	200
12	B12B-XASK-1	B12B-XASK-1-A	27.5	32.5	200
13	B13B-XASK-1	B13B-XASK-1-A	30.0	35.0	100
14	B14B-XASK-1	B14B-XASK-1-A	32.5	37.5	100
15	B15B-XASK-1	B15B-XASK-1-A	35.0	40.0	100

Material and Finish

Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PA 66, UL94V-0, natural (ivory)

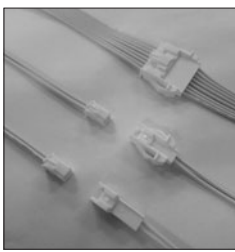
RoHS compliance This product displays (LF)(SN) on a label.
Note: Contact JST for gold-plated products.

Circuits	Model No.	Dimensions (mm)			Q'ty / box
	Side entry type with a hook	A	B	D	
2	S02B-XASS-1	2.5	7.5	1.25	250
3	S03B-XASK-1	5.0	10.0	2.50	250
4	S04B-XASK-1	7.5	12.5	3.75	200
5	S05B-XASK-1	10.0	15.0	5.00	200
6	S06B-XASK-1	12.5	17.5	6.25	200
7	S07B-XASK-1	15.0	20.0	7.50	200
8	S08B-XASK-1	17.5	22.5	8.75	100
9	S09B-XASK-1	20.0	25.0	10.00	100
10	S10B-XASK-1	22.5	27.5	11.25	100
11	S11B-XASK-1	25.0	30.0	12.50	100
12	S12B-XASK-1	27.5	32.5	13.75	100
13	S13B-XASK-1	30.0	35.0	15.00	100
14	S14B-XASK-1	32.5	37.5	16.25	100

Material and Finish

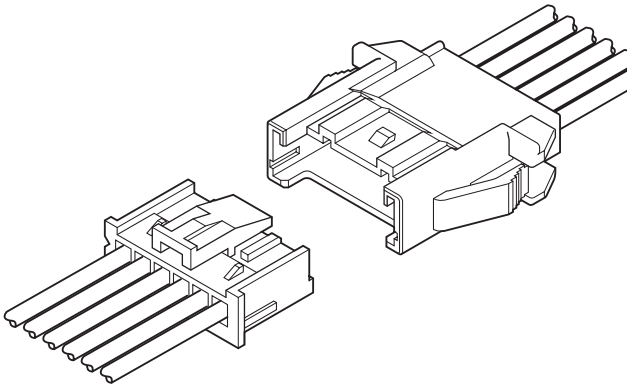
Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance This product displays (LF)(SN) on a label.
Note: 1. Dimension D...See PC board layout.
2. Contact JST for gold-plated products.



XA CONNECTOR (Compatible with glow wire test)

2.5mm pitch/Disconnectable Crimp style wire-to-wire connectors



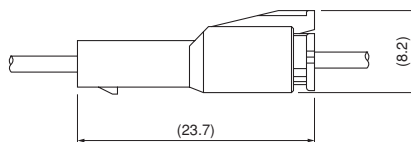
This is a 2.5mm pitch wire-to-wire connector compatible with glow wire test. Panel mount is applicable.

- ***Inner type contact lance***
- ***Mountable on a variety of panels***
- ***Secondary retainer***
- ***Secure lock construction***
- ***Compatible with glow wire test***

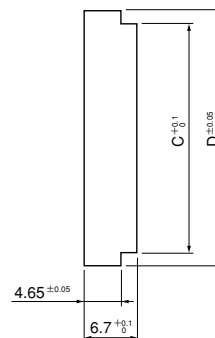
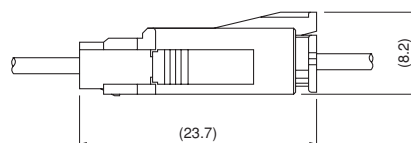
Specifications

- Current rating: 3A AC, DC max. (AWG #20)
- Voltage rating: 250V AC, DC max.
- Temperature range: -25°C to +105°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 10m Ω max.
After environmental testing/ 20m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #28 to #20
- * Contact JST for overseas standard.
- * Compliant with RoHS.
- * Contact JST for Halogen-free product, etc.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

Without panel locks



With panel locks

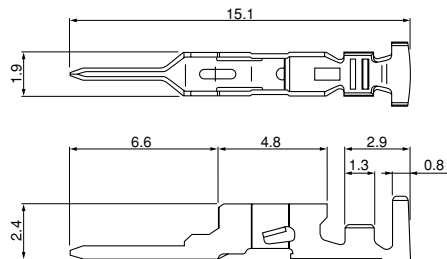


Note: C and D dimensions: Refer to receptacle housing.

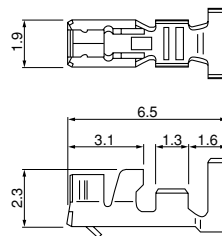
XA CONNECTOR (Compatible with glow wire test)

Contact

Pin contact



Socket contact



Model No.		Applicable wire		Insulation O.D.(mm)	Q'ty / reel	
Pin contact	Socket contact	mm ²	AWG #		Pin contact	Socket contact
SXAM-001T-P0.6	SXA-001T-P0.6	0.08~0.33	28~22	0.8~1.9	7,000	8,000
SXAM-01T-P0.6	SXA-01T-P0.6	0.22~0.5	24~20	1.5~1.9	7,000	8,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Note: Contact JST for gold-plated products.

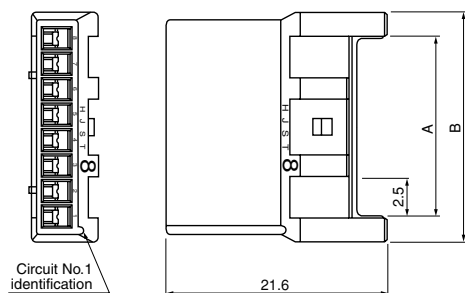
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXA-001T-P0.6	AP-K2N	MKS-L	MK/SXAM/XA-001-06	APLMK SXAM/XA001-06
		*MKS-SC	SC/SXAM/XA-001-06	APLSC SXAM/XA001-06
SXA-01T-P0.6	AP-K2N	MKS-L	MK/SXAM/XA-01-06	APLMK SXAM/XA01-06
		*MKS-SC	SC/SXAM/XA-01-06	APLSC SXAM/XA01-06

Note: *Strip-crimp applicator

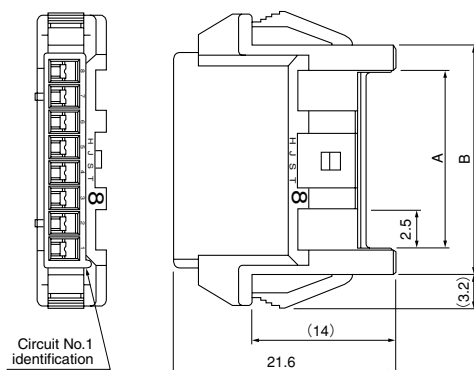
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXAM-001T-P0.6	AP-K2N	MKS-L	MK/SXAM/XA-001-06	APLMK SXAM/XA001-06
		*MKS-SC	SC/SXAM/XA-001-06	APLSC SXAM/XA001-06
SXAM-01T-P0.6	AP-K2N	MKS-L	MK/SXAM/XA-01-06	APLMK SXAM/XA01-06
		*MKS-SC	SC/SXAM/XA-01-06	APLSC SXAM/XA01-06

Receptacle housing (for pin contact)

Without panel locks



With panel locks



Circuits	Model No.		Dimensions (mm)				Q'ty / bag
	Without panel locks	With panel locks	A	B	C	D	
2	XARR-02VF-WGT4	XARR-02V-WGT4	2.5	7.5	7.9	11.2	1,000
3	XARR-03VF-WGT4	XARR-03V-WGT4	5.0	10.0	10.4	13.7	1,000
4	XARR-04VF-WGT4	XARR-04V-WGT4	7.5	12.5	12.9	16.2	1,000
5	XARR-05VF-WGT4	XARR-05V-WGT4	10.0	15.0	15.4	18.7	1,000
6	XARR-06VF-WGT4	XARR-06V-WGT4	12.5	17.5	17.9	21.2	500
7	—	XARR-07V-WGT4	15.0	20.0	20.4	23.7	500
8	XARR-08VF-WGT4	XARR-08V-WGT4	17.5	22.5	22.9	26.2	500
9	XARR-09VF-WGT4	XARR-09V-WGT4	20.0	25.0	25.4	28.7	500
10	XARR-10VF-WGT4	XARR-10V-WGT4	22.5	27.5	27.9	31.2	500
11	—	XARR-11V-WGT4	25.0	30.0	30.4	33.7	500
12	XARR-12VF-WGT4	XARR-12V-WGT4	27.5	32.5	32.9	36.2	500
13	—	XARR-13V-WGT4	30.0	35.0	35.4	38.7	500
14	—	XARR-14V-WGT4	32.5	37.5	37.9	41.2	500
15	—	XARR-15V-WGT4	35.0	40.0	40.4	43.7	500

Material

PA 66/6, UL94V-0, natural (white)

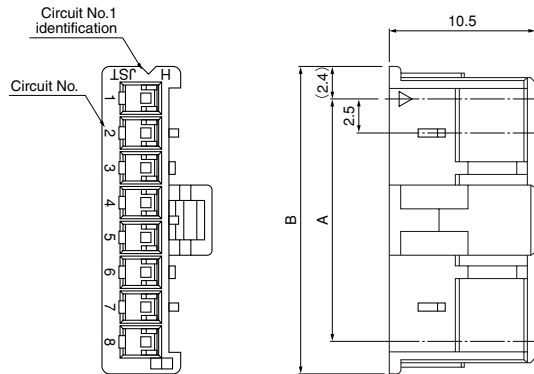
RoHS compliance

Note: C and D dimensions: Panel layout dimensions

XA CONNECTOR (Compatible with glow wire test)

Plug housing (for socket contact)

Retainer mountable type



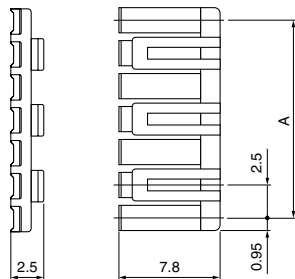
Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	XARP-02V-WGT4	2.5	7.3	1,000
3	XARP-03V-WGT4	5.0	9.8	1,000
4	XARP-04V-WGT4	7.5	12.3	1,000
5	XARP-05V-WGT4	10.0	14.8	1,000
6	XARP-06V-WGT4	12.5	17.3	1,000
7	XARP-07V-WGT4	15.0	19.8	1,000
8	XARP-08V-WGT4	17.5	22.3	1,000
9	XARP-09V-WGT4	20.0	24.8	1,000
10	XARP-10V-WGT4	22.5	27.3	1,000
11	XARP-11V-WGT4	25.0	29.8	1,000
12	XARP-12V-WGT4	27.5	32.3	1,000
13	XARP-13V-WGT4	30.0	34.8	1,000
14	XARP-14V-WGT4	32.5	37.3	1,000
15	XARP-15V-WGT4	35.0	39.8	1,000

Material

PA 66/6, UL94V-0, natural (white)

RoHS compliance

Retainer



Circuits	Model No.	A	Q'ty / bag
2	XMS-02V	2.5	1,000
3	XMS-03V	5.0	1,000
4	XMS-04V	7.5	1,000
5	XMS-05V	10.0	1,000
6	XMS-06V	12.5	1,000
7	XMS-07V	15.0	1,000
8	XMS-08V	17.5	1,000
9	XMS-09V	20.0	1,000
10	XMS-10V	22.5	1,000
11	XMS-11V	25.0	1,000
12	XMS-12V	27.5	1,000
13	XMS-13V	30.0	1,000
14	XMS-14V	32.5	1,000
15	XMS-15V	35.0	1,000

Material

Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance