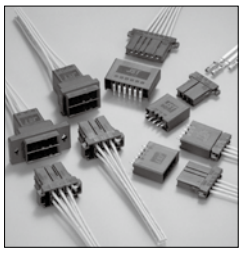
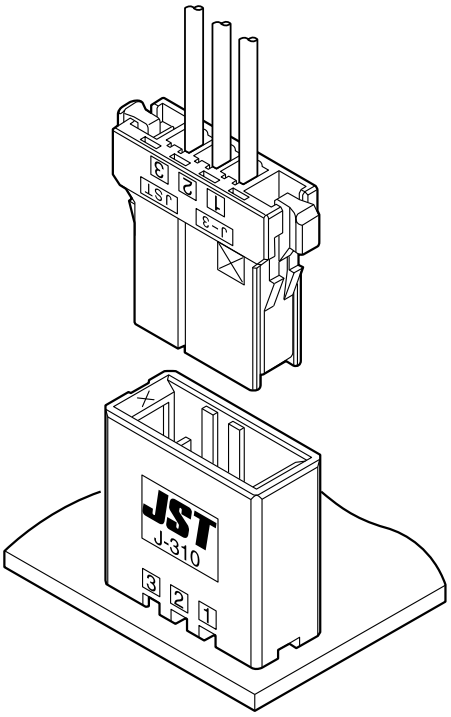


JFA CONNECTOR J300 SERIES

3.81, 5.08, 5.4 mm pitch/Crimp style and Mating 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**
- **Clear click feeling**

Specifications

・Current rating : AC/DC

Current unit: A

No. of 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
40	7.5	7.5	6.25	5.25	4.0	3.5	3.0	2.5

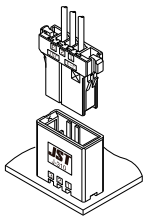
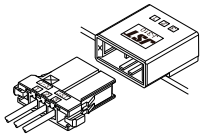
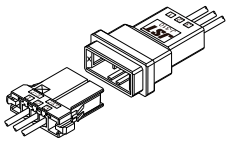
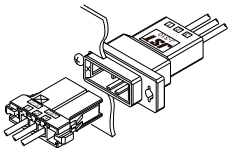
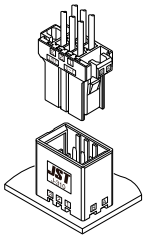
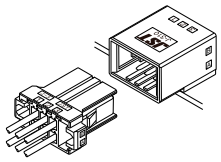
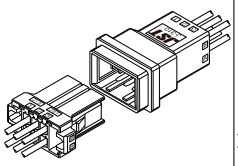
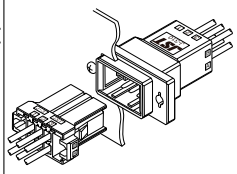
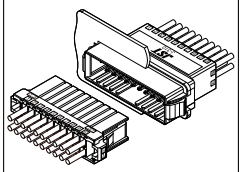
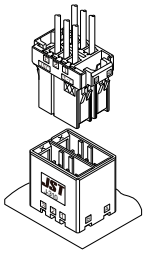
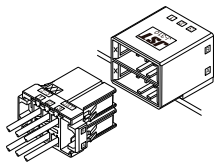
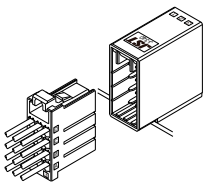
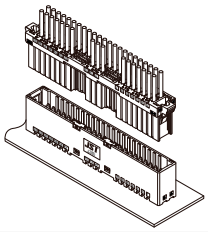
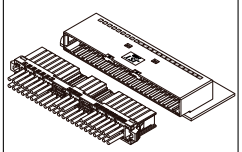
・Voltage rating: J310/J340/J380 series (3.81 mm pitch) 250 V AC/DC
J320/J350 series (5.08 mm pitch) 600 V AC/DC
・Temperature range: −55℃ to + 105℃
(including temperature rise in applying electrical current)
・Contact resistance: Initial value/ 5 mΩ max.
After environmental tests/ 10 mΩ max.
・Insulation resistance: 1,000 mΩ min.
・Withstanding voltage:
J310/J340/J380 series (3.81 mm pitch) 1,500 VAC/minute
J320/J350 series (5.08 mm pitch) 2,200 VAC/minute
・Applicable wire: AWG #28 to #14
・Applicable PC board thickness: 1.6 to 2.4 mm

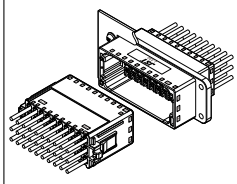
* Refer to the page of each product for the specifications of the J330 series and common type (J350D, J360T).
* In using the products, refer to "Handling Precautions for Terminals and Connectors" described on our website (Technical documents of Product information page).
* Dimensional unit: mm
* RoHS2 Compliance
* Contact JST for details.

Standards

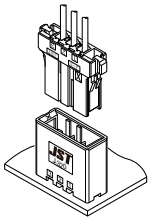
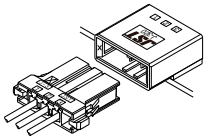
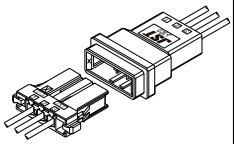
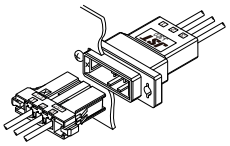
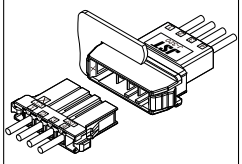
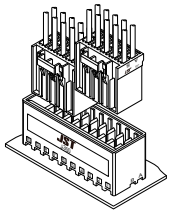
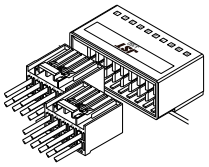
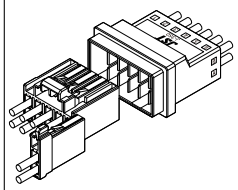
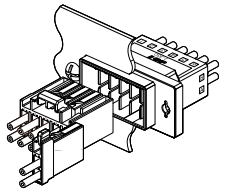
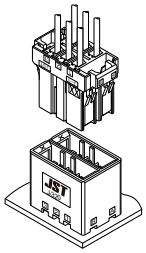
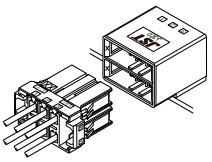
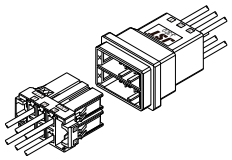
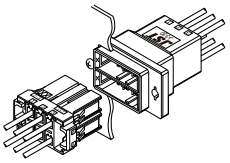
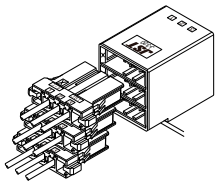
: Recognized E60389
: R50133261

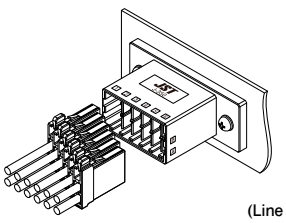
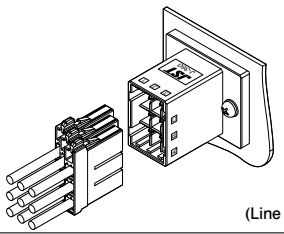
J300 series products line - up

Type	3.81 mm pitch , Voltage rating 250 V AC/DC				
	Wire-to-board		Wire-to-wire		
	Top entry type	Side entry type	Free hanging type	Panel mounting type	
				Screw type	Housing lock type
J310S Single-row type					
No. of circuits	3, 4, 5, 6, 8,10	3, 4, 5, 6, 8,10	3, 4, 5, 8,10	3, 4, 5, 8,10	
J310D Dual-row type [Line pitch 5.08 mm]					
No. of 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	6,12, 20
J310M Dual-row module type [Line pitch 7.62 mm]					
No. of circuits	6	6			
J340F Four-row type [Line pitch 5.08 mm]					
No. of circuits		12, 20			
J380 Dual-row type [Line pitch 5.08 mm] (Thin type)					
No. of circuits	40	20, 40			

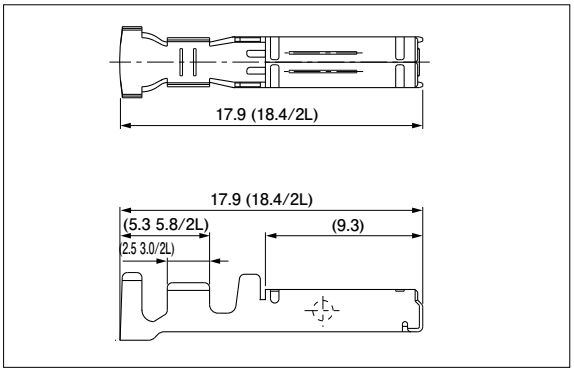
Type	5.4 mm pitch , Voltage rating 600 V AC/DC	
	Wire-to-wire	
	Panel mounting type	
	Screw type	Housing lock type
J330 [Line pitch 7.7 mm]		
No. of circuits	30, 40	

J300 series products line - up

Type	5.08 mm pitch , Voltage rating 600 V AC/DC				
	Wire-to-board		Wire-to-wire		
	Top entry type	Side entry type	Free hanging type	Panel mounting type	
				Screw type	Housing lock type
J320S Single-row type					
No. of circuits	2, 3, 4, 5, 6	2, 3, 4, 5, 6	1, 2, 3, 4	1, 2, 3, 4	4
J350D Dual-row type [Line pitch 5.08 mm]					
No. of circuits	12, 20	4,12, 20	12	12	
J320M Dual-row module type [Line pitch 7.62 mm]					
No. of circuits	6,10,12	6, 8,10,12	6,12	6,12, 20	
J320T Triple-row module type [Line pitch 7.62 mm]					
No. of circuits		9			

Common type	Dual-row common type (J350D)	Triple-row common type (J360T)
	 (Line pitch 5.08 mm)	 (Line pitch 6.5 mm)
No. of circuits	12	9,18, 24

Receptacle contact

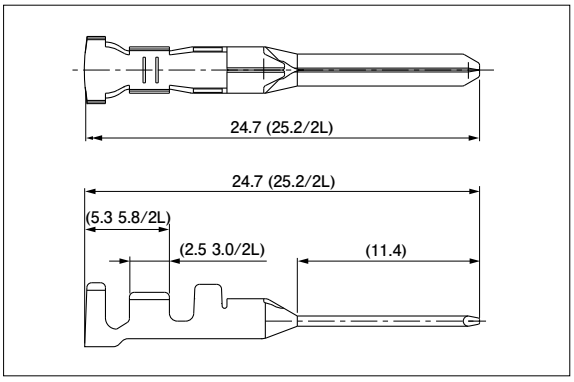


Model No.		Applicable wire			Insulation O.D. (mm)	Q'ty	
Strip contact	Loose piece	Size	mm²	AWG#		reel	box (Loose piece)
SF3F-002 (*) -P2.0	BF3F-002 (*) -P2.0	S	0.08 to 0.20	28 to 24	0.8 to 1.4	3,700	1,000
SF3F-01 (*) -P2.0	BF3F-01 (*) -P2.0	M	0.20 to 0.50	24 to 20	1.2 to 2.6	3,700	1,000
SF3F-41 (*) -P2.0	LF3F-41 (*) -P2.0	L	0.50 to 1.25	20 to 16	1.8 to 2.8	3,200	1,000
SF3F-71 (*) -P2.0	BF3F-71 (*) -P2.0	2L	1.25 to 2.0	16 to 14	2.4 to 3.4	3,200	1,000

Material and Surface finish, etc
Copper alloy (superior conductivity), nickel-undercoated, selective gold-plated tin-plated

RoHS2 compliance
Note: Finish (*): GF.....Nickel-undercoated, 0.38 μm selective gold-plated
GFA...Nickel-undercoated, 0.38 μm selective gold-plated (Type A)
GI.....Nickel-undercoated, 0.76 μm selective gold-plated
GIA....Nickel-undercoated, 0.76 μm selective gold-plated (Type A)
T.....Tin-plated

Tab contact



Model No.		Applicable wire			Insulation O.D. (mm)	Q'ty	
Strip contact	Loose piece	Size	mm²	AWG#		reel	box (Loose piece)
SF3M-002 (*) -M2.0N	BF3M-002 (*) -M2.0N	S	0.08 to 0.20	28 to 24	0.8 to 1.4	3,500	1,000
SF3M-01 (*) -M2.0N	BF3M-01 (*) -M2.0N	M	0.20 to 0.50	24 to 20	1.2 to 2.6	3,500	1,000
SF3M-41 (*) -M2.0N	LF3M-41 (*) -M2.0N	L	0.50 to 1.25	20 to 16	1.8 to 2.8	3,300	1,000
SF3M-71 (*) -M2.0N	BF3M-71 (*) -M2.0N	2L	1.25 to 2.0	16 to 14	2.4 to 3.4	3,200	1,000

Material and Surface finish, etc.
Copper alloy (superior conductivity), nickel-undercoated, selective gold-plated tin-plated

RoHS2 compliance
Note: 1. Finish (*):GF...Nickel-undercoated, 0.38 μm selective gold-plated
GI....Nickel-undercoated, 0.76 μm selective gold-plated
T.....Tin-plated

Crimping machine, Applicator

Strip contact Model No.	Crimping machine	Applicator			Hand tools
		Crimp applicator	Dies	Crimp applicator with dies	
SF3F-002 (*) -P2.0	AP-K2N	MKS-L	MK/SF3F/M-002-20	APLMK SF3F/M002-20	YRK-8821
SF3M-002 (*) -M2.0N					
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
GFA...Nickel-undercoated, 0.38 μm selective gold-plated (Type A)
GI .....Nickel-undercoated, 0.76 μm selective gold-plated
GIA....Nickel-undercoated, 0.76 μm selective gold-plated (Type A)
T.....Tin-plated

・ Extraction tool for J300 series: EJ-JFAJ3

Loose piece	Hand tools
BF3F-002 (*) -P2.0	YRF-882
BF3M-002 (*) -M2.0N	
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
GFA...Nickel-undercoated, 0.38 μm selective gold-plated (Type A)
GI .....Nickel-undercoated, 0.76 μm selective gold-plated
GIA ....Nickel-undercoated, 0.76 μm selective gold-plated (Type A)
T .....Tin-plated

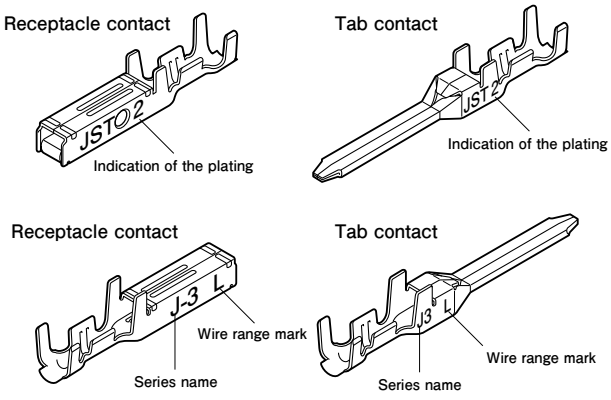
・ Special extraction tool for J300 series: For receptacle only ...EJ-JFAJ3R, For tab only ...EJ-JFAJ3T
・ Refer to the page of "Crimping tools " for details of YRK series hand crimping tools that uses a strip contact.

Recognition mark

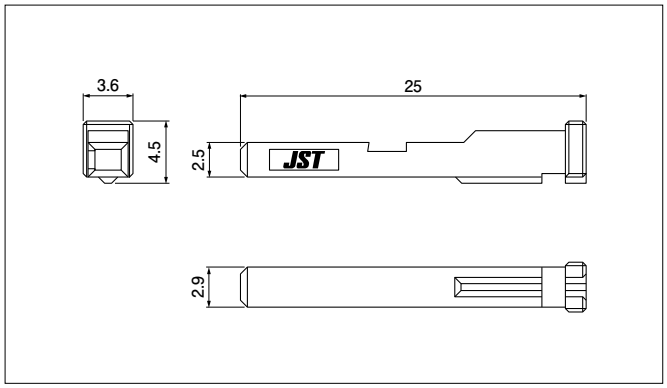
• Plating of the contact
Each contact has a marking on its side so that the type or thickness of the plating is recognized.
2 ... gold-plated 0.38 μm thickness
2 ... gold-plated 0.38 μm thickness (Type A)
3 ... gold-plated 0.76 μm thickness
3 ... gold-plated 0.76 μm thickness (Type A)
5 ... tin-plated

• 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.

J-3 S.....AWG #28 to #24
M....AWG #24 to #20
L.....AWG #20 to #16
2L...AWG #16 to #14



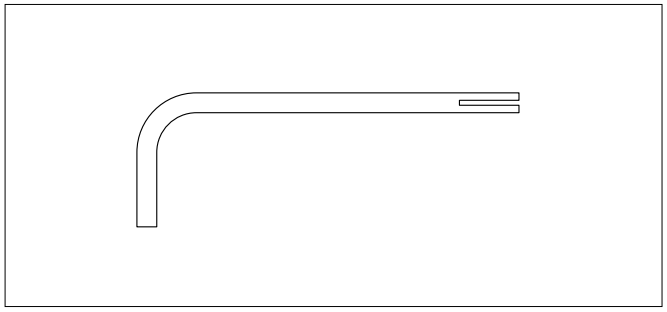
Keying plug



Model No.	Material and Surface finish, etc.
J3KP-VS	Glass-filled PBT, UL94V-0, white

RoHS2 compliance

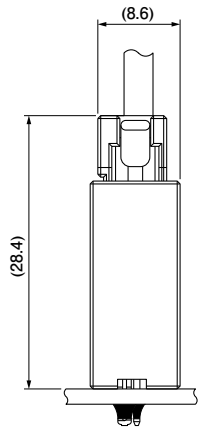
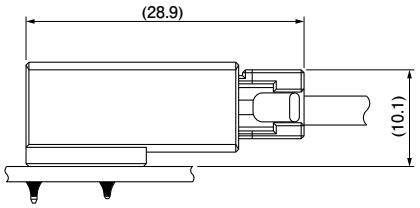
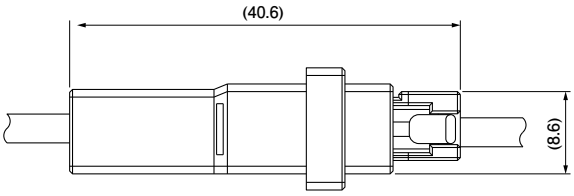
Tab contact (Cutting jig)



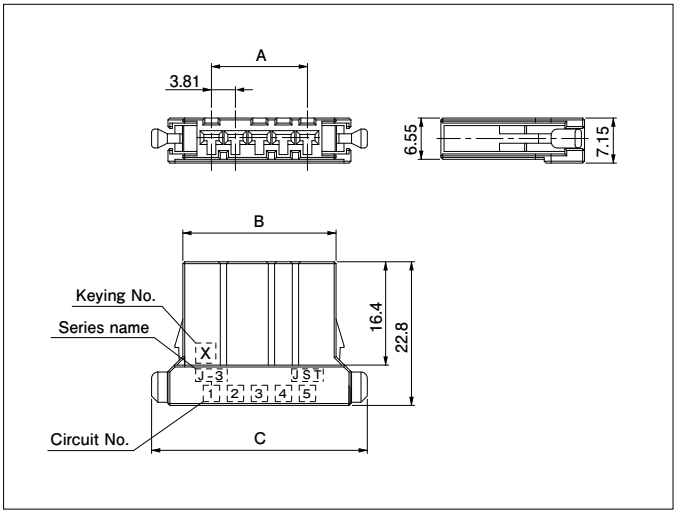
Model No.
CT-JFAJ3A

Note: Unlisted in UL/TÜV

Assembly layout

Wire-to-board	< Top entry type >  	< Side entry type > 
Wire-to-wire	< Free hanging type / Panel mounting type >  	

Receptacle housing

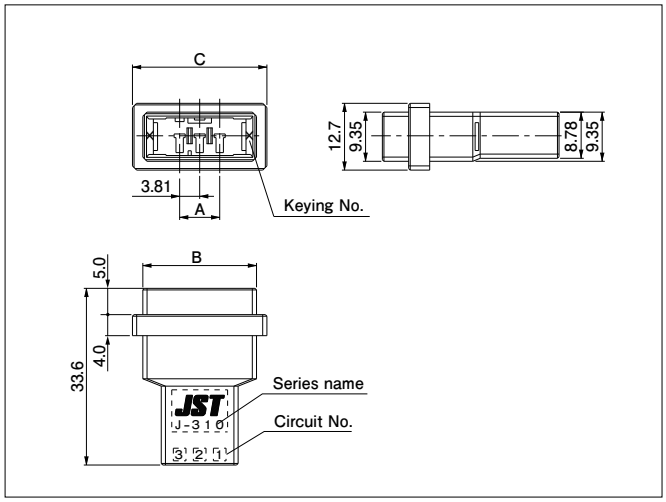


No. of circuits	Keying	Model No.	Dimensions (mm)			Q'ty /bag
			A	B	C	
3	X	**F31FSS-03V-KX**	7.62	16.70	26.62	200
	Y	**F31FSS-03V-KY**	7.62	16.70	26.62	200
4	X	**F31FSS-04V-KX**	11.43	20.51	30.43	200
	Y	**F31FSS-04V-KY**	11.43	20.51	30.43	200
5	X	**F31FSS-05V-KX**	15.24	24.32	34.24	200
	Y	**F31FSS-05V-KY**	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 and Surface finish, etc.
Glass-filled PBT, UL94V-0, black

RoHS2 compliance

Tab housing (Free hanging type)

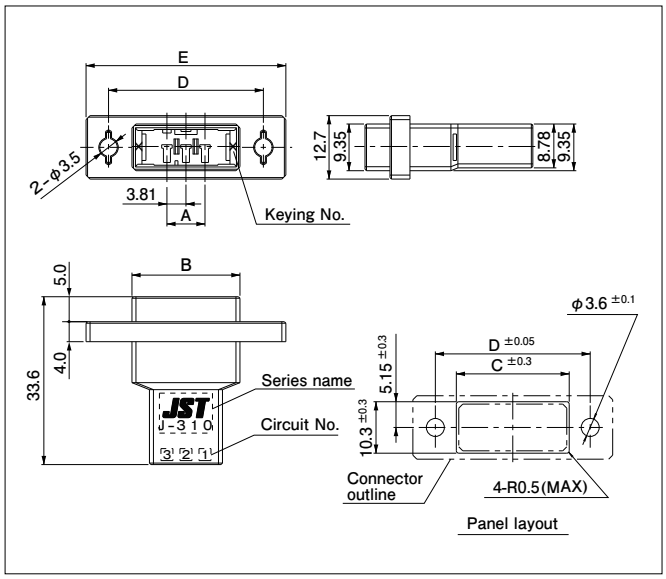


No. of circuits	Keying	Model No.	Dimensions (mm)			Q'ty /bag
			A	B	C	
3	X	F31MSF-03V-KX	7.62	21.62	25.57	200
	Y	F31MSF-03V-KY	7.62	21.62	25.57	200
4	X	F31MSF-04V-KX	11.43	25.43	29.38	200
	Y	F31MSF-04V-KY	11.43	25.43	29.38	200
5	X	F31MSF-05V-KX	15.24	29.24	33.19	200
	Y	F31MSF-05V-KY	15.24	29.24	33.19	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 and Surface finish, etc.
Glass-filled PBT, UL94V-0, black

RoHS2 compliance

Tab housing (Panel mounting type)



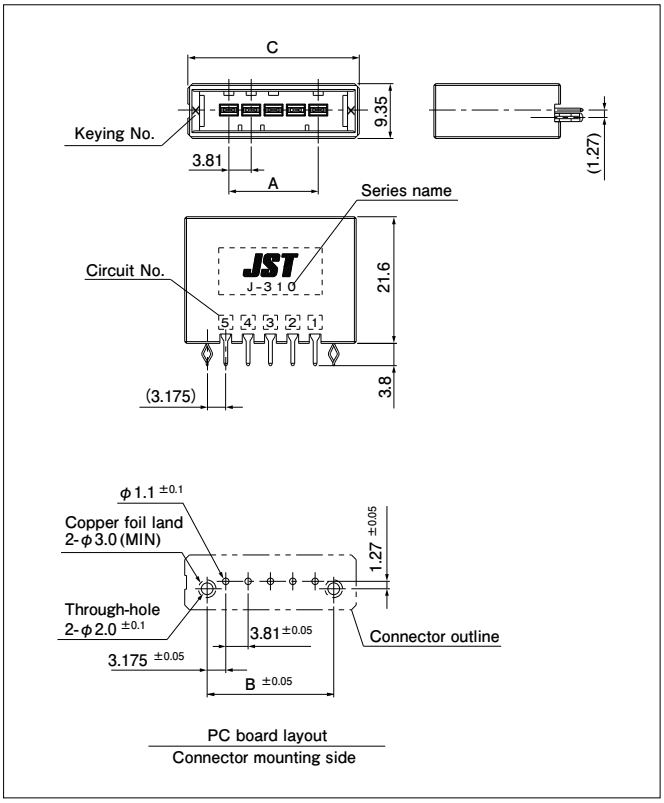
No. of circuits	Keying	Model No.	Dimensions (mm)					Q'ty /bag
			A	B	C	D	E	
3	X	F31MSP-03V-KX	7.62	21.62	22.60	31.00	40.00	200
	Y	F31MSP-03V-KY	7.62	21.62	22.60	31.00	40.00	200
4	X	F31MSP-04V-KX	11.43	25.43	26.40	34.50	43.50	200
	Y	F31MSP-04V-KY	11.43	25.43	26.40	34.50	43.50	200
5	X	F31MSP-05V-KX	15.24	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 and Surface finish, etc.
Glass-filled PBT, UL94V-0, black

RoHS2 compliance

Note: 1. Punch holes in the panel. 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.

Header (Top entry type)



No. of 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

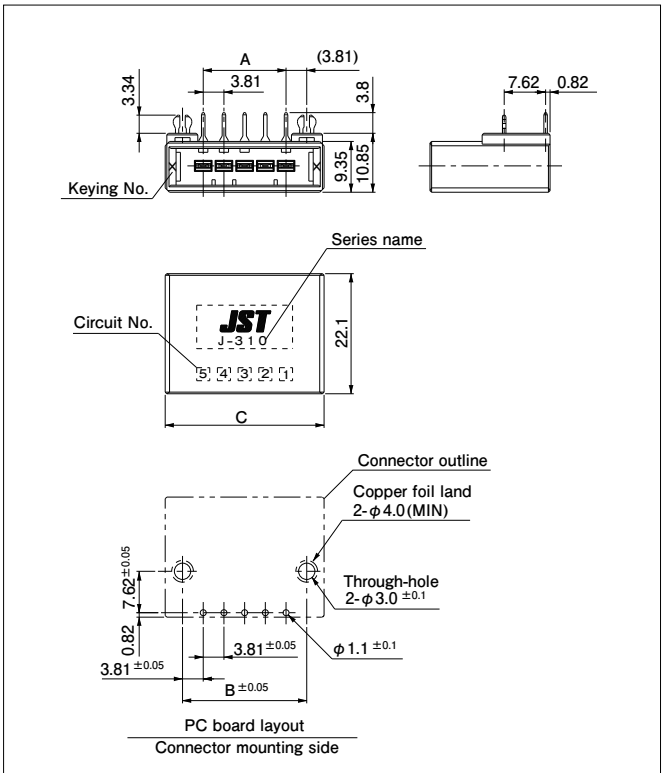
Material and Surface finish, etc.

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcement: Copper alloy, nickel-undercoated, selective gold-plated

RoHS2 compliance This product displays (LF)(AU) on a label.

Note: 1. Contact JST about the headers supplied in magazine stick.
2. Contact JST about 0.76 μm gold-plated product and tin-plated product.

Header (Side entry type)



No. of 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

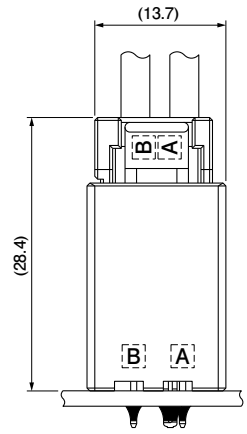
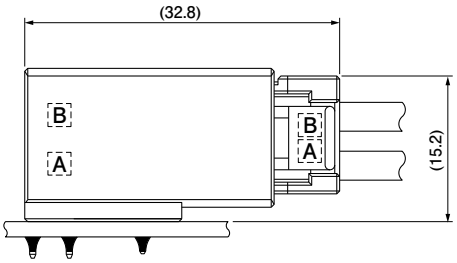
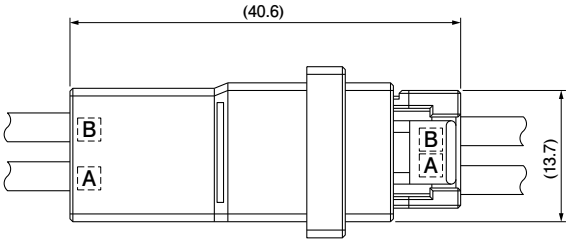
Material and Surface finish, etc.

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcement: Copper alloy, nickel-undercoated, selective gold-plated

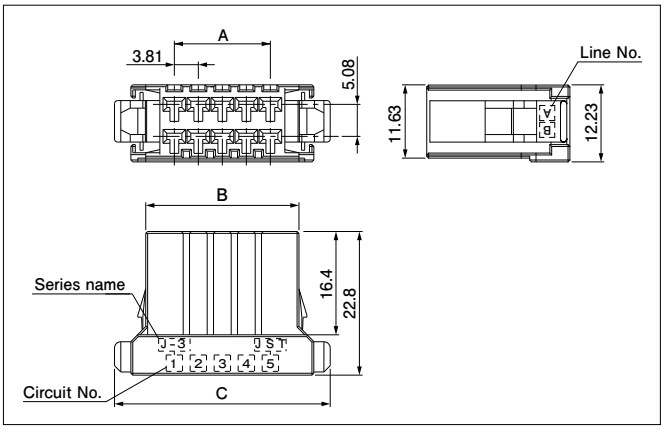
RoHS2 compliance This product displays (LF)(AU) on a label.

Note: 1. Contact JST about the headers supplied in magazine stick.
2. Contact JST about 0.76 μm gold-plated product and tin-plated product.

Assembly layout

Wire-to-board	〈 Top entry type 〉 	〈 Side entry type 〉 
Wire-to-wire	〈 Free hanging type / Panel mounting type (Screw type, Housing lock type) 〉 	

Receptacle housing

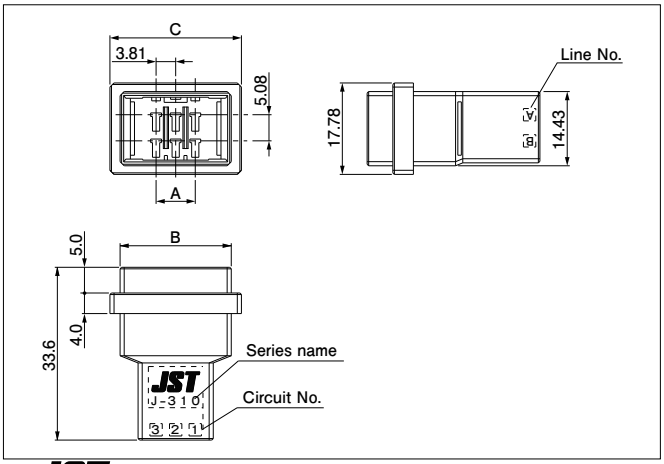


No. of circuits	Keying	Model No.	Dimensions (mm)			Q'ty/bag
			A	B	C	
6	—	F31FDS-06V-K	7.62	16.70	26.62	200
8	—	F31FDS-08V-K	11.43	20.51	30.43	100
10	—	F31FDS-10V-K	15.24	24.32	34.24	100
12	—	F31FDS-12V-K	19.05	28.13	38.05	100
16	—	F31FDS-16V-K	26.67	35.75	45.67	100
20	—	F31FDS-20V-K	34.29	43.37	53.29	100

Material and Surface finish, etc.
Glass-filled PBT, UL94V-0, black

RoHS2 compliance

Tab housing (Free hanging type)

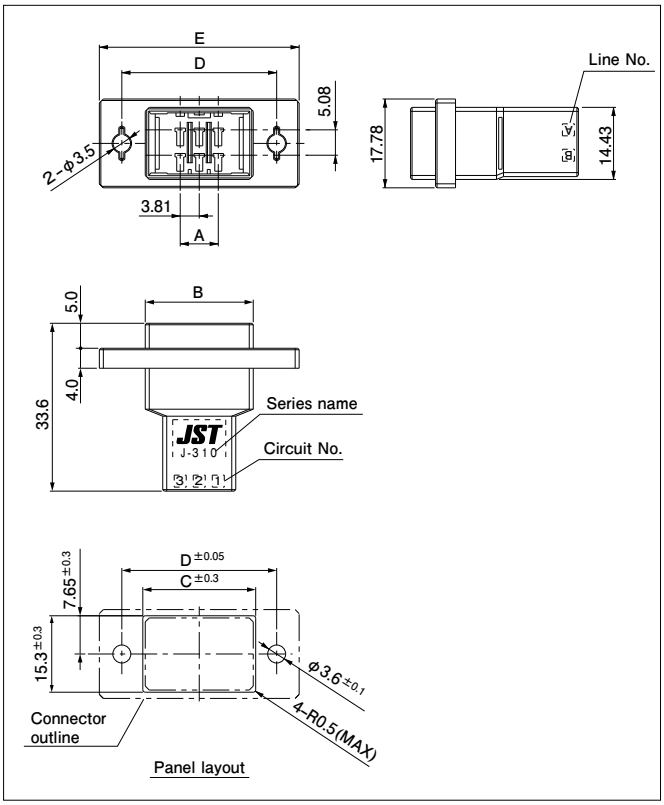


No. of circuits	Keying	Model No.	Dimensions (mm)			Q'ty/bag
			A	B	C	
6	—	F31MDF-06V-K	7.62	21.62	25.57	200
8	—	F31MDF-08V-K	11.43	25.43	29.38	100
10	—	F31MDF-10V-K	15.24	29.24	33.19	100
12	—	F31MDF-12V-K	19.05	33.05	37.00	100
16	—	F31MDF-16V-K	26.67	40.67	44.62	100
20	—	F31MDF-20V-K	34.29	48.29	52.24	100

Material and Surface finish, etc.
Glass-filled PBT, UL94V-0, black

RoHS2 compliance

Tab housing (Panel mounting type)



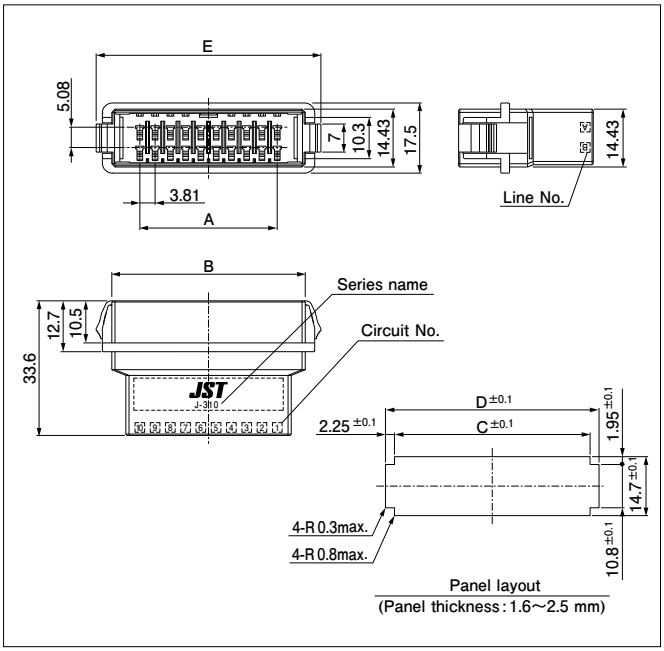
No. of circuits	Keying	Model No.	Dimensions (mm)					Q'ty /bag
			A	B	C	D	E	
6	—	F31MDP-06V-K	7.62	21.62	22.60	31.00	40.00	200
8	—	F31MDP-08V-K	11.43	25.43	26.40	34.50	43.50	100
10	—	F31MDP-10V-K	15.24	29.24	30.20	38.00	47.00	100
12	—	F31MDP-12V-K	19.05	33.05	34.00	42.00	51.00	100
16	—	F31MDP-16V-K	26.67	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 and Surface finish, etc.
Glass-filled PBT, UL94V-0, black

RoHS2 compliance

Note: 1. Punch holes in the panel. 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.

Tab housing (Panel mounting Housing lock type)



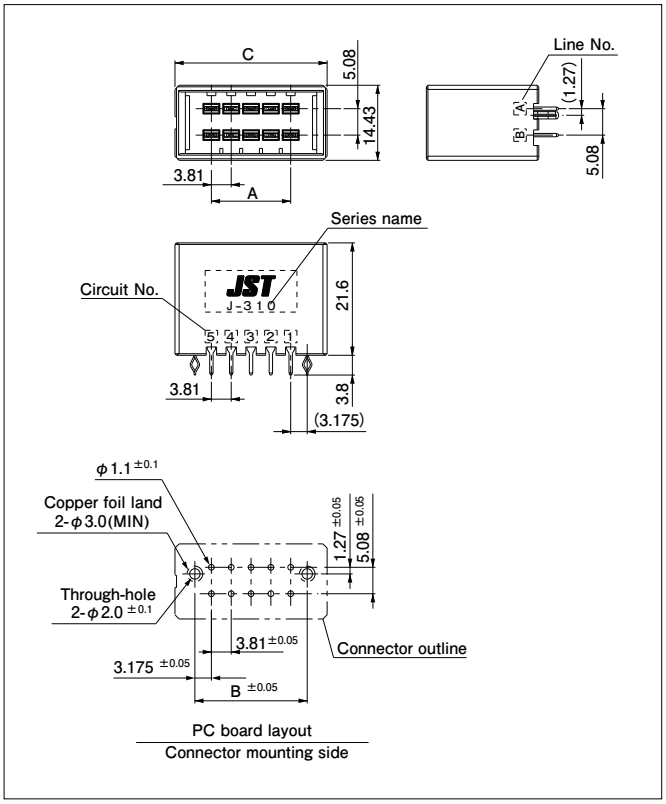
No. of circuits	Keying	Model No.	Dimensions (mm)					Q'ty /bag
			A	B	C	D	E	
6	—	F31MDPL-06V-K	7.62	21.62	22.15	26.65	26.33	100
12	—	F31MDPL-12V-K	19.05	33.05	33.55	38.05	37.76	100
20	—	F31MDPL-20V-K	34.29	48.29	48.80	53.30	53.00	80

Material and Surface finish, etc.
Glass-filled PBT, UL94V-0, black

RoHS2 compliance

Note: 1. Punch holes in the panel. 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.
4. Unlisted in UL/TÜV.

Header (Top entry type)



No. of 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

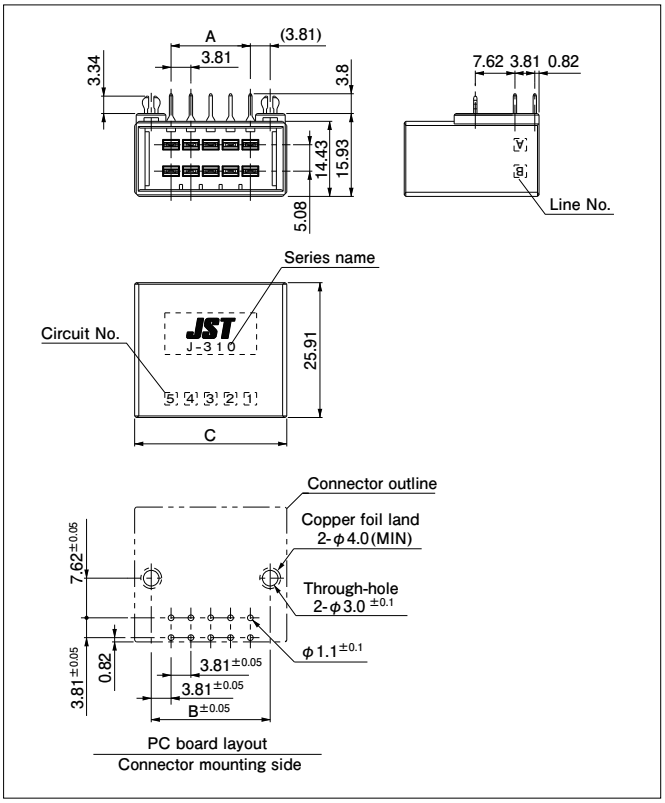
Material and Surface finish, etc.

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcement: Copper alloy, nickel-undercoated, selective gold-plated

RoHS2 compliance This product displays (LF) (AU) on a label.

Note: 1. Contact JST about the headers supplied in magazine stick.
2. Contact JST about 0.76 μm gold-plated product and tin-plated product.

Header (Side entry type)



No. of 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

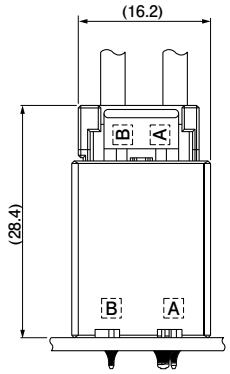
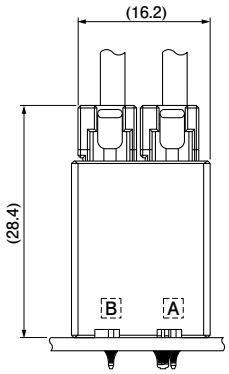
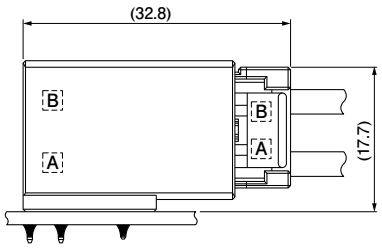
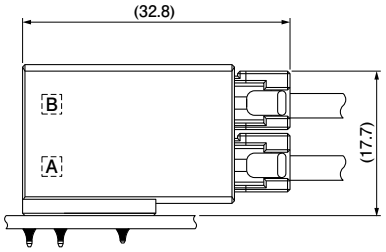
Material and Surface finish, etc.

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcement: Copper alloy, nickel-undercoated, selective gold-plated

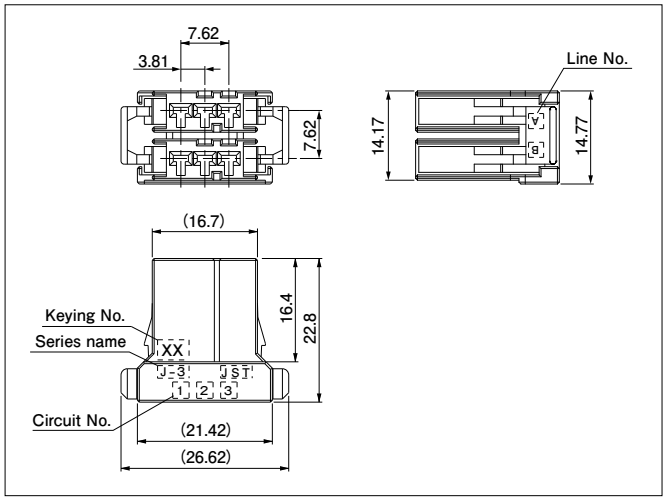
RoHS2 compliance This product displays (LF) (AU) on a label.

Note: 1. Contact JST about the headers supplied in magazine stick.
2. Contact JST about 0.76 μm gold-plated product and tin-plated product.

Assembly layout

		When mating with J310M receptacle	When mating with J310S receptacle modular
Wire-to-board	Top entry type		
	Side entry type		

Receptacle housing

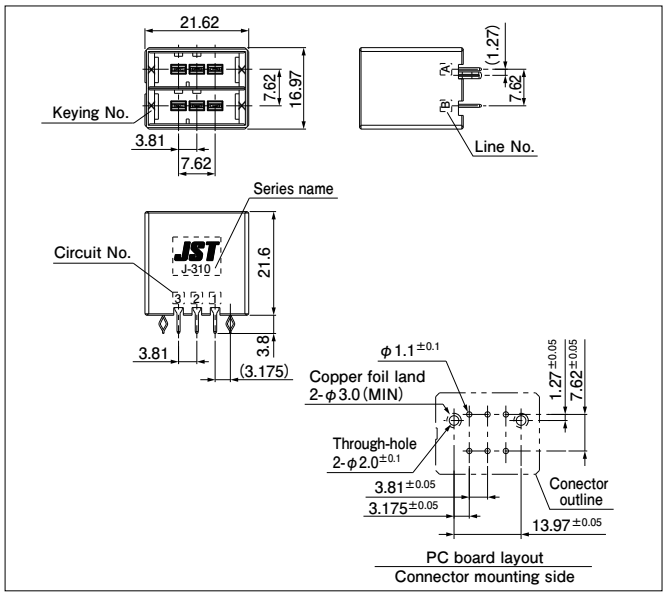


No. of circuits	Keying	Model No.	Q'ty/bag
6	XX	**F31FMS-06V-KXX**	100
	YY	**F31FMS-06V-KYY**	100
	XY	**F31FMS-06V-KXY**	100

Material and Surface finish, etc.
Glass-filled PBT, UL94V-0, black

RoHS2 compliance

Header (Top entry type)



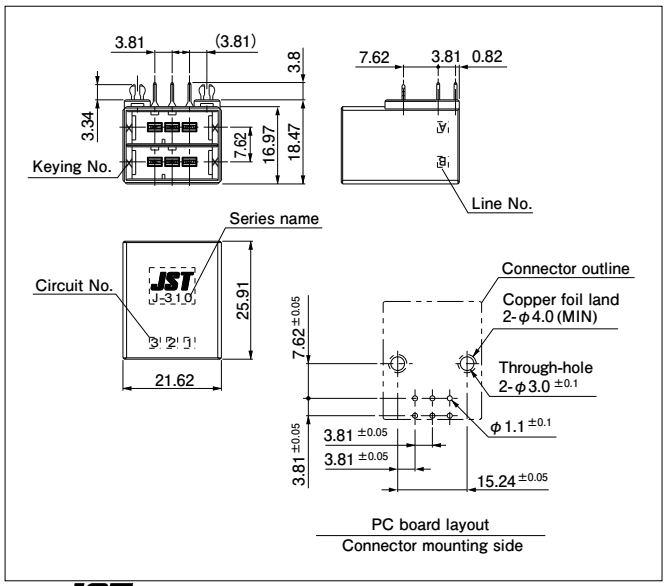
No. of circuits	Keying	Model No.	Q'ty/box
6	XX	**B06B-F31MK-GGXXR**	132
	YY	**B06B-F31MK-GGYYR**	132
	XY	**B06B-F31MK-GGXYR**	132

Material and Surface finish, etc.
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated Housing: Glass-filled PBT, UL94V-0, black Reinforcement: Copper alloy, nickel-undercoated, selective gold-plated

RoHS2 compliance This product displays (LF) (AU) on a label.

Note: 1. Contact JST about the headers supplied in magazine stick.
2. Contact JST about 0.76 μm gold-plated product and tin-plated product.

Header (Side entry type)



No. of circuits	Keying	Model No.	Q'ty/box
6	XX	S06B-F31MK-GGXXR	88
	YY	S06B-F31MK-GGYYR	88
	XY	S06B-F31MK-GGXYR	88

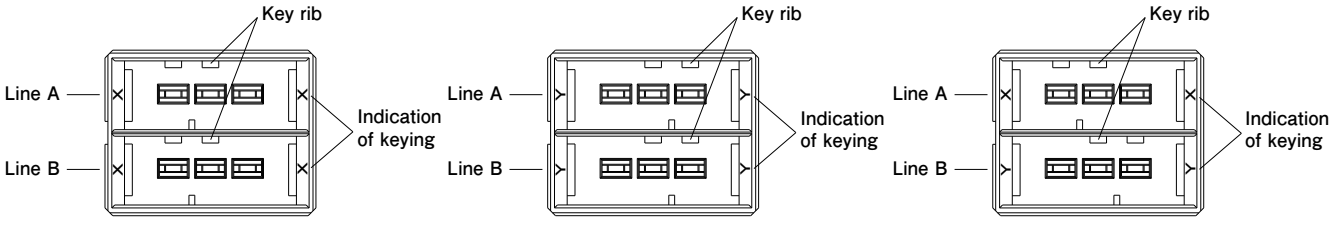
Material and Finish
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated Housing: Glass-filled PBT, UL94V-0, black Reinforcement: Copper alloy, nickel-undercoated, selective gold-plated

RoHS2 compliance This product displays (LF) (AU) on a label.

Note: 1. Contact JST about the headers supplied in magazine stick.
2. Contact JST about 0.76 μm gold-plated product and tin-plated product.

Keying

J310M series have mis-insertion preventive keying.
Available in 3 types — XX-Keying, YY-Keying and XY-Keying.
(Headers viewed from the mating side are shown below.)



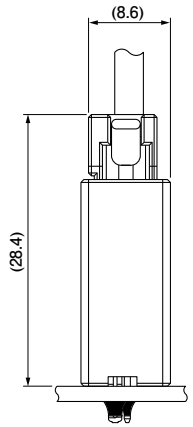
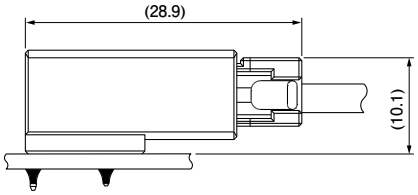
XX-Keying　　YY-Keying　　XY-Keying

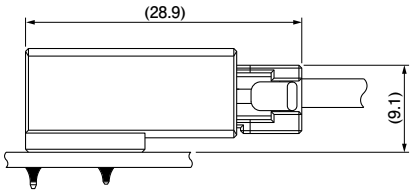
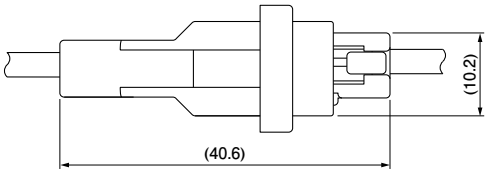
List of combinations

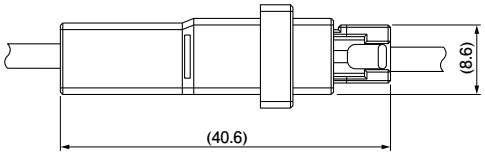
With the combination of the J310M headers and the J310M/J310S (3 circuits) receptacle housings, the following modular combinations are possible.

Receptacle housing		Header			
		Top entry type		Side entry type	
Single-row 3 circuits (J310S)	X-Keying F31FSS-03V-KX	Single-row 3 circuits (J310S)	X-Keying B03B-F31SK-GGXR	Single-row 3 circuits (J310S)	X-Keying S03B-F31SK-GGXR
	Y-Keying F31FSS-03V-KY		Y-Keying B03B-F31SK-GGYR		Y-Keying S03B-F31SK-GGYR
Dual-row 6 circuits (J310M)	XX-Keying F31FMS-06V-KXX	Dual-row 6 circuits (J310M)	XX-Keying B06B-F31MK-GGXXR	Double-row 6 circuits (J310M)	XX-Keying S06B-F31MK-GGXXR
	YY-Keying F31FMS-06V-KYY		YY-Keying B06B-F31MK-GGYYR		YY-Keying S06B-F31MK-GGYYR
	XY-Keying F31FMS-06V-KXY		XY-Keying B06B-F31MK-GGXYR		XY-Keying S06B-F31MK-GGXYR

Assembly layout

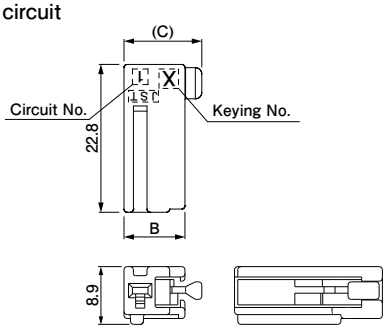
<table>
<tr>
<td>Wire-to-board</td>
<td><Top entry type>
 
</td>
<td><Side entry type>
• Normal type
 

• Reverse type
 
</td>
</tr>
<tr>
<td>Wire-to-wire</td>
<td colspan="2"><Free hanging type / Panel mounting type (Screw type, Housing lock type)>
• Single circuit
 

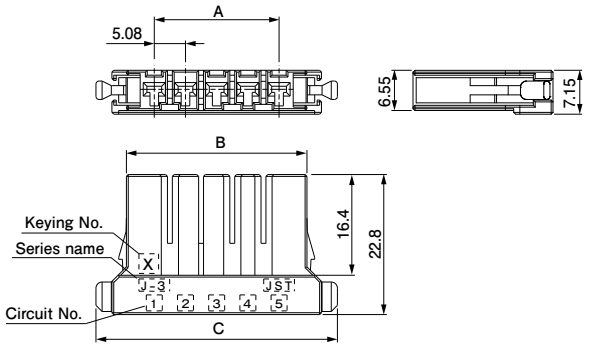
• 2 to 4 circuits
 
</td>
</tr>
</table>

Receptacle housing

• Single circuit



• 2 to 6 circuits



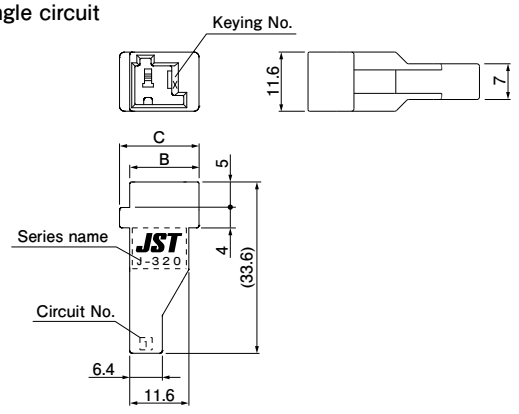
No. of circuits	Keying	Model No.	Dimensions (mm)			Q'ty/bag
			A	B	C	
1	X	F32FSS-01V-KX	—	9.40	12.00	200
	Y	F32FSS-01V-KY	—	9.40	12.00	200
2	X	F32FSS-02V-KX	5.08	14.16	24.08	200
	Y	F32FSS-02V-KY	5.08	14.16	24.08	200
3	X	F32FSS-03V-KX	10.16	19.24	29.16	200
	Y	F32FSS-03V-KY	10.16	19.24	29.16	200
4	X	F32FSS-04V-KX	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 and Surface finish, etc.
Glass-filled PBT, UL94V-0, black

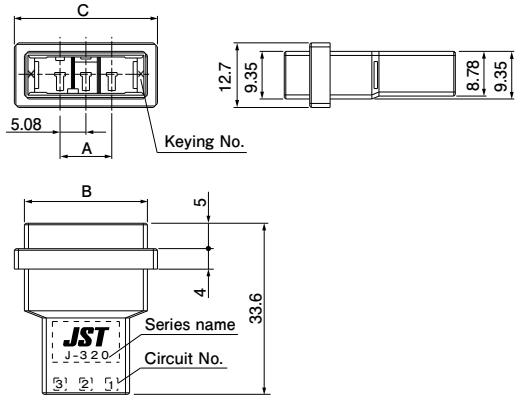
RoHS2 compliance

Tab housing (Free hanging type)

• Single circuit



• 2 to 4 circuits



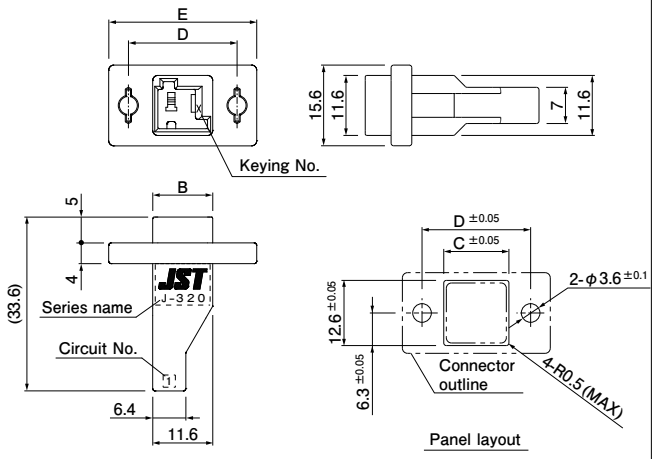
No. of circuits	Keying	Model No.	Dimensions (mm)			Q'ty/bag
			A	B	C	
1	X	F32MSF-01V-KX	—	13.60	15.60	150
	Y	F32MSF-01V-KY	—	13.60	15.60	150
2	X	F32MSF-02V-KX	5.08	19.08	23.03	200
	Y	F32MSF-02V-KY	5.08	19.08	23.03	200
3	X	F32MSF-03V-KX	10.16	24.16	28.11	200
	Y	F32MSF-03V-KY	10.16	24.16	28.11	200
4	X	F32MSF-04V-KX	15.24	29.24	33.19	200
	Y	F32MSF-04V-KY	15.24	29.24	33.19	200

Material and Surface finish, etc.
Glass-filled PBT, UL94V-0, black

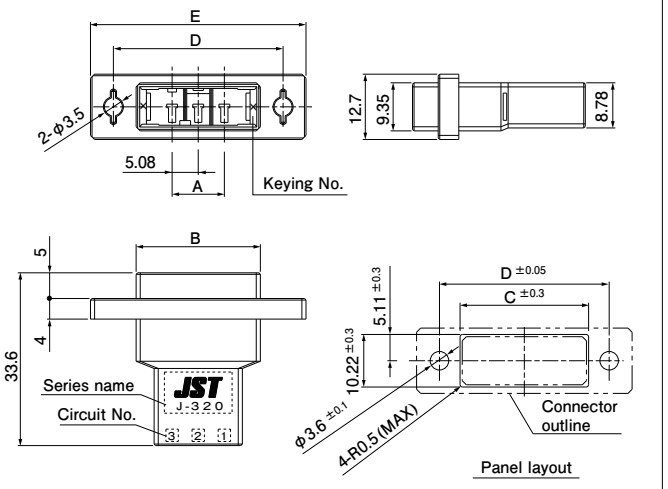
RoHS2 compliance

Tab housing (Panel mounting type)

• **Single circuit**



• **2 to 4 circuits**



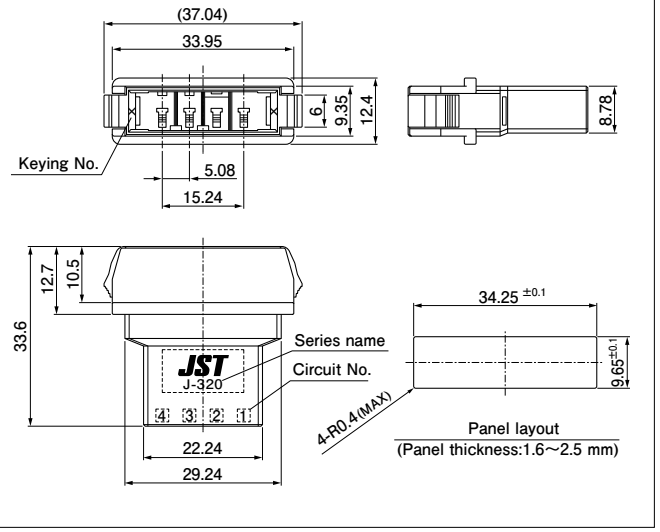
No. of circuits	Keying	Model No.	Dimensions (mm)					Q'ty /bag
			A	B	C	D	E	
1	X	**F32MSP-01V-KX**	—	11.60	12.60	21.00	28.60	150
	Y	**F32MSP-01V-KY**	—	11.60	12.60	21.00	28.60	150
2	X	**F32MSP-02V-KX**	5.08	19.08	20.00	28.00	36.83	200
	Y	**F32MSP-02V-KY**	5.08	19.08	20.00	28.00	36.83	200
3	X	**F32MSP-03V-KX**	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 and Surface finish, etc.
Glass-filled PBT, UL94V-0, black

RoHS2 compliance

Note: 1. Punch holes in the panel. 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.

Tab housing (Panel mounting type Housing lock type)



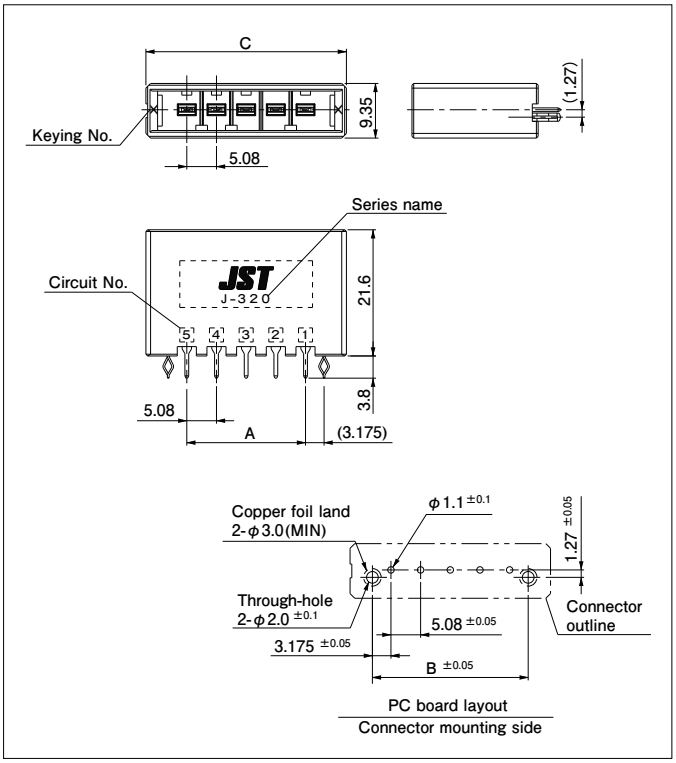
No. of circuits	Keying	Model No.	Q'ty/bag
4	X	**F32MSPL-04V-KX**	90

Material and Surface finish, etc.
Glass-filled PBT, UL94V-0, black

RoHS2 compliance

Note: 1. Punch holes in the panel. 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.
4. Unlisted in TÜV.

Header (Top entry type)



No. of 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

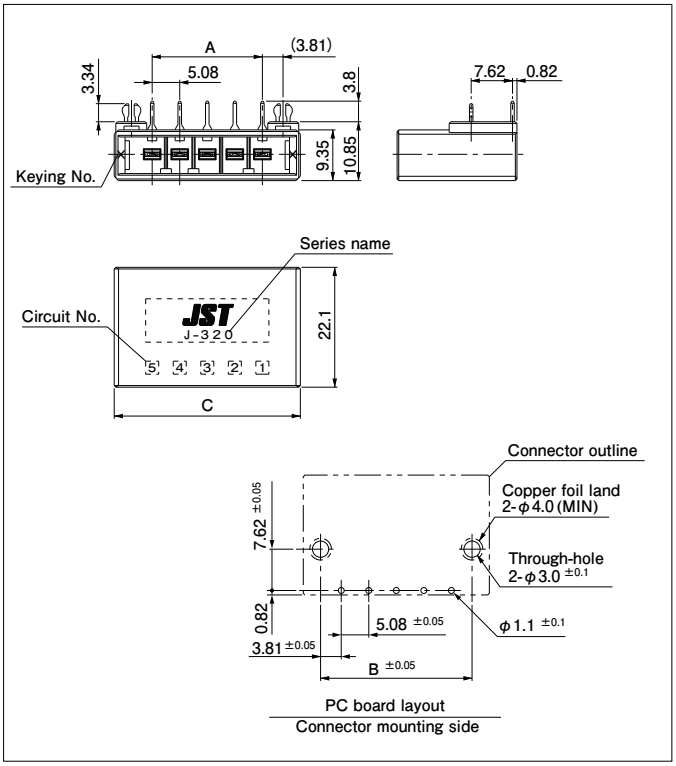
Material and Surface finish, etc.

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcement: Copper alloy, nickel-undercoated, selective gold-plated

RoHS2 compliance This product displays (LF)(AU) on a label.

Note: 1. Contact JST about the headers supplied in magazine stick.
2. Contact JST about 0.76 μm gold-plated product and tin-plated product.

Header (Side entry type)



No. of 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

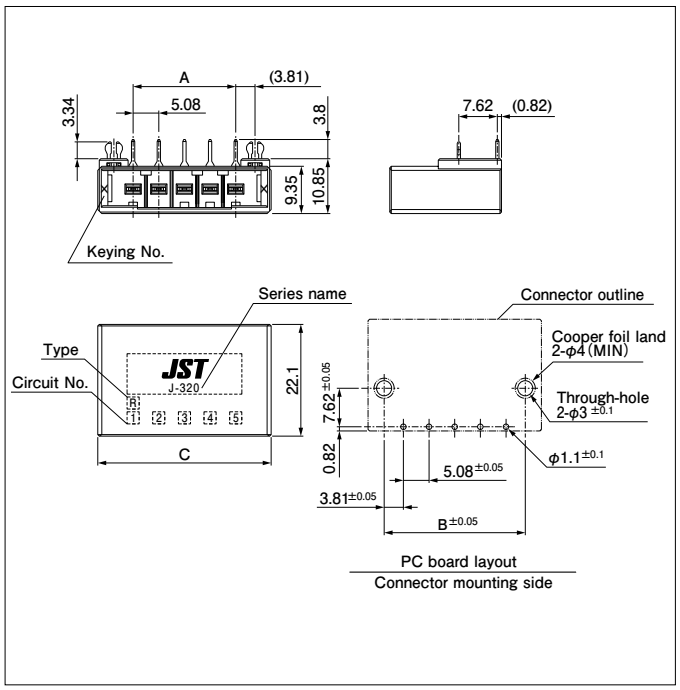
Material and Surface finish, etc.

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcement: Copper alloy, nickel-undercoated, selective gold-plated

RoHS2 compliance This product displays (LF)(AU) on a label.

Note: 1. Contact JST about the headers supplied in magazine stick.
2. Contact JST about 0.76 μm gold-plated product and tin-plated product.

Header (Side entry type Reverse type)



No. of circuits	Keying	Model No.	Dimensions (mm)			Q'ty /box
			A	B	C	
5	X	**SR05B-F32SK-GGXR**	20.32	27.94	34.32	105
6	X	**SR06B-F32SK-GGXR**	25.40	33.02	39.40	90

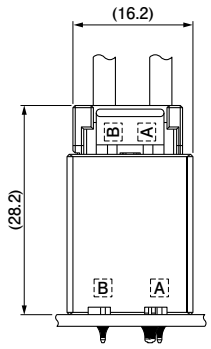
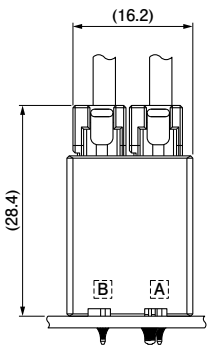
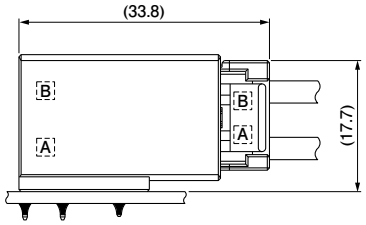
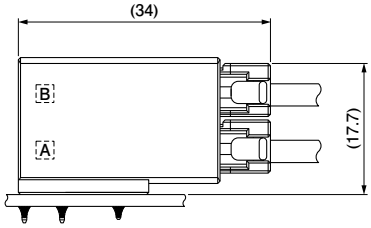
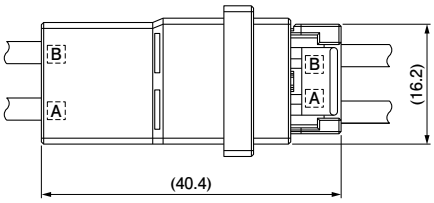
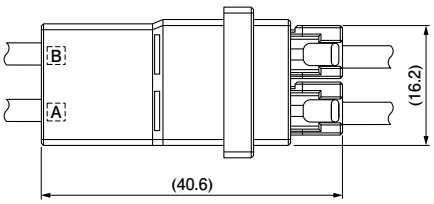
Material and Surface finish, etc.

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcement: Copper alloy, nickel-undercoated, selective gold-plated

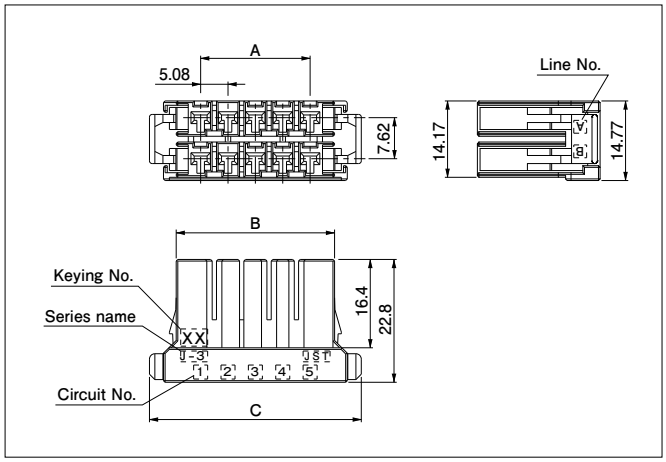
RoHS2 compliance This product displays (LF) (AU) on a label.

Note: 1. Contact JST about the headers supplied in magazine stick.
2. Contact JST about 0.76 μm gold-plated product and tin-plated product
3. Unlisted in TÜV.

Assembly layout

		When mating with J320M receptacle	When mating with J320S receptacle modular
Wire-to-board	Top entry type		
	Side entry type		
Wire-to-wire	Free hanging type / Panel mounting type		

Receptacle housing

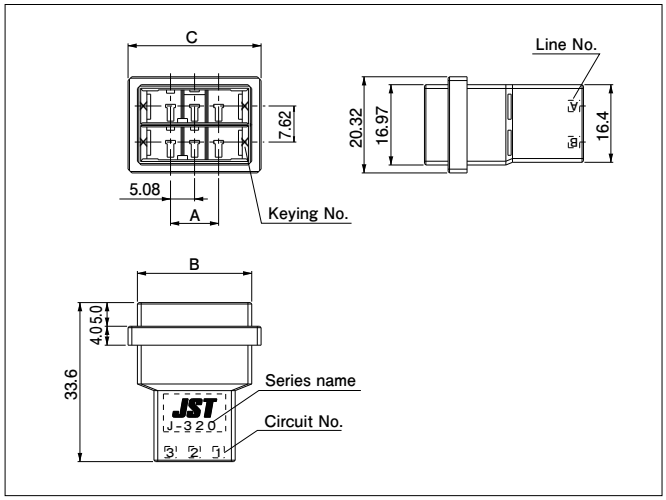


No. of circuits	Keying	Model No.	Dimensions (mm)			Q'ty /bag
			A	B	C	
6	XX	F32FMS-06V-KXX	10.16	19.24	29.16	100
	YY	F32FMS-06V-KYY	10.16	19.24	29.16	100
	XY	F32FMS-06V-KXY	10.16	19.24	29.16	100
10	XX	F32FMS-10V-KXX	20.32	29.40	39.32	100
	YY	F32FMS-10V-KYY	20.32	29.40	39.32	100
	XY	F32FMS-10V-KXY	20.32	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	84(box)

Material and Surface finish, etc.
Glass-filled PBT, UL94V-0, black

RoHS2 compliance

Tab housing (Free hanging type)

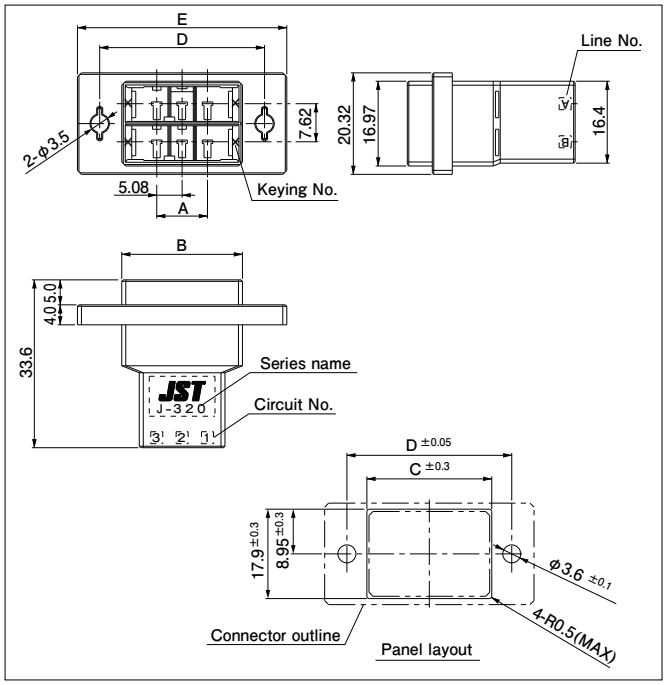


No. of circuits	Keying	Model No.	Dimensions (mm)			Q'ty /bag
			A	B	C	
6	XX	F32MDF-06V-KXX	10.16	24.16	28.11	100
	YY	F32MDF-06V-KYY	10.16	24.16	28.11	100
	XY	F32MDF-06V-KXY	10.16	24.16	28.11	100
12	XX	F32MDF-12V-KXX	25.40	39.40	43.35	100
	YY	F32MDF-12V-KYY	25.40	39.40	43.35	100
	XY	F32MDF-12V-KXY	25.40	39.40	43.35	100

Material and Surface finish, etc.
Glass-filled PBT, UL94V-0, black

RoHS2 compliance

Tab housing (Panel mounting type)



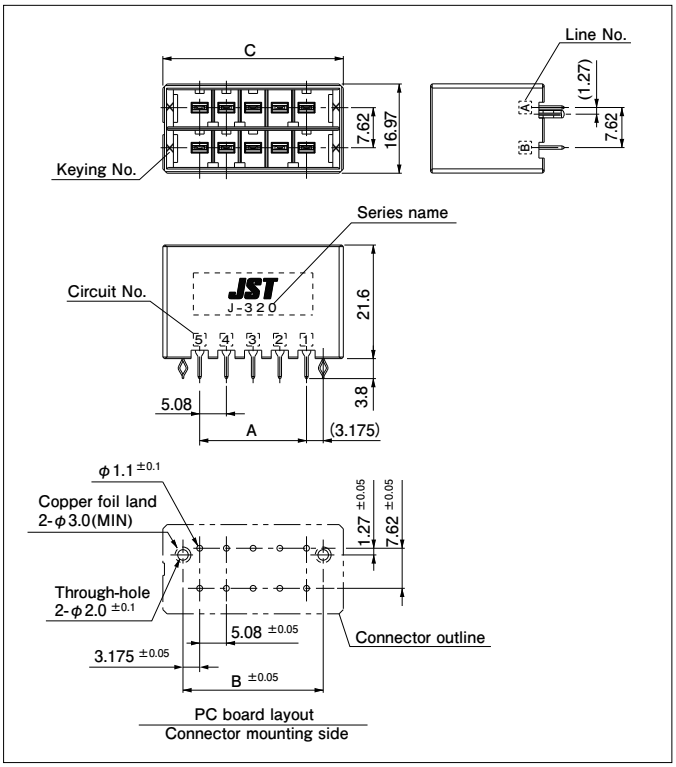
No. of circuits	Keying	Model No.	Dimensions (mm)					Q'ty /bag
			A	B	C	D	E	
6	XX	F32MDP-06V-KXX	10.16	24.16	25.00	33.00	41.91	100
	YY	F32MDP-06V-KYY	10.16	24.16	25.00	33.00	41.91	100
	XY	F32MDP-06V-KXY	10.16	24.16	25.00	33.00	41.91	100
12	XX	F32MDP-12V-KXX	25.40	39.40	41.00	49.00	57.91	100
	YY	F32MDP-12V-KYY	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	42(box)

Material and Surface finish, etc.
Glass-filled PBT, UL94V-0, black

RoHS2 compliance

Note: 1. Punch holes in the panel. 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.

Header (Top entry type)



No. of 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-GGYYR	10.16	16.51	24.16	120
	XY	B06B-F32MK-GGXYR	10.16	16.51	24.16	120
10	XX	B10B-F32MK-GGXXR	20.32	26.67	34.32	84
	YY	B10B-F32MK-GGYYR	20.32	26.67	34.32	84
	XY	B10B-F32MK-GGXYR	20.32	26.67	34.32	84
12	XX	B12B-F32MK-GGXXR	25.40	31.75	39.40	72
	YY	B12B-F32MK-GGYYR	25.40	31.75	39.40	72
	XY	B12B-F32MK-GGXYR	25.40	31.75	39.40	72

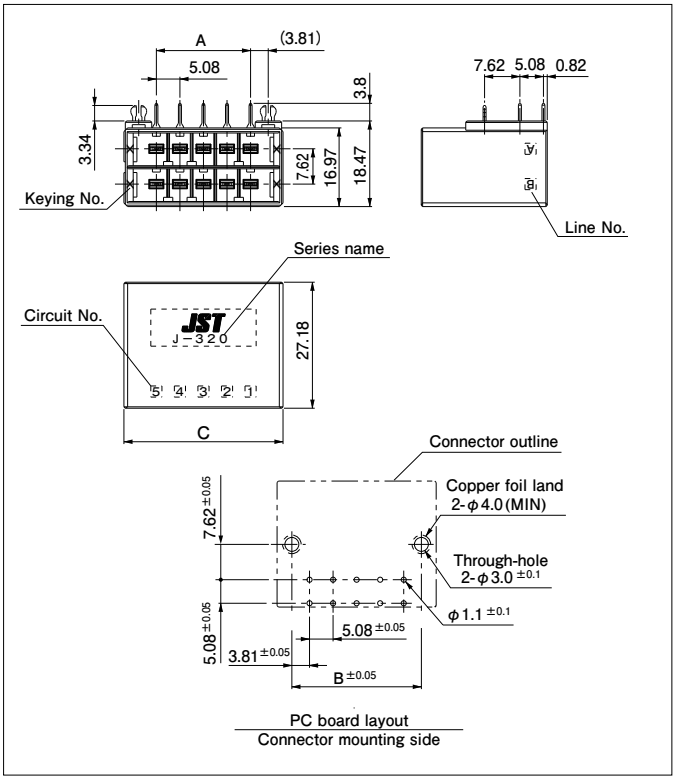
Material and Surface finish, etc.

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcement: Copper alloy, nickel-undercoated, selective gold-plated

RoHS2 compliance This product displays (LF) (AU) on a label.

Note: 1. Contact JST about the headers supplied in magazine stick.
2. Contact JST about 0.76μm gold-plated product and tin-plated product.

Header (Side entry type)



No. of 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-GGYYR	10.16	17.78	24.16	80
	XY	S06B-F32MK-GGXYR	10.16	17.78	24.16	80
8	XY	S08B-F32MK-GGXYR	15.24	22.86	29.24	64
10	XX	S10B-F32MK-GGXXR	20.32	27.94	34.32	56
	YY	S10B-F32MK-GGYYR	20.32	27.94	34.32	56
	XY	S10B-F32MK-GGXYR	20.32	27.94	34.32	56
12	XX	S12B-F32MK-GGXXR	25.40	33.02	39.40	48
	YY	S12B-F32MK-GGYYR	25.40	33.02	39.40	48
	XY	S12B-F32MK-GGXYR	25.40	33.02	39.40	48

Material and Surface finish, etc.

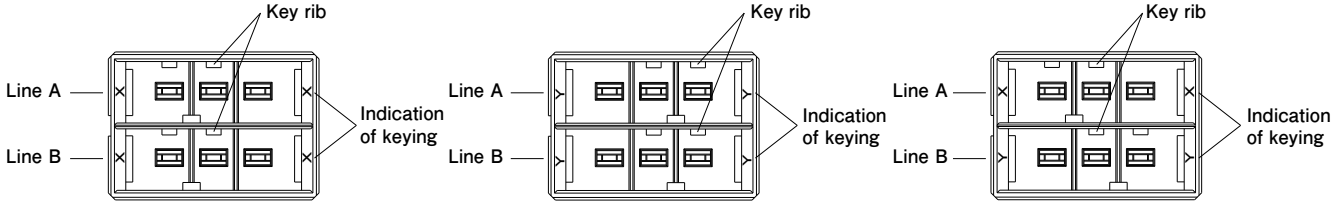
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcement: Copper alloy, nickel-undercoated, selective gold-plated

RoHS2 compliance This product displays (LF) (AU) on a label.

Note: 1. Contact JST about the headers supplied in magazine stick.
2. Contact JST about 0.76μm gold-plated product and tin-plated product.

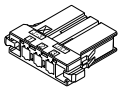
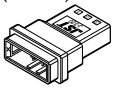
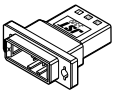
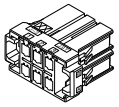
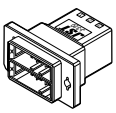
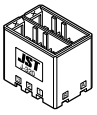
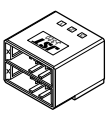
Keying

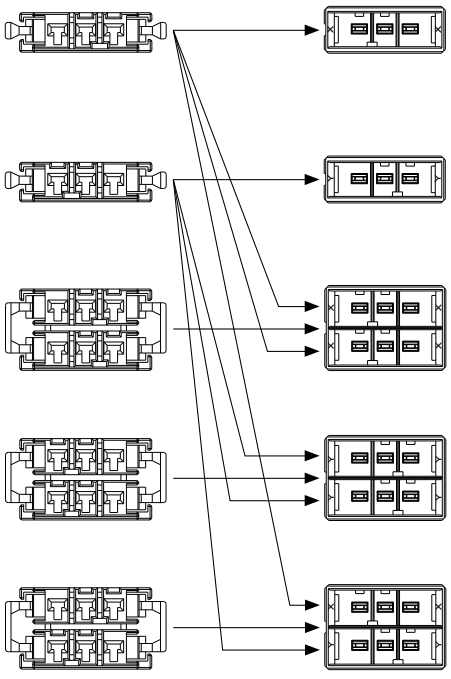
J320M series have mis-insertion preventive keying.
Available in 3 types — XX-Keying, YY-Keying and XY-Keying.
(Headers viewed from the mating side are shown below.)



List of combinations

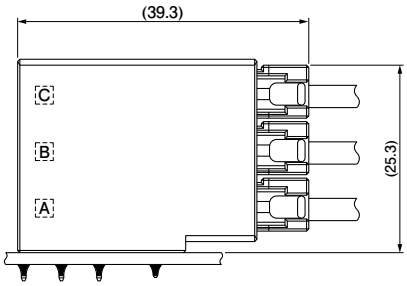
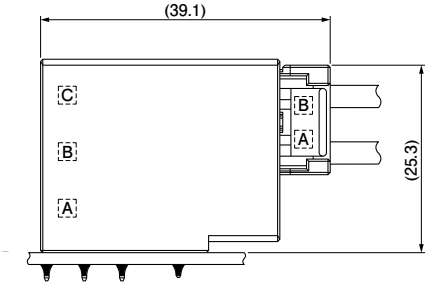
With the combination of the J320M headers and the J320M/J320S receptacle housings, the following modular combinations are possible.

Receptacle housing		Tab housing		Header	
Single-row 3, 4, 5, 6 circuits (J320S) 	X-Keying F32FSS-■V-KX	Single-row 3, 4 circuits (J320S)  Free hanging type  Panel mounting type	X-Keying Free hanging type F32MSF-■V-KX Panel mounting type F32MSP-■■V-KX	Single-row 3, 4, 5, 6 circuits (J320S) Top entry type Side entry type	X-Keying Top entry type B■B-F32SK-GGXR Side entry type S■■B-F32SK-GGXR
	Y-Keying F32FSS-■V-KY		Y-Keying Free hanging type F32MSF-■■V-KY Panel mounting type F32MSP-■■V-KY		Y-Keying Top entry type B■B-F32SK-GGYR Side entry type S■B-F32SK-GGYR
Dual-row 6,10,12,20 circuits (J320M) 	XX-Keying F32FMS-■V-KXX	Dual-row 6,12,20 circuits (J320M) Free hanging type  Panel mounting type	XX-Keying Free hanging type F32MDF-■■V-KXX Panel mounting type F32MDP-■■V-KXX	Dual-row 6, 8,10,12 circuits (J320M)  Top entry type  Side entry type	XX-Keying Top entry type B■B-F32MK-GGXXR Side entry type S■B-F32MK-GGXXR
	YY-Keying F32FMS-■V-KYY		YY-Keying Free hanging type F32MDF-■V-KYY Panel mounting type F32MDP-■■V-KYY		YY-Keying Top entry type B■B-F32MK-GGYYR Side entry type S■B-F32MK-GGYYR
	XY-Keying F32FMS-■■V-KXY		XY-Keying Free hanging type F32MDF-■V-KXY Panel mounting type F32MDP-■V-KXY		XY-Keying Top entry type B■B-F32MK-GGXYR Side entry type S■B-F32MK-GGXYR



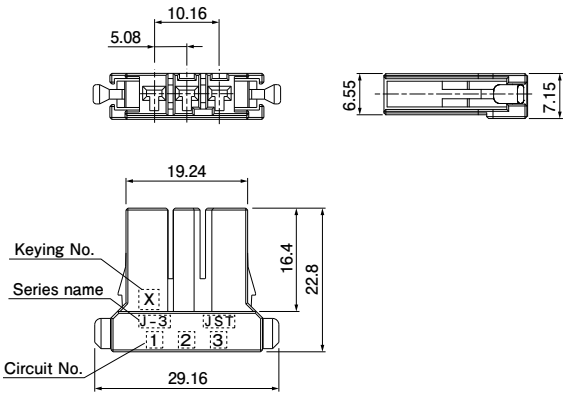
Note: Number of circuits is indicated in ■■.

Assembly layout

		When mating with J320S receptacle	When mating with J320M receptacle
Wire-to-board	Side entry type		

Receptacle housing

Single-row type
• 3 circuits

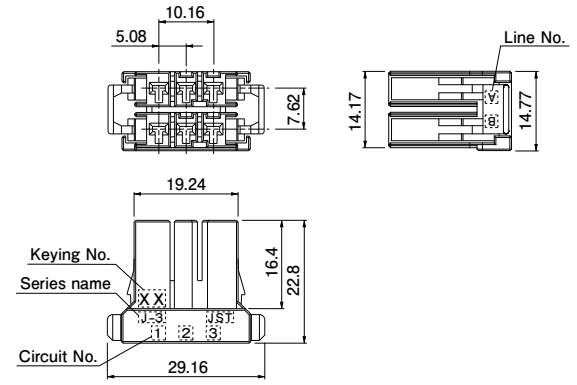


No. of circuits	Keying	Model No.	Q'ty/bag
3	X	**F32FSS-03V-KX**	200
	Y	**F32FSS-03V-KY**	200

Material and Surface finish, etc.
Glass-filled PBT, UL94V-0, black

RoHS2 compliance

Dual-row type
• 6 circuits

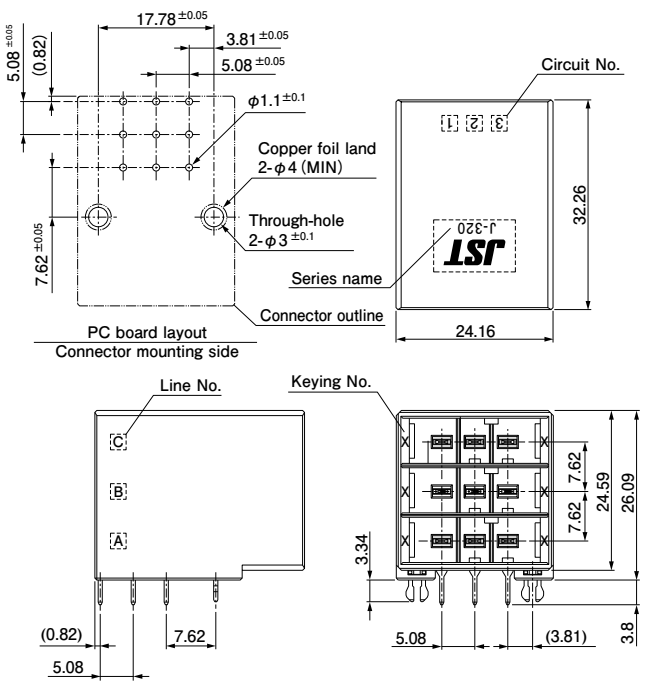


No. of circuits	Keying	Model No.	Q'ty/bag
6	XX	**F32FMS-06V-KXX**	100
	YY	**F32FMS-06V-KYY**	100
	XY	**F32FMS-06V-KXY**	100

Material and Surface finish, etc.
Glass-filled PBT, UL94V-0, black

RoHS2 compliance

Header (Side entry type)



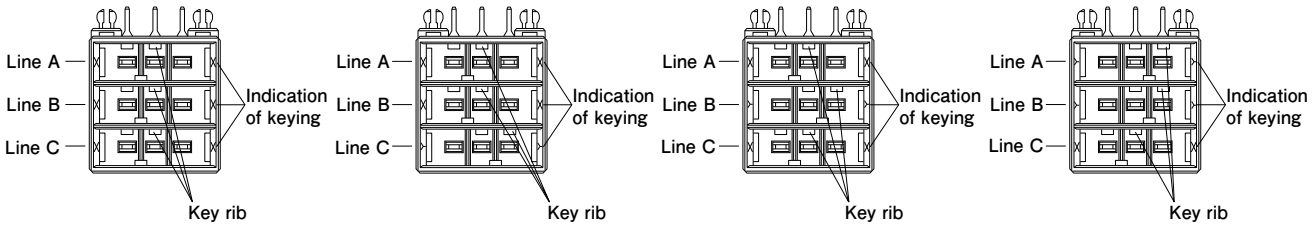
No. of circuits	Keying	Model No.	Q'ty/box
9	XXX	**S09B-F32TK-GGXAR**	42
	XXY	**S09B-F32TK-GGXBR**	42
	XYX	**S09B-F32TK-GGXCR**	42
	YYX	**S09B-F32TK-GGXDR**	42

Material and Surface finish, etc.
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated Housing: Glass-filled PBT, UL94V-0, black Reinforcement: Copper alloy, nickel-undercoated, selective gold-plated

RoHS2 compliance This product displays (LF)(AU) on a label.
Note: Contact JST about 0.76 μm gold-plated product and tin-plated product.

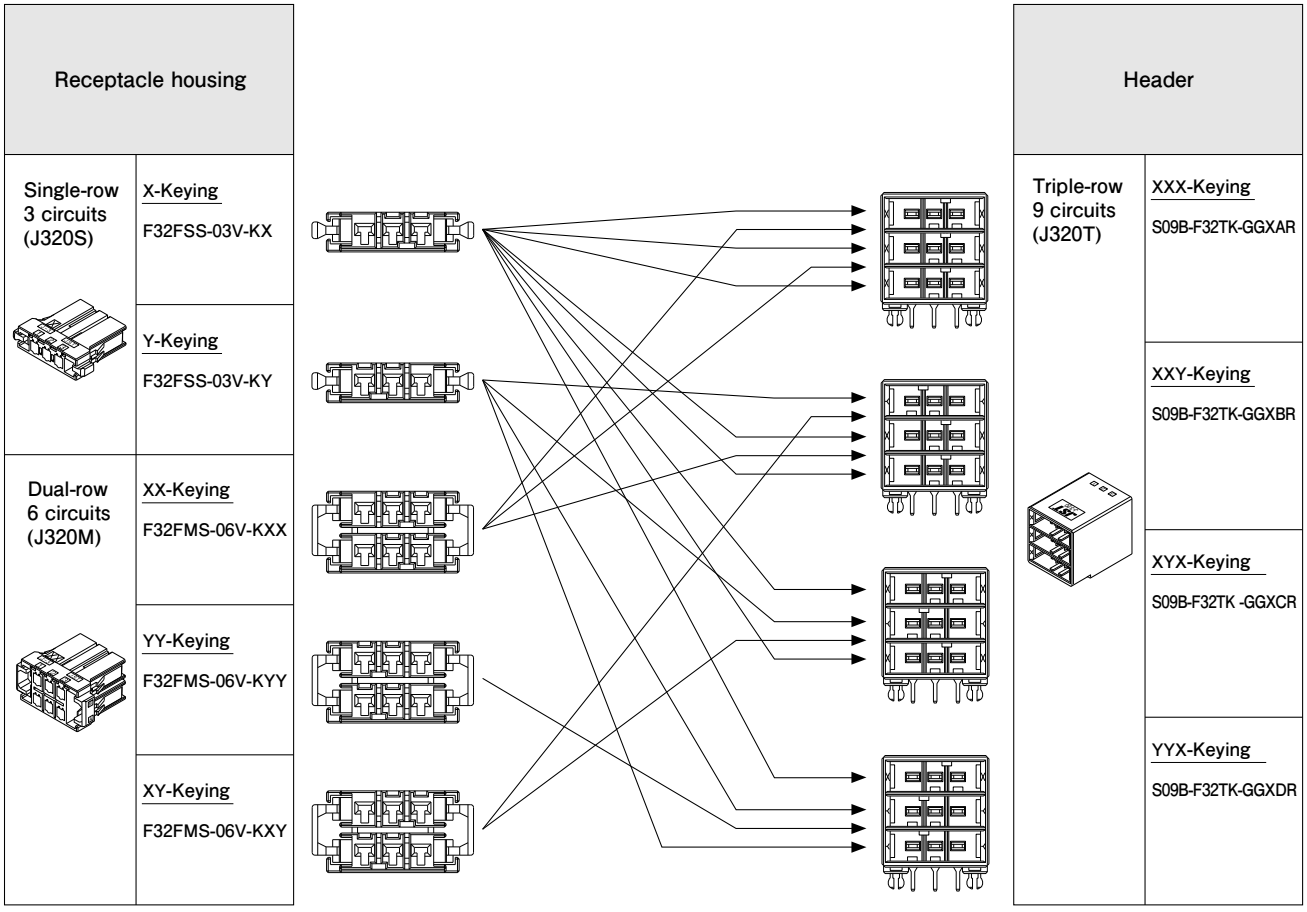
Keying

J320T series have mis-insertion preventive keying.
Available in 4 types — XXX-Keying, XXY-Keying, XYX-Keying and YYX-Keying.
(Headers viewed from the mating side are shown below.)



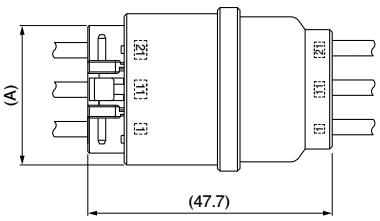
List of combinations

With the combination of the J320T headers and the J320S/J320M receptacle housings, the following modular combinations are possible.



Assembly layout

Wire-to-board



* Please refer to the "Handling Precautions for Terminals and Connectors" on our website (listed in the "Technical Documents" column on the Product Information page) before use.
* Dimensional unit : mm
* RoHS2 Compliance
* Contact JST for details.

Specifications

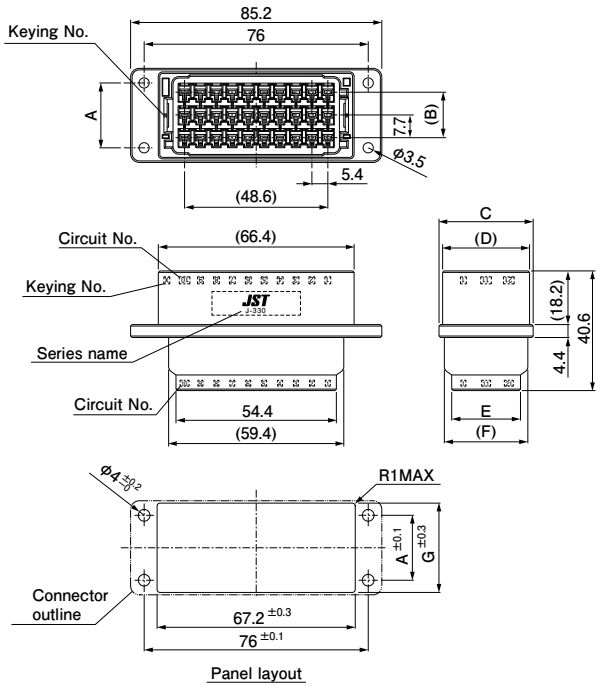
・Current rating: AC/DC

Current unit: A

No. of circuits	Wire size (AWG)				Dimensions (mm)
	#14	#16	#18	#20	A
30	8.5	7.0	5.5	4.0	27.2
40	8.5	7.0	5.5	4.0	34.9

・Voltage rating: 600 V AC/DC
・Temperature range: −55℃ to +105℃
(including temperature rise in applying electrical current)
・Contact resistance: Initial value/ 5 mΩ max.
After environmental tests/ 10 mΩ max.
・Insulation resistance: 1,000 MΩ min.
・Withstanding voltage: 2,200 VAC/minute
・Applicable wire: AWG #28 to #14

Receptacle housing (Reverse type Panel mounting type)



No. of circuits	Keying	Model No.	Dimensions (mm)							Q'ty /box
			A	B	C	D	E	F	G	
30	X	F33FRTPA-30V-KX	22.0	15.4	31.9	29.5	23.3	28.3	30.3	56
	Y	F33FRTPA-30V-SY	22.0	15.4	31.9	29.5	23.3	28.3	30.3	56
	Z	F33FRTPA-30V-EZ	22.0	15.4	31.9	29.5	23.3	28.3	30.3	56
40	X	F33FRFPA-40V-KX	29.7	23.1	39.6	37.2	31.0	36.0	38.0	12
	Y	F33FRFPA-40V-SY	29.7	23.1	39.6	37.2	31.0	36.0	38.0	12
	Z	F33FRFPA-40V-EZ	29.7	23.1	39.6	37.2	310	36.0	38.0	12
	W	F33FRFPA-40V-MW	29.7	23.1	39.6	37.2	31.0	36.0	38.0	12

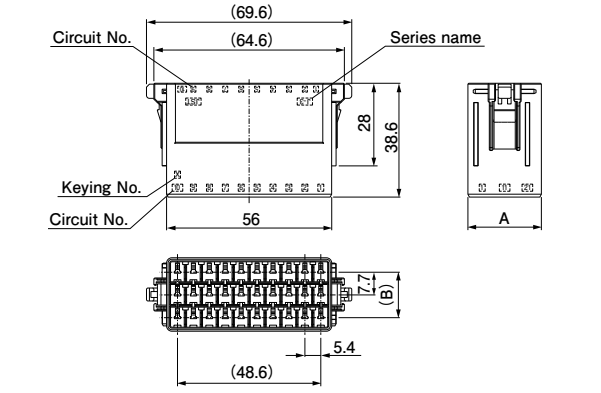
Material and Surface finish, etc.

Glass-filled PBT, UL94V-0, X-Keying (black), Y-Keying (white), Z-Keying (blue), W-Keying (green)

RoHS2 compliance

Note: 1. Punch holes in the panel. 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.
4. Unlisted in UL/TÜV.

Tab housing (Reverse type)



No. of circuits	Keying	Model No.	Dimensions (mm)		Q'ty /box
			A	B	
30	X	F33MRTS-30V-KX	24.9	15.4	64
	Y	F33MRTS-30V-SY	24.9	15.4	64
	Z	F33MRTS-30V-EZ	24.9	15.4	64
40	X	F33MRFS-40V-KX	32.6	23.1	64
	Y	F33MRFS-40V-SY	32.6	23.1	64
	Z	F33MRFS-40V-EZ	32.6	23.1	64
	W	F33MRFS-40V-MW	32.6	23.1	64

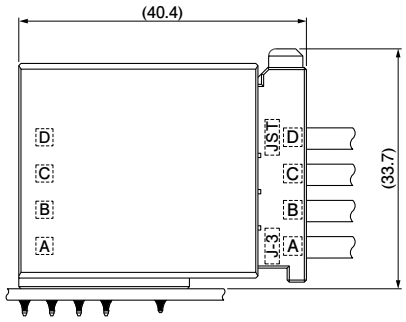
Material and Surface finish, etc.

Glass-filled PBT, UL94V-0, X-Keying (black), Y-Keying (white), Z-Keying (blue), W-Keying (green)

RoHS2 compliance

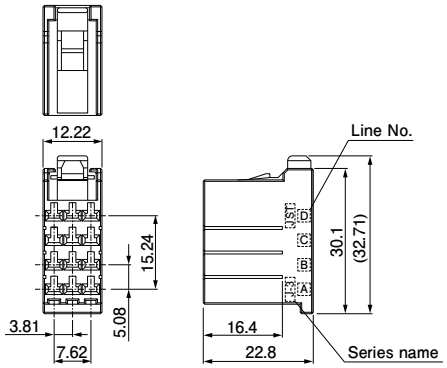
Note: Unlisted in UL/TÜV.

Assembly layout

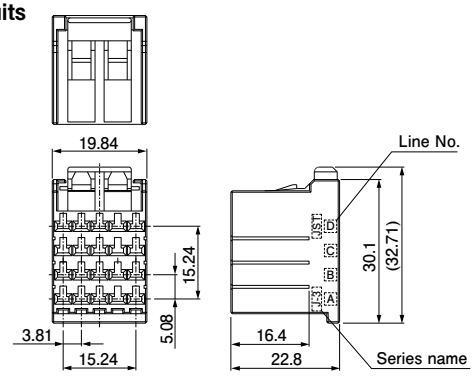
Wire-to-board	Side entry type	

Receptacle housing

• 12 circuits



• 20 circuits

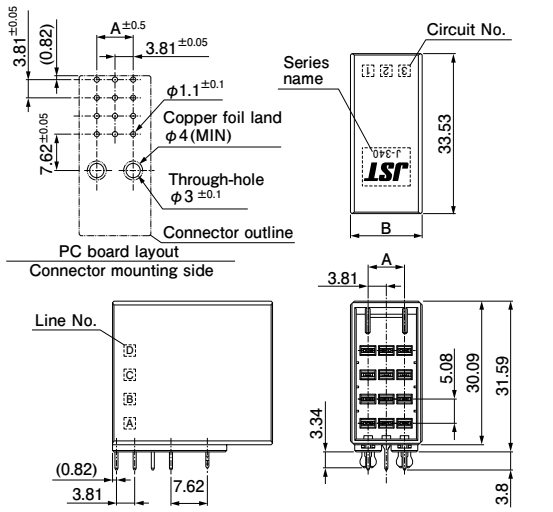


No. of circuits	Keying	Model No.	Q'ty/bag
12	—	**F34FFC-12V-K**	100
20	—	**F34FFC-20V-K**	100

Material and Surface finish, etc.
Glass-filled PBT, UL94V-0, black

RoHS2 compliance

Header (Side entry type)

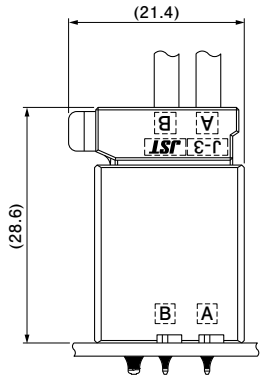
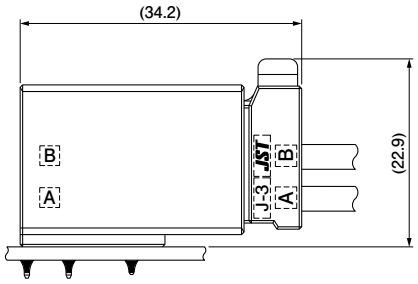
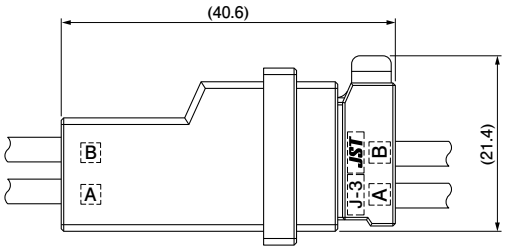


No. of circuits	Keying	Model No.	Dimensions (mm)		Q'ty/box
			A	B	
12	—	**SC12B-F34FK-GGR**	7.62	15.02	63
20	—	**SC20B-F34FK-GGR**	15.24	22.64	42

Material and Surface finish, etc.
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated Housing: Glass-filled PBT, UL94V-0, black Reinforcement: Copper alloy, nickel-undercoated, selective gold-plated

RoHS2 compliance This product displays (LF)(AU) on a label.
Note: Contact JST about 0.76 μm gold-plated product and tin-plated product.

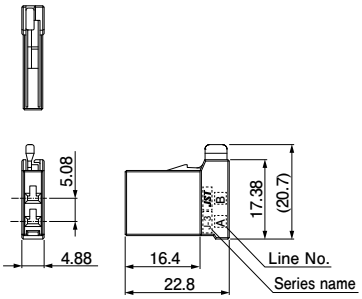
Assembly layout

Wire-to-board	<Top entry type> 	<Side entry type> 
Wire-to-wire	<Free hanging type / Panel mounting type> 	

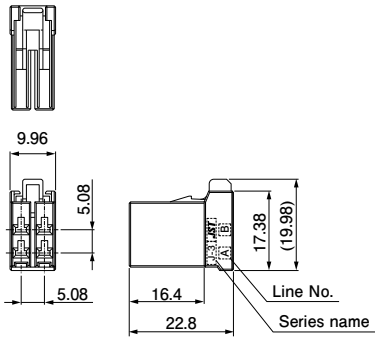
*When mating with receptacle housing (2-circuit)

Receptacle housing

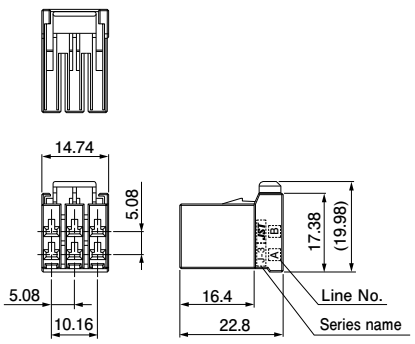
• 2 circuits



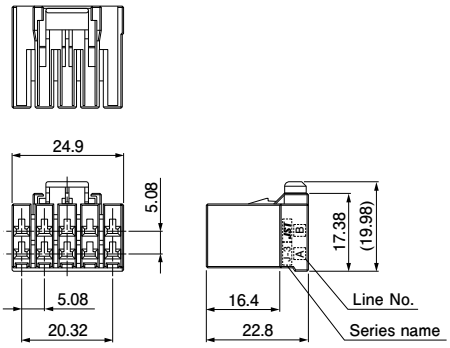
• 4 circuits



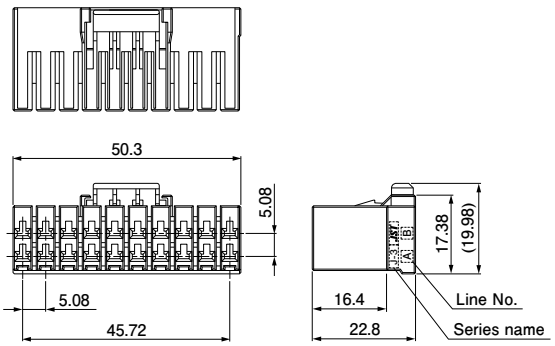
• 6 circuits



• 10 circuits



• 20 circuits

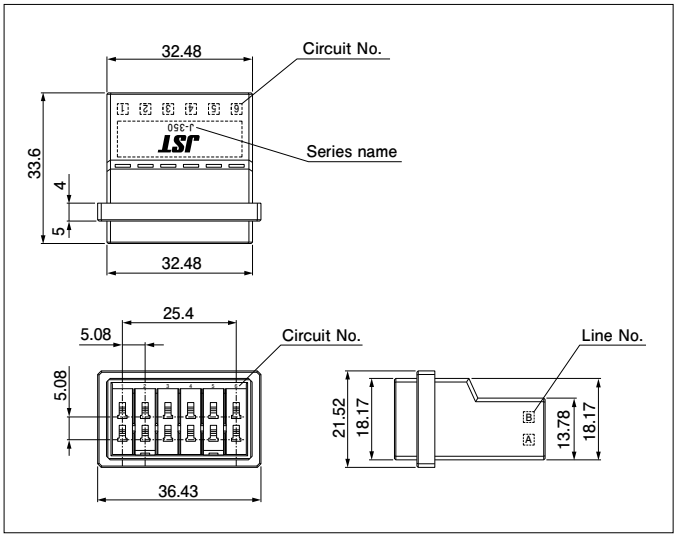


No. of circuits	Keying	Model No.	Q'ty/bag
2	—	**F35FDC-02V-K**	200
4	—	**F35FDC-04V-K**	200
6	—	**F35FDC-06V-K**	200
10	—	**F35FDC-10V-K**	100

Material and Surface finish, etc.
Glass-filled PBT, UL94V-0, black

RoHS2 compliance

Tab housing (Free hanging type)

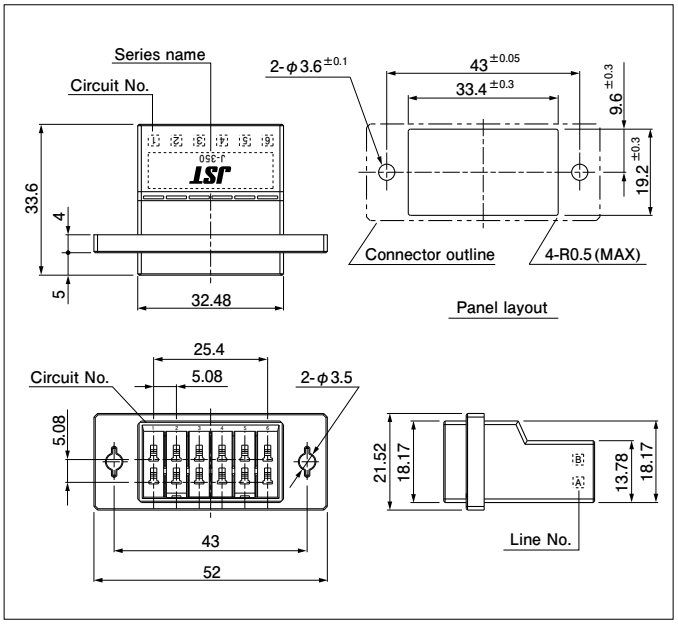


No. of circuits	Keying	Model No.	Q'ty/box
12	—	**F35MDF-12V-K**	50

Material and Surface finish, etc.
Glass-filled PBT, UL94V-0, black

RoHS2 compliance
Note: Unlisted in TÜV.

Tab housing (Panel mounting type)

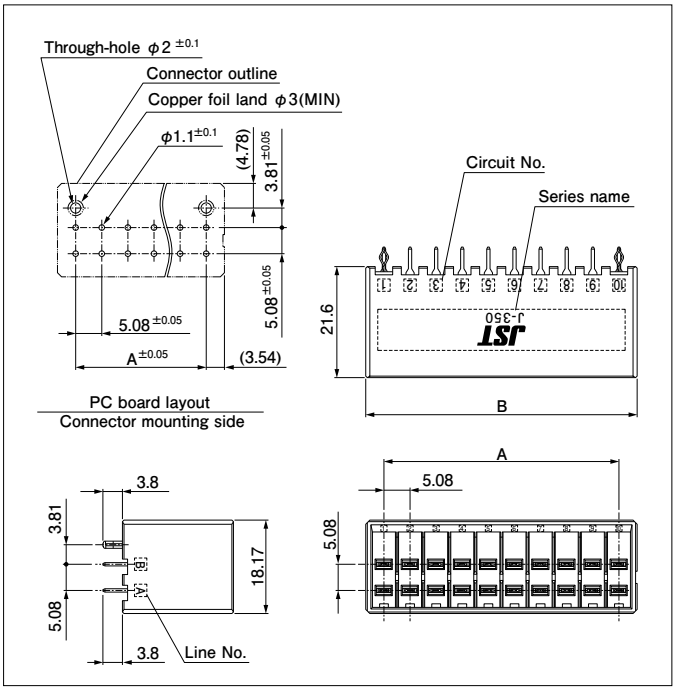


No. of circuits	Keying	Model No.	Q'ty/box
12	—	**F35MDP-12V-K**	41

Material and Surface finish, etc.
Glass-filled PBT, UL94V-0, black

RoHS2 compliance
Note: 1. Punch holes in the panel. 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.
4. Unlisted in TÜV.

Header (Top entry type)



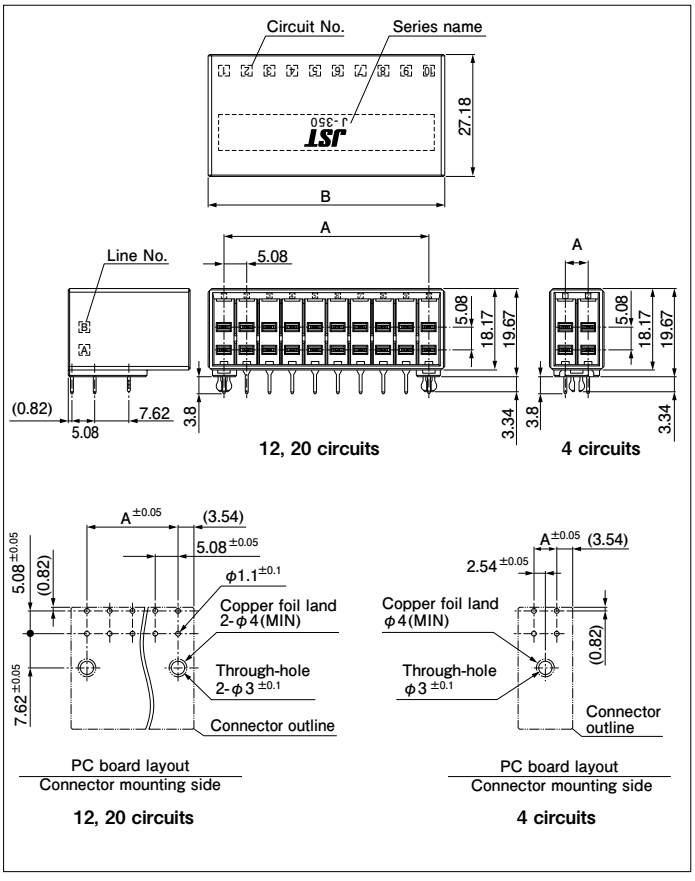
No. of circuits	Keying	Model No.	Dimensions (mm)		Q'ty/box
			A	B	
12	—	BC12B-F35DK-GGR	25.40	32.48	56
20	—	BC20B-F35DK-GGR	45.72	52.80	32

Material and Surface finish, etc.

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcement: Copper alloy, nickel-undercoated, selective gold-plated

RoHS2 compliance This product displays (LF)(AU) on a label.
Note: Contact JST about 0.76 μm gold-plated product and tin-plated product.

Header (Side entry type)



No. of circuits	Keying	Model No.	Dimensions (mm)		Q'ty/box
			A	B	
4	—	SC04B-F35DK-GGR	5.08	12.16	152
12	—	SC12B-F35DK-GGR	25.40	32.48	56
20	—	SC20B-F35DK-GGR	45.72	52.80	32

Material and Surface finish, etc.

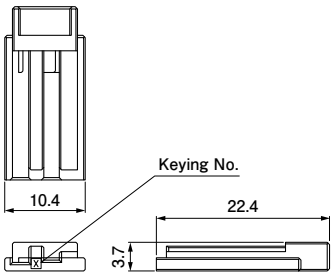
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcement: Copper alloy, nickel-undercoated, selective gold-plated

RoHS2 compliance This product displays (LF)(AU) on a label.
Note: Contact JST about 0.76 μm gold-plated product and tin-plated product.

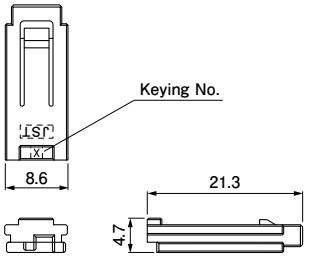
J300 SERIES/J380D (for keying block)

Keying block

<For receptacle housing>



<For header housing>



	Keying	Model No.	Q'ty/bag
For receptacle housing	X	**J3KF-VR-X**	1,000
	Y	**J3KF-VY-Y**	1,000
	Z	**J3KF-VE-Z**	1,000
	W	**J3KF-VS-W**	1,000
For header housing	X	**J3KM-VR-X**	1,000
	Y	**J3KM-VY-Y**	1,000
	Z	**J3KM-VE-Z**	1,000
	W	**J3KM-VS-W**	1,000

Material and Surface finish, etc.
Glass-filled PBT, UL94V-0, X-Keying (red), Y-Keying (yellow), Z-Keying (blue), W-Keying (white)

RoHS2 compliance
Note: Unlisted in UL / TÜV.

Features

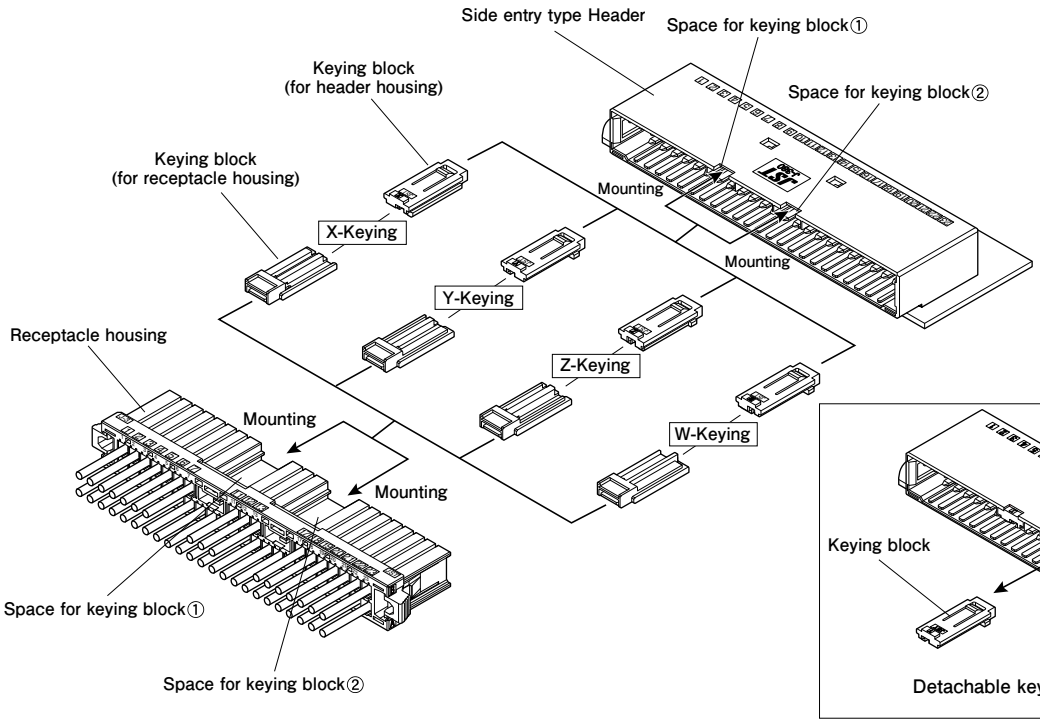
Mis-mating prevention keying block can be freely mounted to keying block space.

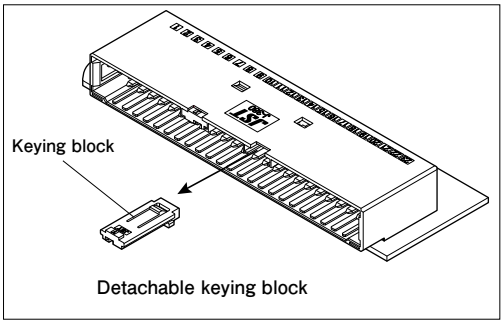
- **16 types of keying can be provided by mounting 4 types of keying block to 2 keying block spaces.**
- **Since a color varies on each type of keying, the kind of keying is easy to recognize.**

Variation of keying

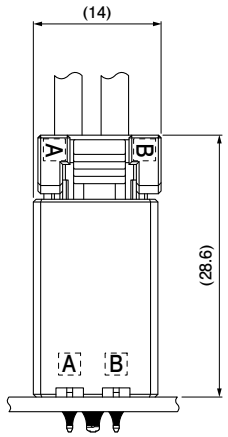
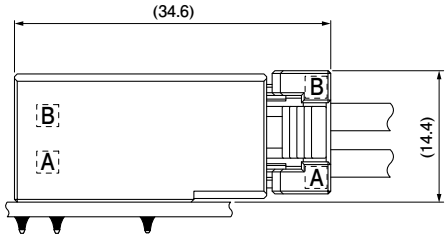
	X-Keying (red)	Y-Keying (yellow)	Z-Keying (blue)	W-Keying (white)
For header housing				
For receptacle housing				

How to use keying block (When using J380D)

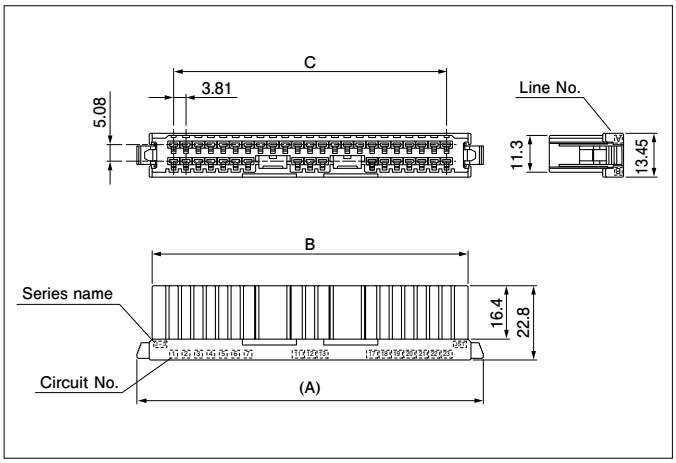




Assembly layout

Wire-to-board	<Top entry type>  	<Side entry type> 

Receptacle housing



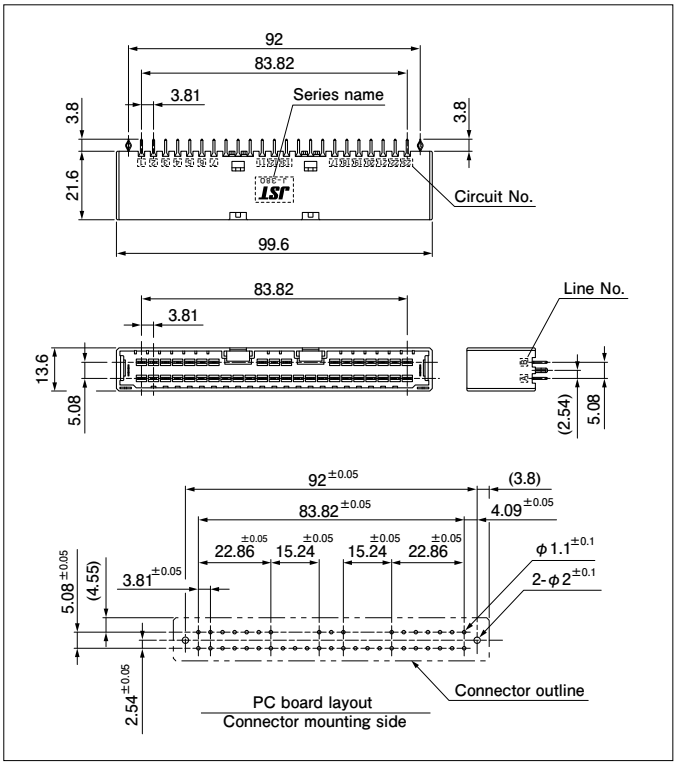
No. of circuits	Keying	Model No.	Dimensions (mm)			Q'ty /bag
			A	B	C	
20	—	**F38FDS-20V-KE**	68.3	58.9	45.72	100
40	—	**F38FDS-40V-KE**	106.4	97.0	83.82	60

Material and Surface finish, etc.
Glass-filled PBT, UL94V-0, black

RoHS2 compliance This product displays (LF)(AU) on a label.
Note: Unlisted in UL / TÜV.

J300 SERIES/J380D (for keying block)

Header (Top entry type)



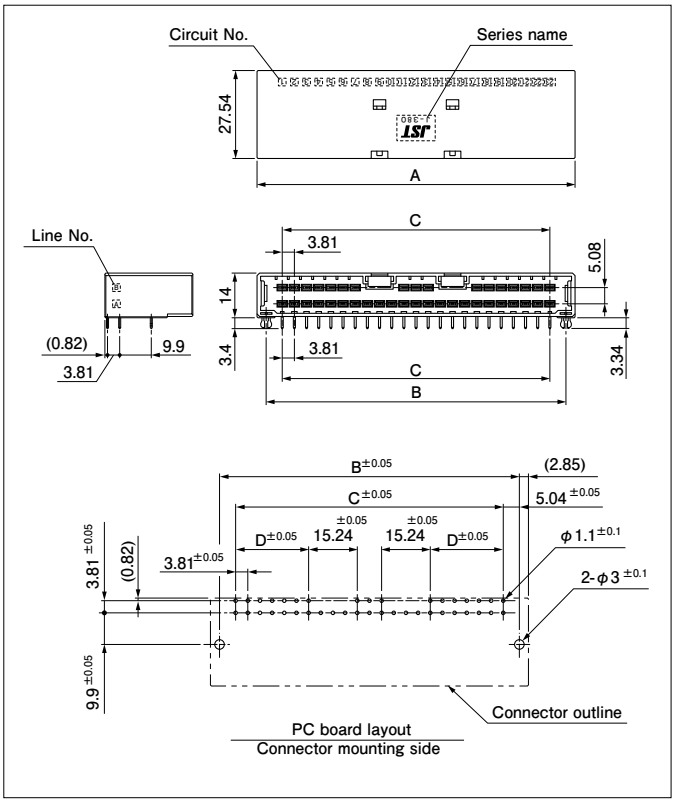
No. of circuits	Keying	Model No.	Q'ty/box
40	—	**B40B-F38DK-GGER**	24

Material and Surface finish, etc.

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcement: Copper alloy, nickel-undercoated, selective gold-plated

RoHS2 compliance This product displays (LF) (AU) on a label.
Note: 1. Contact JST about 0.76 μm gold-plated product and tin-plated product.
2. Unlisted in UL / TÜV.

Header (Side entry type)

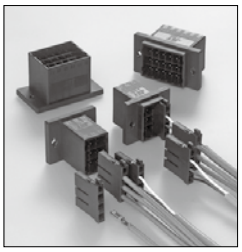


No. of circuits	Keying	Model No.	Dimensions (mm)				Q'ty /box
			A	B	C	D	
20	—	**S20B-F38DK-GGER**	61.5	55.8	45.72	3.81	120
40	—	**S40B-F38DK-GGER**	99.6	93.9	83.82	22.86	72

Material and Surface finish, etc.

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcement: Copper alloy, nickel-undercoated, selective gold-plated

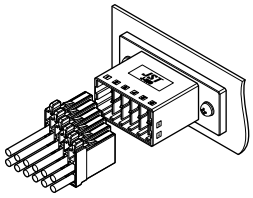
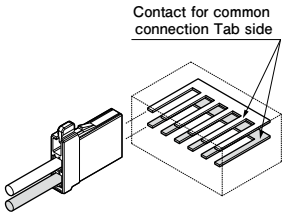
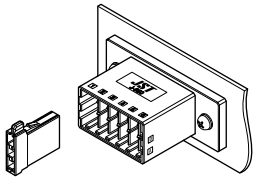
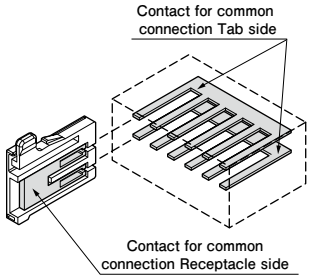
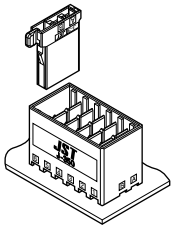
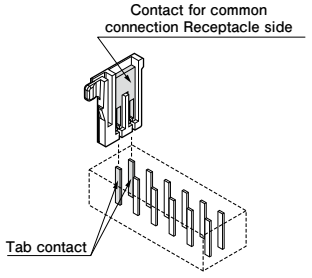
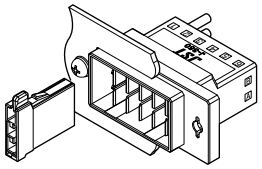
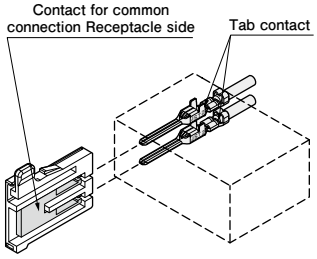
RoHS2 compliance This product displays (LF)(AU) on a label.
Note: 1. Contact JST about 0.76 μm gold-plated product and tin-plated product.
2. Unlisted in UL / TÜV.



J300 SERIES COMMON TYPE/J350D

Dual-row Common type (J350D)

Current unit: A

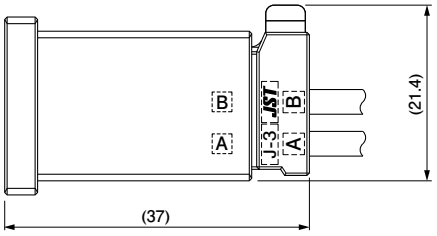
Receptacle side	Tab side	Appearance	Circuit figure	Current rating (AC, DC) Wire size (AWG) Circuit	Note 1	#14	#16	#18	#20	Remark
Normal Receptacle hosuing	Contact for common connection Tab side			12	—	13.0	11.5	9.5	7.5	Total input current on single-row
Receptacle hosuing assembly with common connection	Contact for common connection Tab side			12	—	13.0	11.5	9.5	7.5	Total input current on all circuits
	Header			4	11.25	11.25	11.25	10.0	8.0	—
				12	8.25	8.25	8.25	7.75	6.0	
				20	8.0	8.0	8.0	7.25	6.0	
	Tab housing			12	—	8.25	8.25	7.75	6.0	—

Note: Use only receptacle housing assembly with common cnnection.

・ Rationalization of wiring is realized by the common connection inside the connector

Assembly layout

Direct mounting type



*When mating with receptacle housing (2-circuit)

Specifications

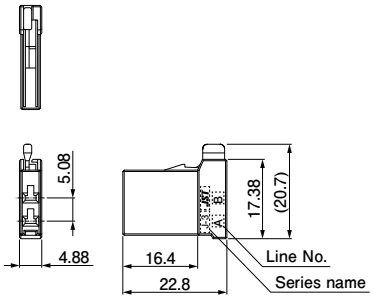
・ Current rating: Refer to the above table.
・ Voltage rating: 600 V AC/DC
・ Temperature range: −55℃ to +105℃
(including temperature rise in applying electrical current)
・ Contact resistance: Initial value/ 10 mΩ max.
After environmental tests/ 20 mΩ max.
・ Insulation resistance: 1,000 MΩ min.
・ Withstanding voltage: 2,200 VAC/minute
・ Applicable wire: AWG #28 to #14

* In using the products, refer to “Handling Precautions for Terminals and Connectors” described on our website (Technical documents of Product information page).
* Dimensional unit : mm
* RoHS2 Compliance
* Contact JST for details.

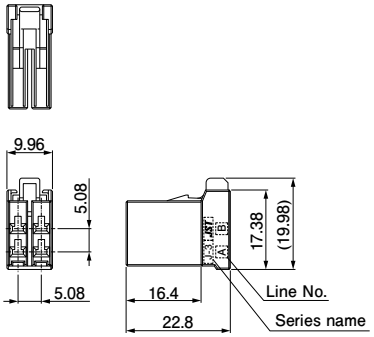
J300 SERIES COMMON TYPE/J350D

Receptacle housing

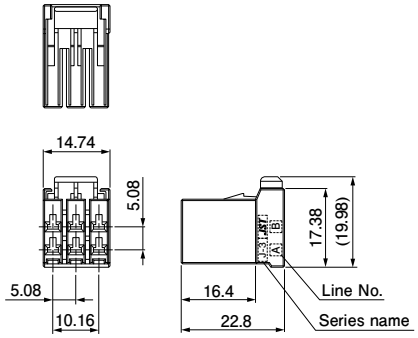
• 2 circuits



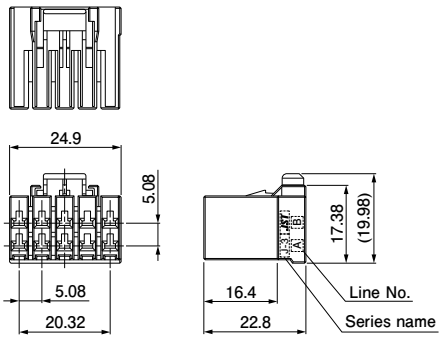
• 4 circuits



• 6 circuits



• 10 circuits

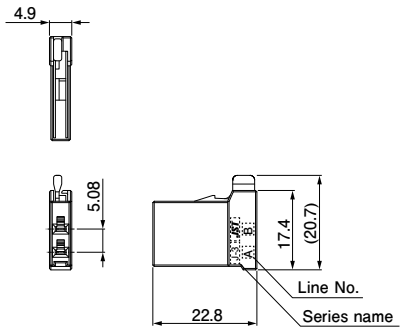


No. of circuits	Keying	Model No.	Q'ty/bag
2	—	**F35FDC-02V-K**	200
4	—	**F35FDC-04V-K**	200
6	—	**F35FDC-06V-K**	200
10	—	**F35FDC-10V-K**	100

Material and Surface finish, etc.
Glass-filled PBT, UL94V-0, black

RoHS2 compliance

Receptacle housing assembly with common connection

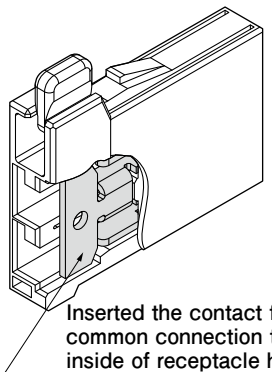
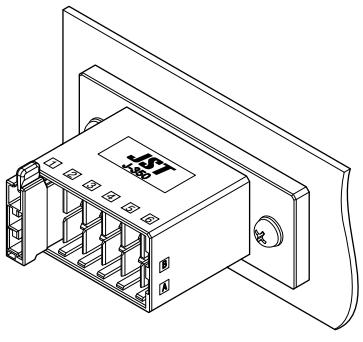
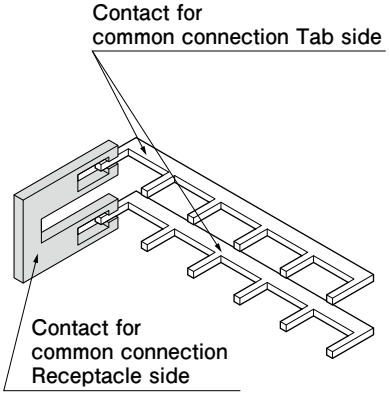


No. of circuits	Keying	Model No.	Q'ty/box
—	—	**F35FDC-00(2-A1D)V-EC**	700

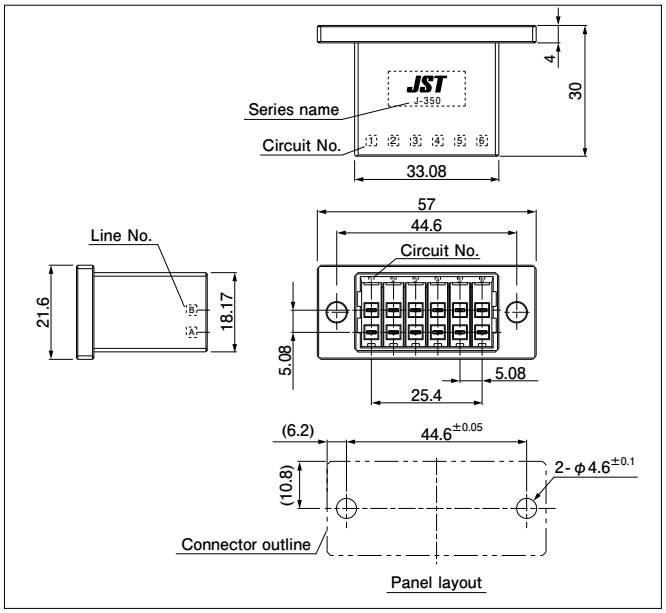
Material and Surface finish, etc.
Contact for common connection: Copper alloy, nickel-undercoated, selective gold-plated Housing: Glass-filled PBT, UL94V-0, blue

RoHS2 compliance

Note: 1. Contact JST about 0.76 μm gold-plated product and tin-plated product.
2. Unlisted in UL / TÜV.

Cross-section of receptacle housing assembly with common connection	Illustration when using	Circuit figure when using
 Inserted the contact for common connection to the inside of receptacle housing	 *When using receptacle housing assembly with common connection	 Contact for common connection Tab side Contact for common connection Receptacle side

Tab housing Assembly



No. of circuits	Keying	Model No.	Q'ty/box
12	—	P12B-F35DK-GFAR	196

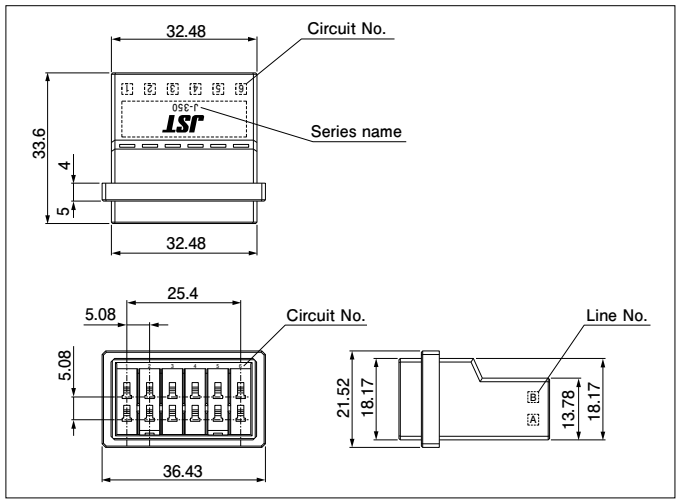
Material and Surface finish, etc.

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black

RoHS2 compliance

Note: 1. Punch holes in the panel. 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.
4. Contact JST about 0.76μm gold-plated product and tin-plated product.
5. Refer to the top page of J350D (Common type) for circuit figure.

Tab housing (Free hanging type)



No. of circuits	Keying	Model No.	Q'ty/box
12	—	F35MDF-12V-K	50

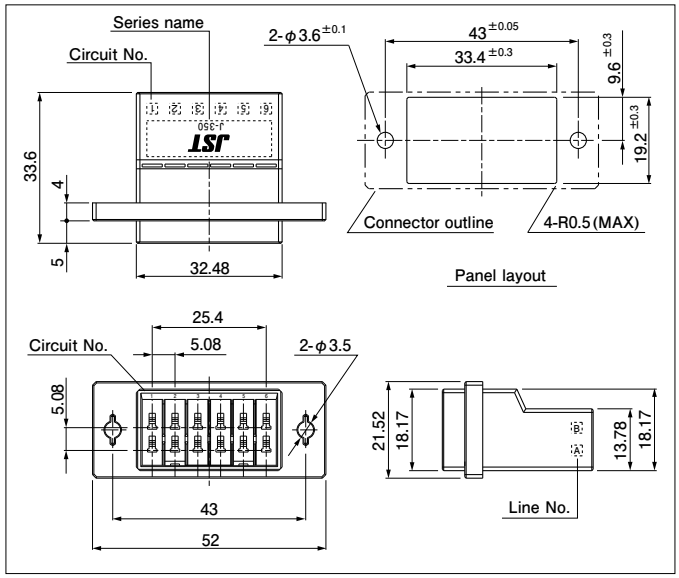
Material and Surface finish, etc.

Glass-filled PBT, UL94V-0, black

RoHS2 compliance

Note: Unlisted in TÜV.

Tab housing (Panel mounting type)



No. of circuits	Keying	Model No.	Q'ty/box
12	—	F35MDP-12V-K	41

Material and Surface finish, etc.

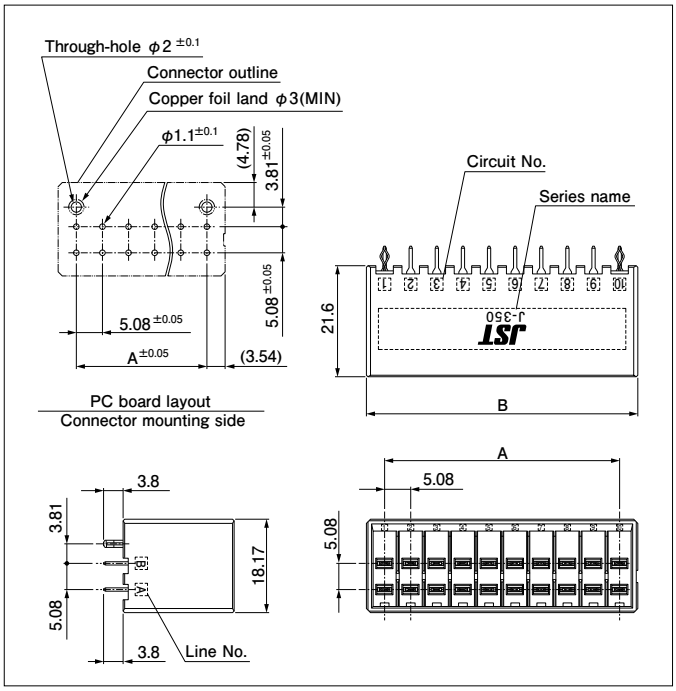
Glass-filled PBT, UL94V-0, black

RoHS2 compliance

Note: 1. Punch holes in the panel. 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.
4. Unlisted in TÜV.

J300 SERIES COMMON TYPE/J350D

Header (Top entry type)



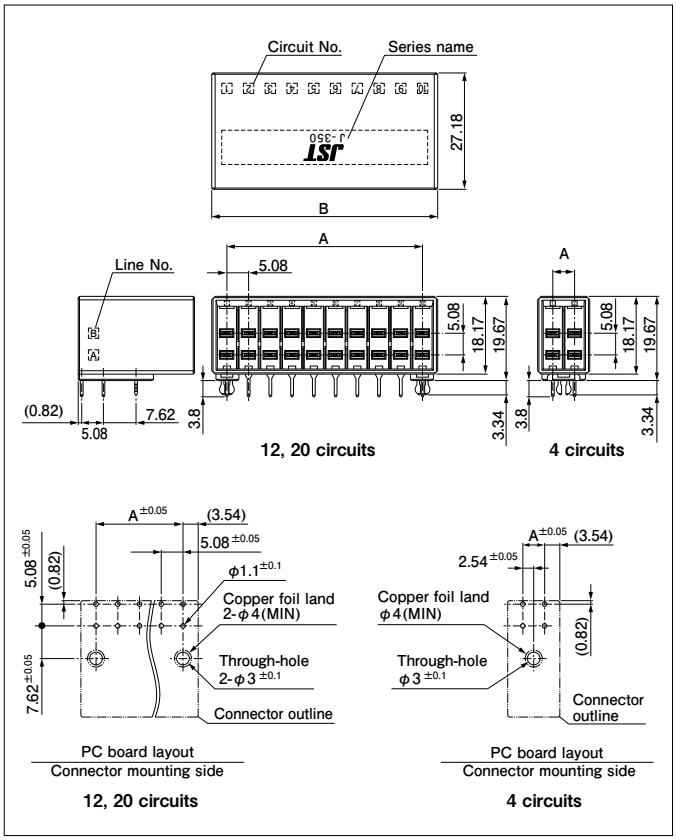
No. of circuits	Keying	Model No.	Dimensions (mm)		Q'ty/box
			A	B	
12	—	BC12B-F35DK-GGR	25.40	32.48	56
20	—	BC20B-F35DK-GGR	45.72	52.80	32

Material and Surface finish, etc.

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcement: Copper alloy, nickel-undercoated, selective gold-plated

RoHS2 compliance This product displays (LF)(AU) on a label.
Note: Contact JST about 0.76μm gold-plated product and tin-plated product.

Header (Side entry type)



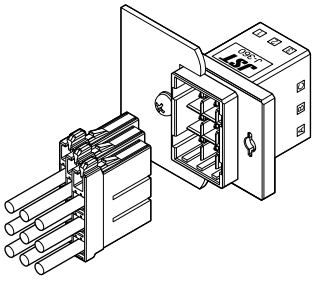
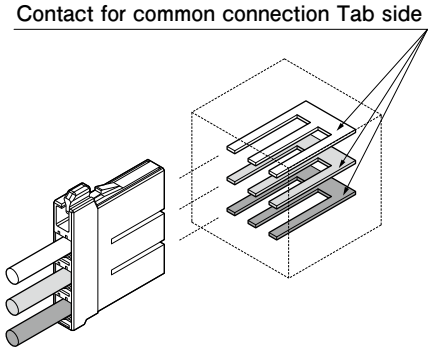
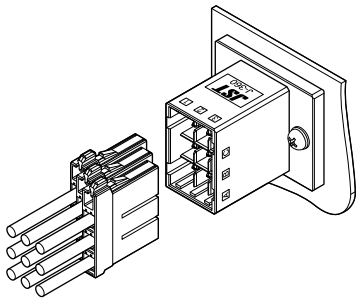
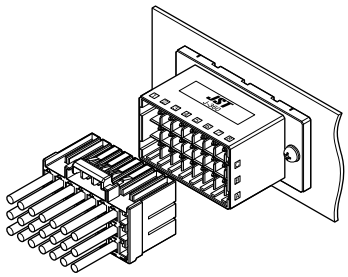
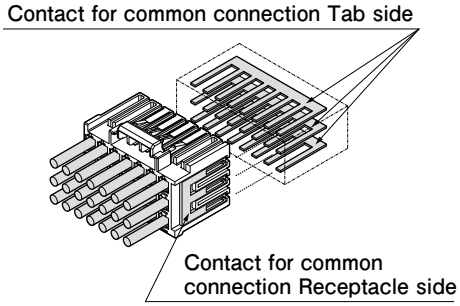
No. of circuits	Keying	Model No.	Dimensions (mm)		Q'ty/box
			A	B	
4	—	SC04B-F35DK-GGR	5.08	12.16	152
12	—	SC12B-F35DK-GGR	25.40	32.48	56
20	—	SC20B-F35DK-GGR	45.72	52.80	32

Material and Surface finish, etc.

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcement: Copper alloy, nickel-undercoated, selective gold-plated

RoHS2 compliance This product displays (LF)(AU) on a label.
Note: Contact JST about 0.76μm gold-plated product and tin-plated product.

Triple-row Common type (J360T)

Receptacle side	Tab side	Appearance	Circuit figure
Normal Receptacle housing	Contact for common connection Tab side (Panel mounting type)		
	Contact for common connection Tab side (Direct mounting type)		
Receptacle housing assembly with common connection	Contact for common connection Tab side (Direct mounting type)		

・Rationalization of wiring is realized by the common connection inside the connector

Specifications

・Current rating: AC/DC

Current unit: A

	Wire size (AWG)			
	#14	#16	#18	#20
Receptacle housing (Total input current on single-row)	12.0	10.5	8.5	6.5
Receptacle housing assembly with common connection (Total input current on all circuits)	15.0	13.5	11.5	9.5

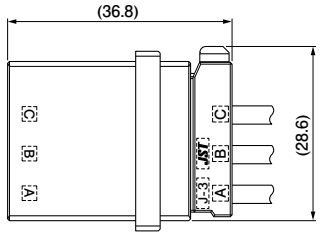
・Voltage rating: 600 V AC/DC
・Temperature range: −55℃ to +105℃
(including temperature rise in applying electrical current)
・Contact resistance: Initial value/ 10 mΩ max.
After environmental tests/ 20 mΩ max.
・Insulation resistance: 1,000 MΩ min.
(When using receptacle housing)
・Withstanding voltage: 2,200 VAC/minute
(When using receptacle housing)
・Applicable wire: AWG #28 to #14

* Please refer to the "Handling Precautions for Terminals and Connectors" on our website (listed in the "Technical Documents" column on the Product Information page) before use.
* Dimensional unit : mm
* RoHS2 Compliance
* Contact JST for details.

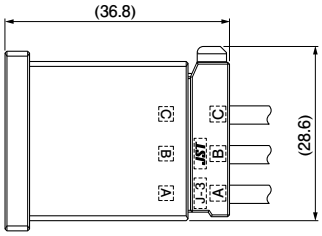
J300 SERIES COMMON TYPE/J360T

Assembly layout

Panel mounting type

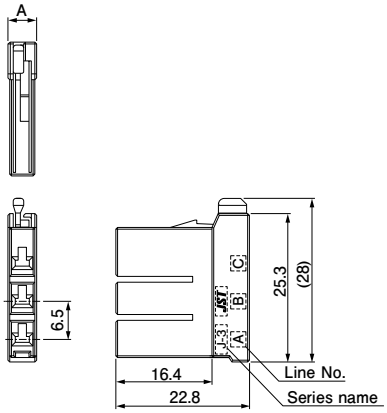


Direct mounting type



*When mating with receptacle housing (3-circuit)

Receptacle housing



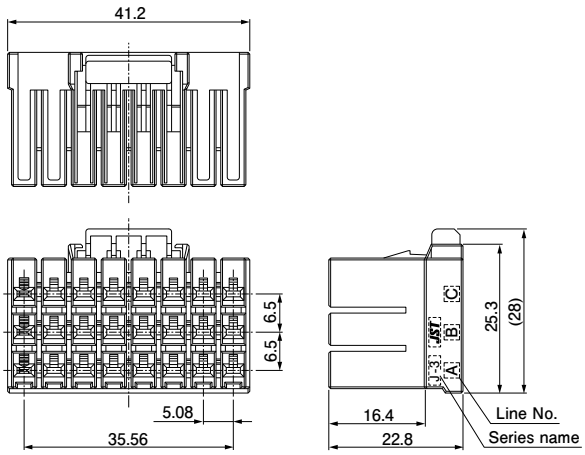
No. of circuits	Keying	Model No.	Dimensions (mm)	Q'ty/ bag
			A	
3	–	**F36FTC-03V-K**	4.9	200
9	–	**F36FTC-09V-K**	15.0	–
18	–	**F36FTC-18V-K**	30.3	–
24	–	**F36FTC-24V-K**	41.2	60

Material and Surface finish, etc.
Glass-filled PBT, UL94V-0, black

RoHS2 compliance

Note: 9, 18, and 24-circuit products are not approved by UL / TÜV standards.

Receptacle housing assembly with common connection



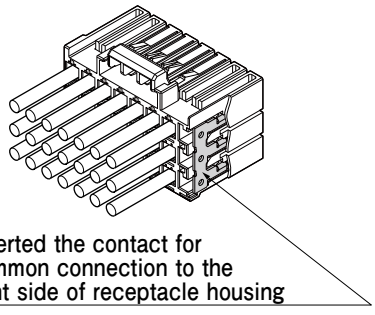
No. of circuits	Model No.	Q'ty/bag
21	**F36FTC-21(24-C8T)V-KC**	60

Material and Surface finish, etc.
Contact for common connection: Copper alloy, nickel-undercoated, selective gold-plated Housing: Glass-filled PBT, UL94V-0, black

RoHS2 compliance

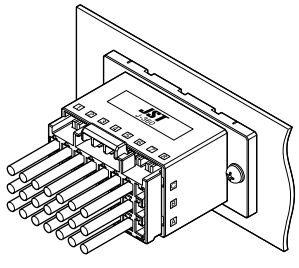
Note: 1. Contact JST about 0.76 μm gold-plated product.
2. Unlisted in UL / TÜV.

Cross-section of receptacle housing assembly with common connection



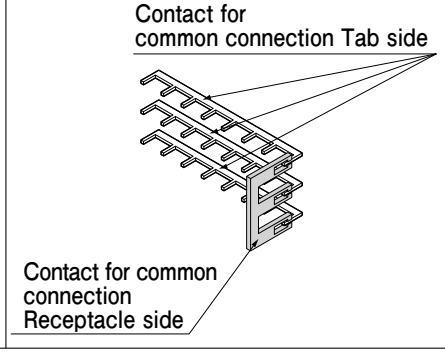
Inserted the contact for common connection to the right side of receptacle housing

Illustration when using



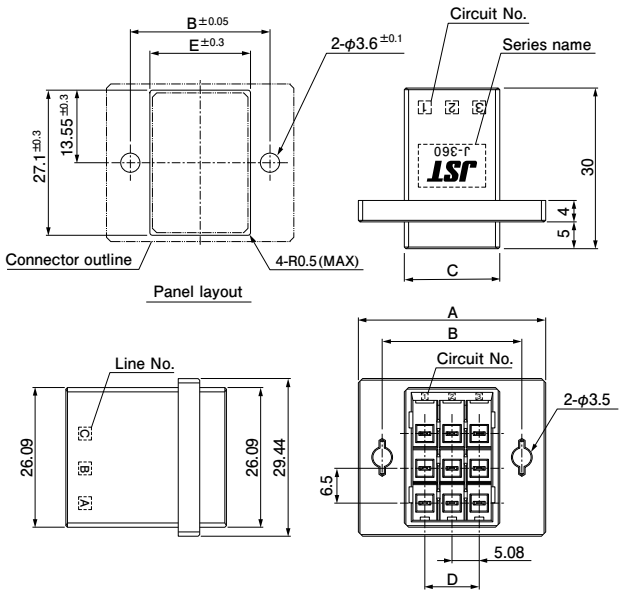
* When mating with receptacle housing assemby with common connection

Circuit figure wten using



Common tab housing Assembly

● **Panel mounting type**



No. of circuits	Keying	Model No.	Dimensions (mm)					Q'ty /box
			A	B	C	D	E	
9	—	P09B-F36TK-GFR	35.0	26.1	17.8	10.16	18.8	364
18	—	P18B-F36TK-GFR	50.2	41.3	33.1	25.40	34.1	224

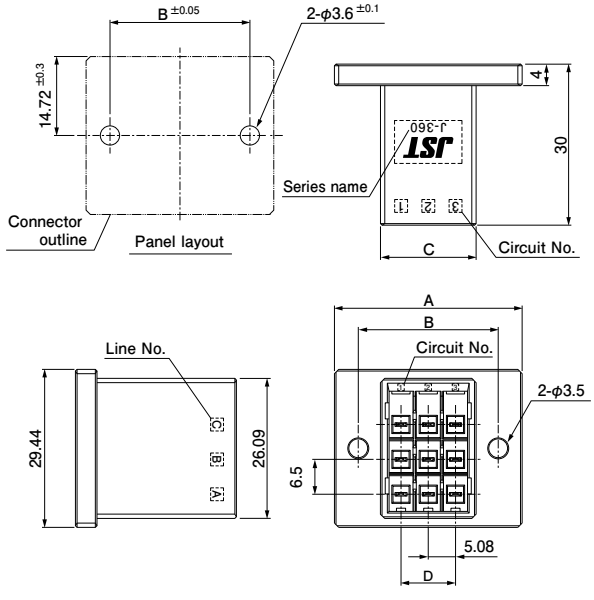
Material and Surface finish, etc.

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black

RoHS2 compliance

Note: 1. Punch holes in the panel. 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.
4. Contact JST about 0.76 μm gold-plated product and tin-plated product.
5. Refer to the top page of J360T (Common type) for circuit figure.

• **Direct mounting type**



No. of circuits	Keying	Model No.	Dimensions (mm)				Q'ty /box
			A	B	C	D	
9	—	P09B-F36TK-GFAR	35.0	26.1	17.8	10.16	364
18	—	P18B-F36TK-GFAR	50.2	41.3	33.1	25.40	224
24	—	P24B-F36TK-GFAR	60.4	51.5	43.2	35.56	168

Material and Surface finish, etc.

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black

RoHS2 compliance

Note: 1. Punch holes in the panel. 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.
4. Contact JST about 0.76 μm gold-plated product and tin-plated product.
5. The directions such as series names of 24-circuit product are different from 9 and 18-circuit products.
6. 24-circuit product is not approved by UL standard.
7. Refer to the top page of J360T (Common type) for circuit figure.

Model number allocation

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, GFA...Nickel-undercoated, 0.38 μm selective gold-plated (A type), GI...Nickel-undercoated, 0.76 μm selective gold-plated, GIA...Nickel-undercoated, 0.76 μm selective gold-plated (A type), 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: 002...AWG #28 ～#24, 01...AWG #24～#20, 41...AWG #20 ～#16, 71...AWG #16～#14
- Surface finish: GF...Nickel-undercoated, 0.3 μm selective gold-plated, GI...Nickel-undercoated, 0.76 μm selective gold-plated, T...Tin-plated (reflow treatment)
- Material: M...Copper alloy
- Terminal size
- Sub model No.

Receptacle housing

F31 F S S - 03 V - K X

- Series name
- Type of connector: F...Receptacle housing, FR...Receptacle housing Reverse type
- Rows: S...Single-row, D....Dual-row with 5.08 mm line pitch, M...Double-row with 7.62 mm line pitch, T...Triple-row, F....Quadruple-row
- Mounting arrangement: S...Side locking, C...Center locking, PA...Panel mounting type
- No. of circuits: 1～ 6, 8 ～10, 12, 16, 18, 20, 24, 30, 40
- Flammability: V...UL94V-0
- Color indication: K...Black, S...White, E...Blue, M...Green
- Keying: X...X-Keying, Y...Y-Keying, Z...Z-Keying, W...W-Keying, XX...XX-Keying, YY...YY-Keying, XY...XY-Keying, Blank...Without Keying No., E...Space (2 spaces) for Keying block

Tab housing

F31 M S F - 03 V - K X

- Series name
- Type of connector: M...Tab housing, MR...Tab housing Reverse type
- Rows: S...Single-row, D...Dual-row, T...Triple-row, F...Quadruple-row
- Mounting arrangement: F...Free hanging, P...Panel mounting, S...Side locking, PL...Panel mounting Housing lock
- No. of circuits: 1 ～ 6, 8, 10, 12, 16, 20, 30, 40
- Flammability: V...UL94V-0
- Color indication: K...Black, S...White, E...Blue, M...Green
- Keying: X...X-Keying, Y...Y-Keying, Z...Z-Keying, W...W-Keying, XX...XX-Keying, YY...YY-Keying, XY...XY-Keying, Blank...Without Keying No.

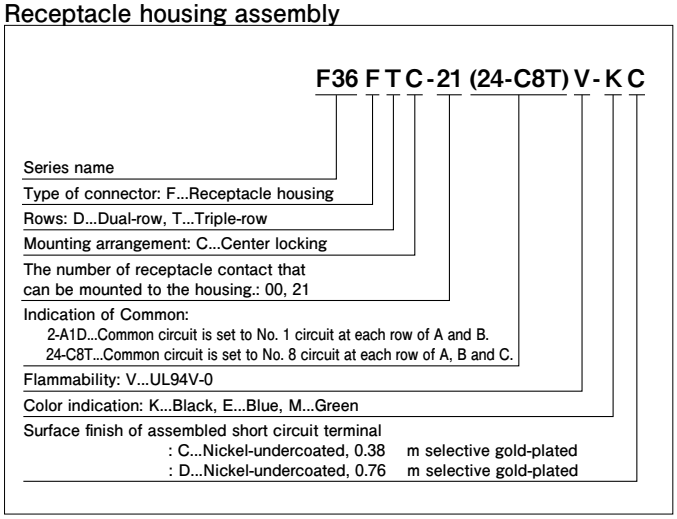
Header

B 05 B - F31 S K - GG X R

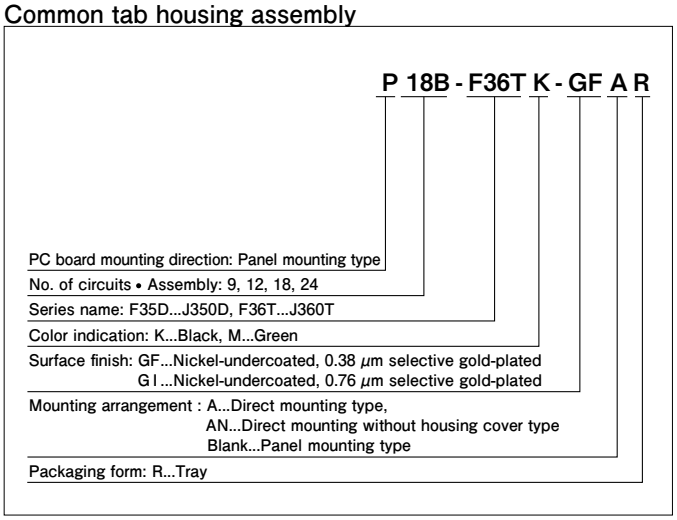
- PC board mounting direction: B...Top entry type, S...Side entry type, BC...Top & center locking, SR...Side reverse, SC...Side & center locking
- No. of circuits: 2 ～ 6, 8 ～10, 12, 16, 20, 40
- Product name: Header
- Series name
- Rows: S...Single-row, D...Dual-row with 5.08 mm line pitch, M...Dual-row with 7.62 mm line pitch, T...Triple-row, F...Quadruple-row
- 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, E...Space (2 spaces) for Keying block, XA...XXX-Keying, XB...XXY-Keying, XC...XYX-Keying, XD...YYX-Keying, Blank...Without Keying No.
- Packaging form: R...Tray, M...Magazine stick

Model number allocation

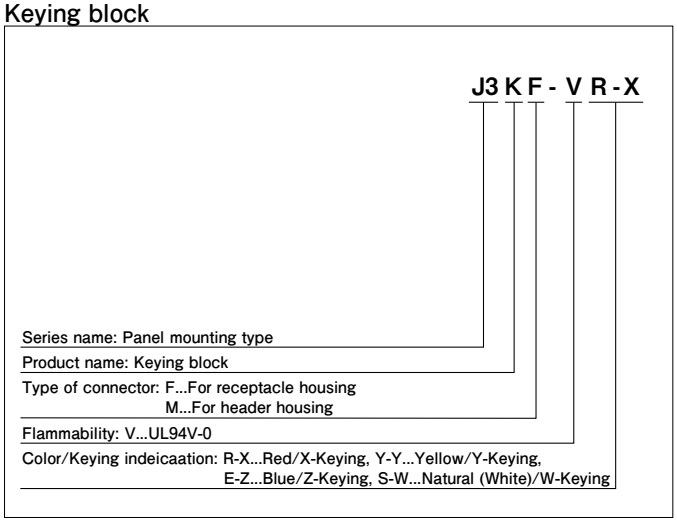
Receptacle housing assembly

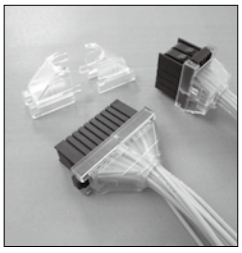


Common tab housing assembly

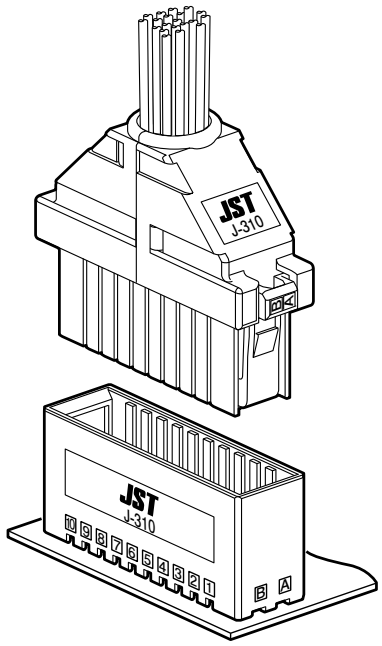


Keying block





JFA CONNECTOR J300 SERIES PROTECTOR

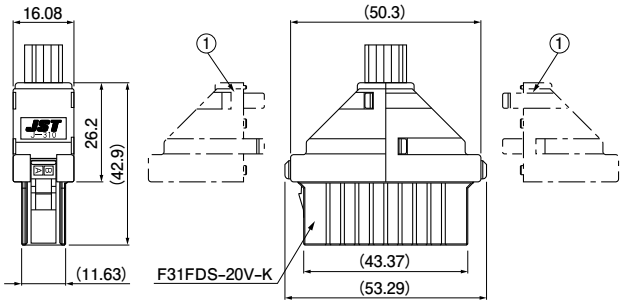


When applying a current to the connector, the protector prevents foreign substances being inserted into mating part from the wiring side. However it has no function of holding the wire securely.

Note: Protector is unlisted in UL.

J300 Series

・J310D series for 20 circuits

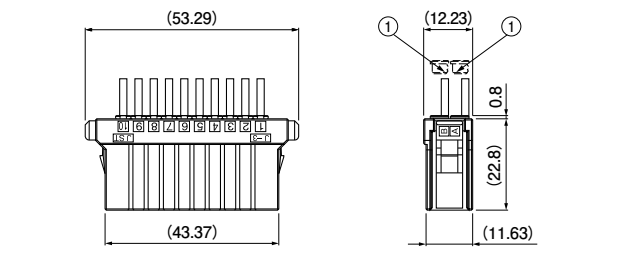


No.	Model No.	Color	Q'ty/box
1	F31PFD-20VK	Black	112
	F31PFD-20SC	Transparent	112

Material and Surface finish, etc.
Black: Glass-filled PBT Transparent: Polycarbonate

RoHS2 compliance
Note: Two protectors of the same color are used.

・J310D series / Embedding-type prottector for 8, 10 circuits

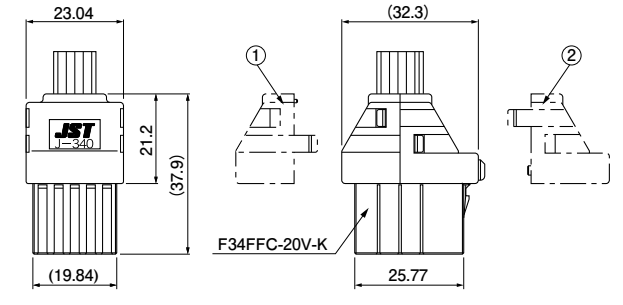


No.	Model No.	Color	Q'ty/box
1	F31PFS-10KU	Black	1,000

Material and Surface finish, etc.
Glass-filled PBT

RoHS2 compliance
Note: Cut the protector according to the number of circuits before use.

・J340F series for 20 circuits



No.	Model No.	Color	Q'ty/box
1	F34PFF-20VKA	Black	80
	F34PFF-20SCA	Transparent	80
2	F34PFF-20VKB	Black	80
	F34PFF-20SCB	Transparent	80

Material and Surface finish, etc.
Black: Glass-filled PBT Transparent: Polycarbonate

RoHS2 compliance
Note: Use the same color for protector 1 and 2.