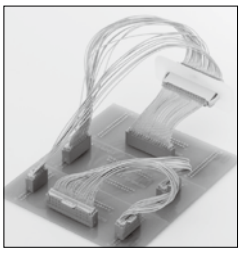
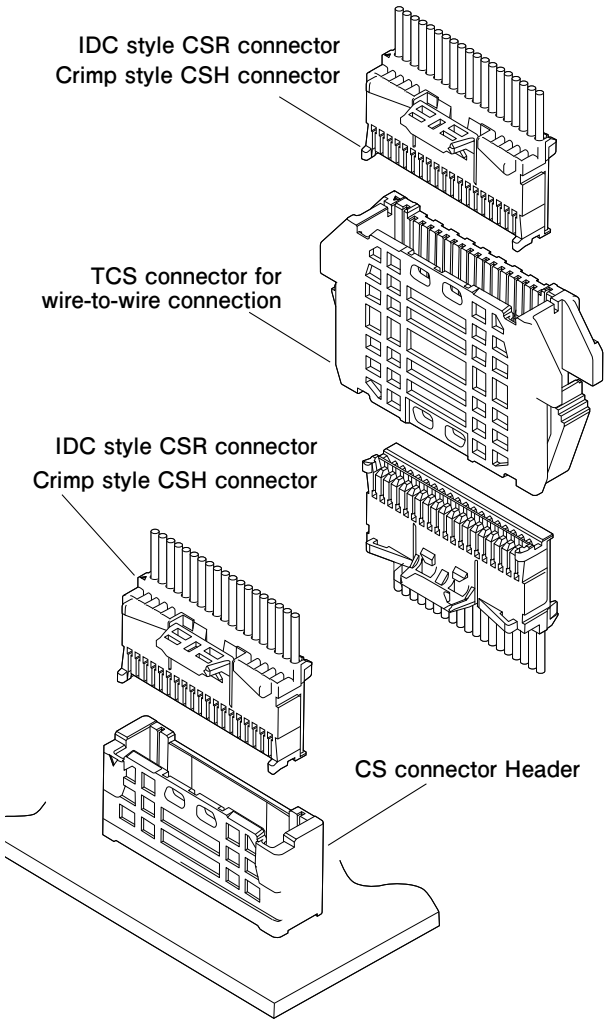


CS FAMILY SERIES/CSR・CSH・CS・TCS CONNECTORS

1.0 mm pitch/ Wire-to-Board connectors/IDC, Crimp, and Mating styles



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

CS connector

- Secure lock mechanism
- Realization of multi-circuits by low insertion force
- Countermeasure for unexpected prying insertion

CSH connector

- Housing lances
- Interchangeability
- Realized current rating of 1.8 A with AWG #26

TCS connector

- Secure lock mechanism
- Countermeasure for unexpected prying insertion

■ Specifications

Item \ Serise	CSR / CS connectors	CSH / CS connectors	TCS connector
Current rating	1.8 A (AWG #27)	1.8 A (AWG #26)	
Voltage rating	50 V AC/DC		
Temperature rise	-25℃ to +85℃ (including temperature rise)		
Contact resistance	Initial value / 15 mΩ max. After environmental tests / 30 mΩ max.		Initial value / 25 mΩ max. After environmental tests / 50 mΩ max.
Insulation resistance	500 MΩ min.		
Withstanding voltage	500 VAC/minute		
Applicable wire range	UL11079, UL3619, UL3855, UL11030 AWG#27・#28 Conductor / 7-strands, tin-coated annealed copper Insulation O.D. / φ0.65 to φ0.73 (Contact JST for details.)	AWG #30 to AWG #26 Insulation O.D. / φ0.6 to φ0.8	
Applicable PC board thickness	1.6 mm	1.6 mm	—
Applicable panel thickness	—	—	0.8 mm to 2 mm

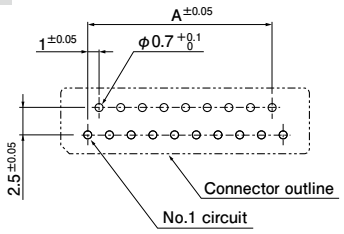
* Please refer to the "Handling Precautions for Terminals and Connectors" on our website (listed in the “Technical Documents” column on the Product Information page) before use.
* Dimensional unit: mm
* RoHS2 Compliance
* Contact JST for details.

■ Standard

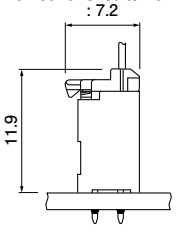
For information on overseas standard registrations, please refer to the "List of Registered Overseas Standards" on our website (listed in the “Technical Documents” column on the Product Information page).
※ Specifications registered to overseas standards may differ from the general specifications listed above.

PC board layout and Assembly layout

CS connector

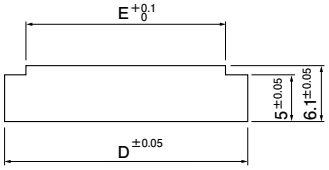


Odd number of circuits from 3 to 11.
: 6.7
Odd number of circuits from 13 to 31.
: 7.2



Note: 1. The above figure is the figure viewed from the connector mounting side.
2. Tolerance for the PCB hole pitch shall be ± 0.05 and shall not accumulate.
3. Hole dimensions differ according to the type of PC board and piercing method. The above dimensions are reference values. Please contact JST for details.

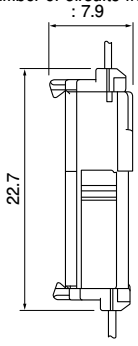
TCS connector



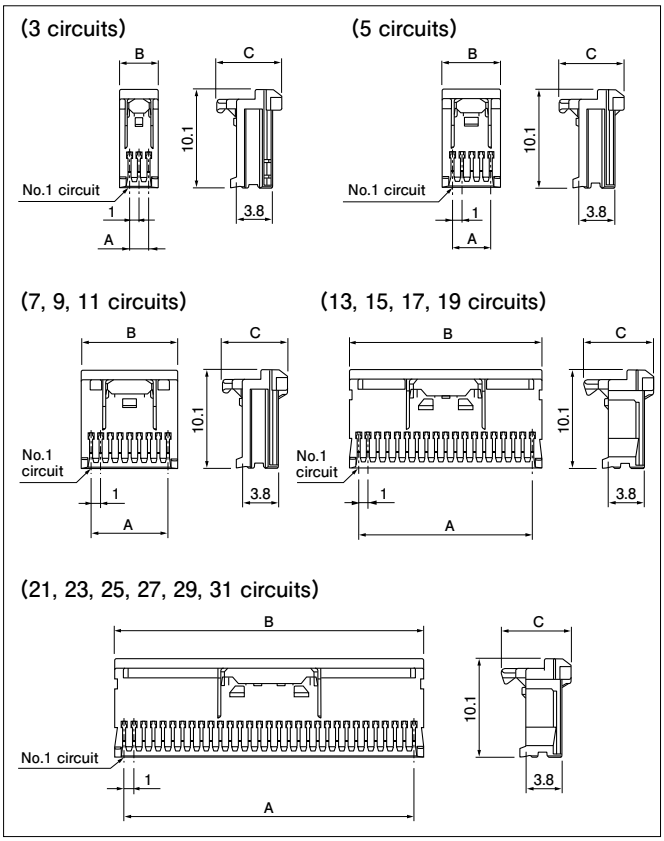
Panel hole dimensions
Applicable panel thickness: t=0.8 to 2 mm)

Note) Dimensions D and E: See TCS connector (Unit for wire-to-wire connection)

Odd number of circuits from 3 to 11.
: 7.4
Odd number of circuits from 13 to 31.
: 7.9



CSR connector Socket



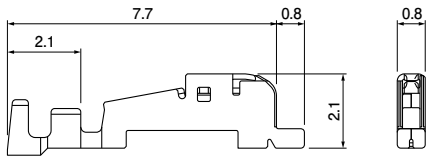
No. of circuits	Model No.	Dimensions (mm)			Q'ty/ box
		A	B	C	
3	**03CSR-8PK**	2.0	4.0	6.7	13,500
5	**05CSR-8PK**	4.0	6.0		9,000
7	**07CSR-8PK**	6.0	8.0		6,660
9	**09CSR-8PK**	8.0	10.0		5,400
11	**11CSR-8PK**	10.0	12.0		4,500
13	**13CSR-8PK**	12.0	14.0	7.2	3,780
15	**15CSR-8PK**	14.0	16.0		3,240
17	**17CSR-8PK**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

Material and Surface finish, etc.
Contact: Copper alloy, tin-plated Housing: Thermoplastic resin, pink

RoHS2 compliance

※ For flame retardant grade of resin material used, please refer to the "List of Registered Overseas Standards" on our website (listed in the "Technical Documents" column on the Product Information page).

CSH connector Socket contact



Model No.	Applicable wire range		Insulation O.D. (mm)	Q'ty/ reel
	mm²	AWG#		
SCSH-002T-P0.2N	0.05 to 0.13	30 to 26	0.6 to 0.8	12,000

Material and Surface finish, etc.
Copper alloy, tin-plated

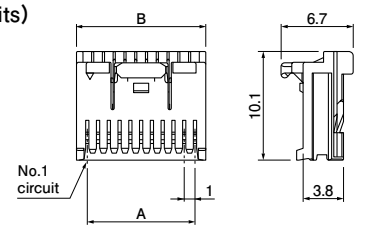
RoHS2 compliance

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

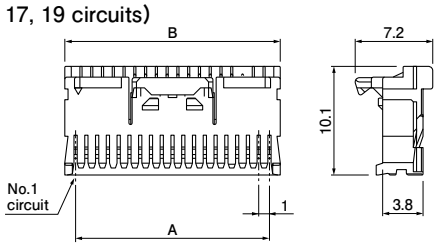
Note: Contact JST for fully automatic crimping applicator.

CSH connector Socket housing

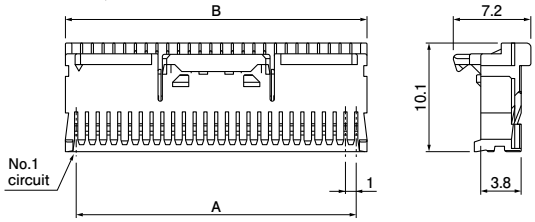
(11 circuits)



(13, 15, 17, 19 circuits)



(25, 27 circuits)



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

Material and Surface finish, etc.

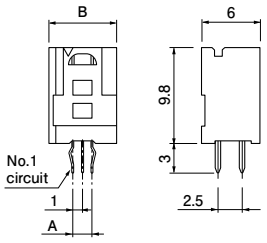
Housing: Thermoplastic resin, pink

RoHS2 compliance

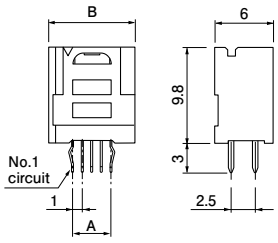
※ For flame retardant grade of resin material used, please refer to the "List of Registered Overseas Standards" on our website (listed in the "Technical Documents" column on the Product Information page).

CS connector Header (DIP type)

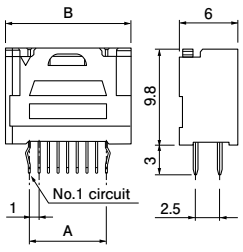
(3 circuits)



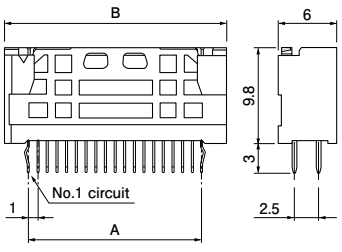
(5 circuits)



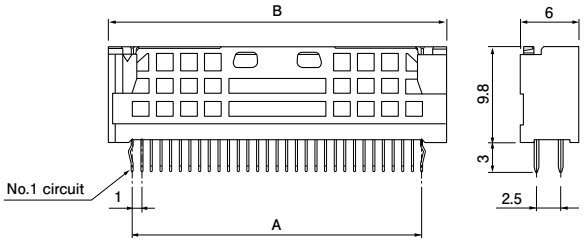
(7, 9, 11 circuits)



(13, 15, 17, 19 circuits)



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



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

Material and Surface finish, etc.

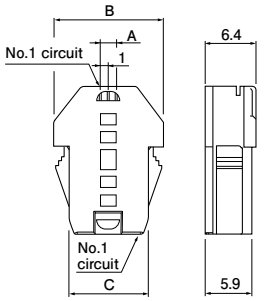
Housing: Thermoplastic resin, red
Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

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

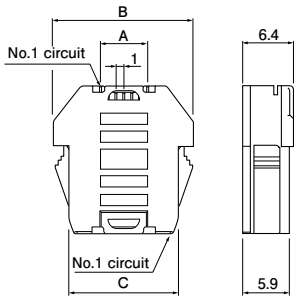
※ For flame retardant grade of resin material used, please refer to the "List of Registered Overseas Standards" on our website (listed in the "Technical Documents" column on the Product Information page).

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

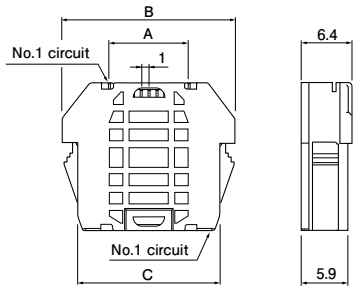
(3 circuits)



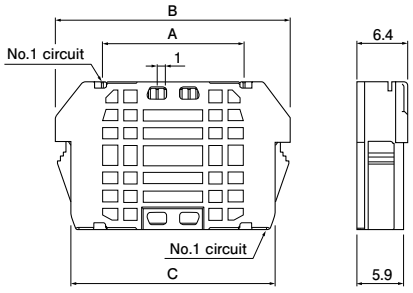
(5, 7 circuits)



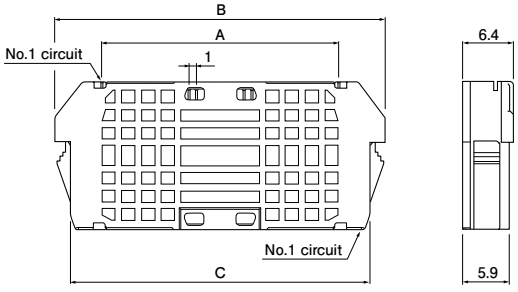
(9, 11 circuits)



(13, 15, 17, 19 circuits)



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



No. of circuits	Model No.	Dimensions (mm)						Q'ty/ box
		A	B	C	D		E	
					t0.8≤D≤t1.2	t1.2<D≤t2.0		
3	**BU03P-TCS-LE**	2.0	13.8	10.0	10.7	11.0	6.2	300
5	**BU05P-TCS-LE**	4.0	15.8	12.0	12.7	13.0	8.2	250
7	**BU07P-TCS-LE**	6.0	17.8	14.0	14.7	15.0	10.2	250
9	**BU09P-TCS-LE**	8.0	19.8	16.0	16.7	17.0	12.2	250
11	**BU11P-TCS-LE**	10.0	21.8	18.0	18.7	19.0	14.2	200
13	**BU13P-TCS-LE**	12.0	23.8	20.0	20.7	21.0	16.2	200
15	**BU15P-TCS-LE**	14.0	25.8	22.0	22.7	23.0	18.2	150
17	**BU17P-TCS-LE**	16.0	27.8	24.0	24.7	25.0	20.2	150
19	**BU19P-TCS-LE**	18.0	29.8	26.0	26.7	27.0	22.2	150
21	**BU21P-TCS-LE**	20.0	31.8	28.0	28.7	29.0	24.2	100
23	**BU23P-TCS-LE**	22.0	33.8	30.0	30.7	31.0	26.2	100
25	**BU25P-TCS-LE**	24.0	35.8	32.0	32.7	33.0	28.2	100
27	**BU27P-TCS-LE**	26.0	37.8	34.0	34.7	35.0	30.2	100
29	**BU29P-TCS-LE**	28.0	39.8	36.0	36.7	37.0	32.2	100
31	**BU31P-TCS-LE**	30.0	41.8	38.0	38.7	39.0	34.2	100

Material and Surface finish, etc.

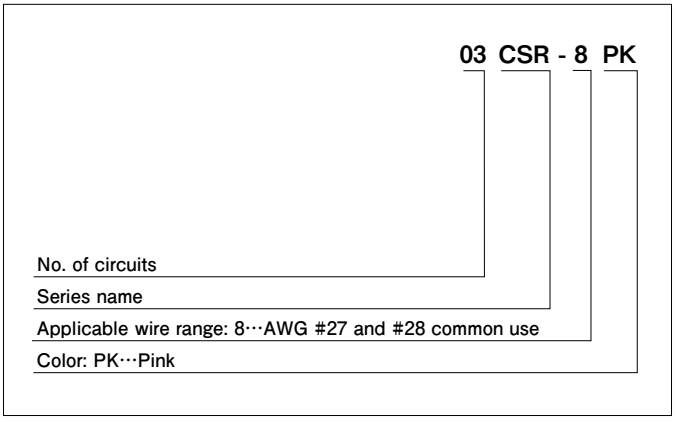
Housing: Thermoplastic resin, light blue
Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

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

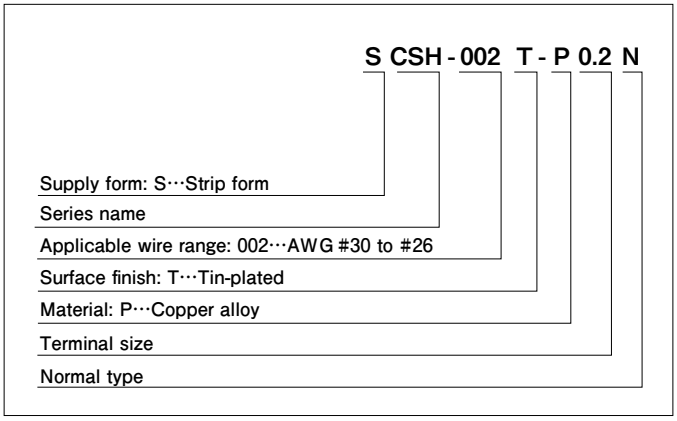
※ For flame retardant grade of resin material used, please refer to the "List of Registered Overseas Standards" on our website (listed in the "Technical Documents" column on the Product Information page).

Model number allocation

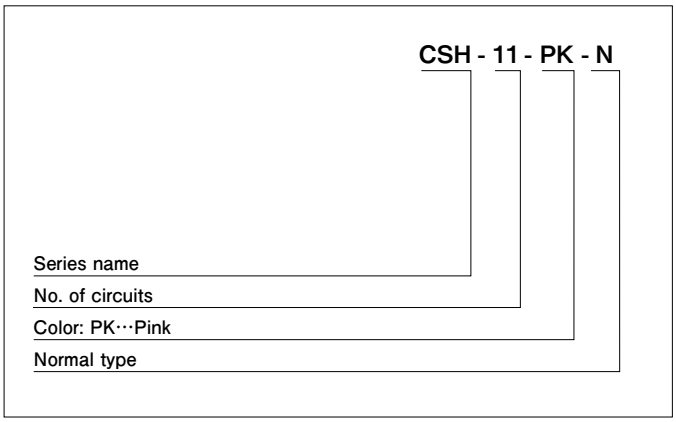
CSR connector Socket



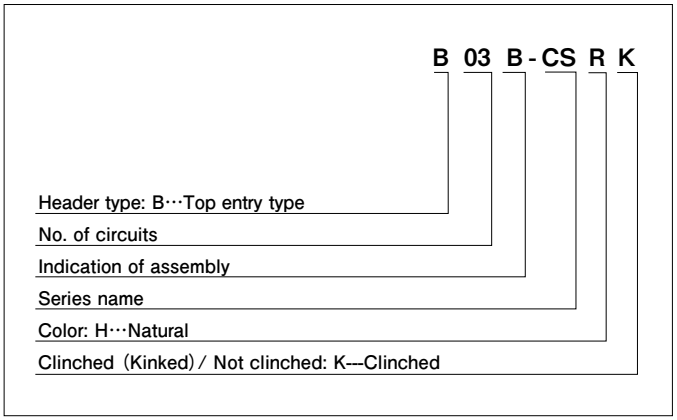
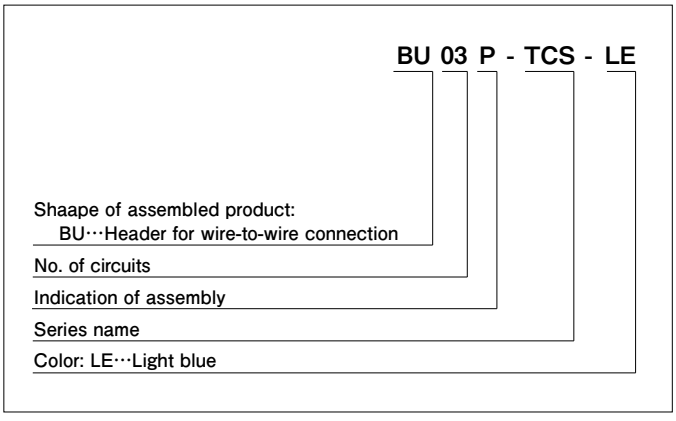
CSH connector Socket contact



CSH connector Socket housing



CS connector Header (DIP type)



TCS connector