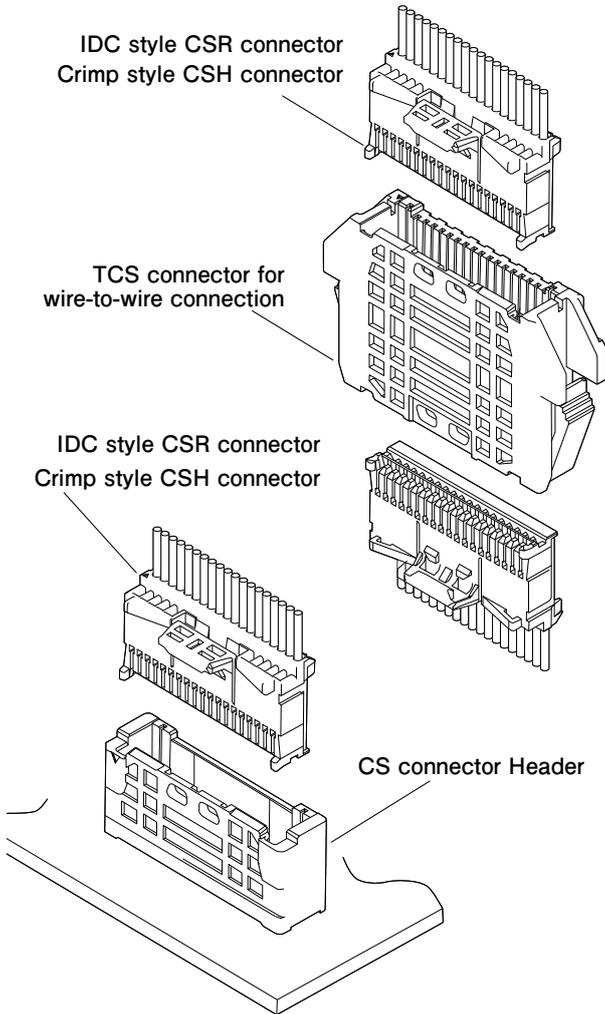


CS FAMILY SERIES / CSR · CSH · CS · TCS CONNECTORS

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	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°C to +85°C (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. / φ 0.65 to φ 0.73 (Contact JST for details.)	AWG #30 to AWG #26 Insulation O.D. / φ 0.6 to φ 0.8	
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.

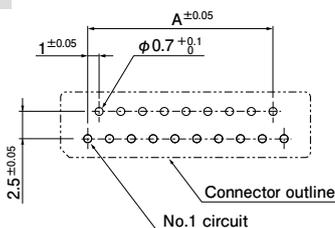
Standard

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).

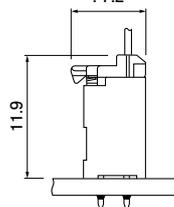
※ Specifications registered to overseas standards may differ from the general specifications listed above.

PC board layout and Assembly layout

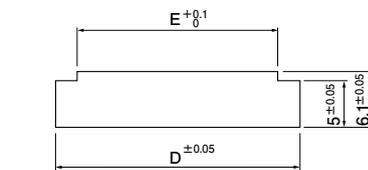
CS connector



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



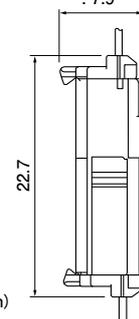
TCS connector



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)

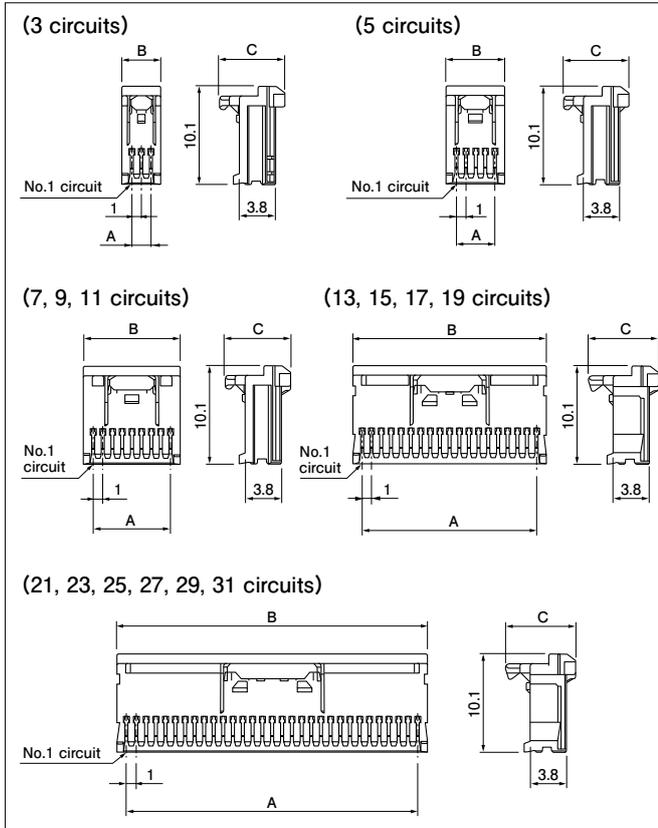
Odd number of circuits from 3 to 11.
: 7.4
Odd number of circuits from 13 to 31.
: 7.9



- 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.

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

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

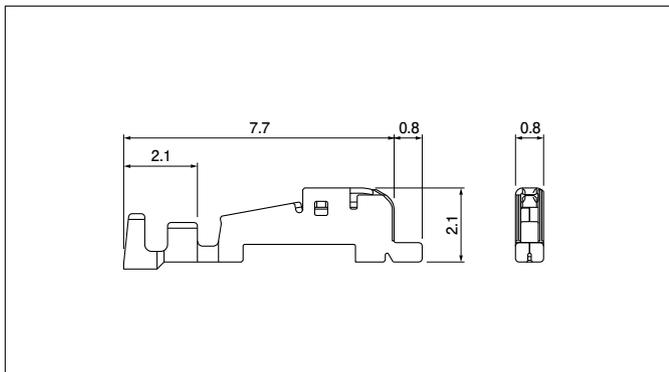
Material and Surface finish, etc.

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
	mm ²	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

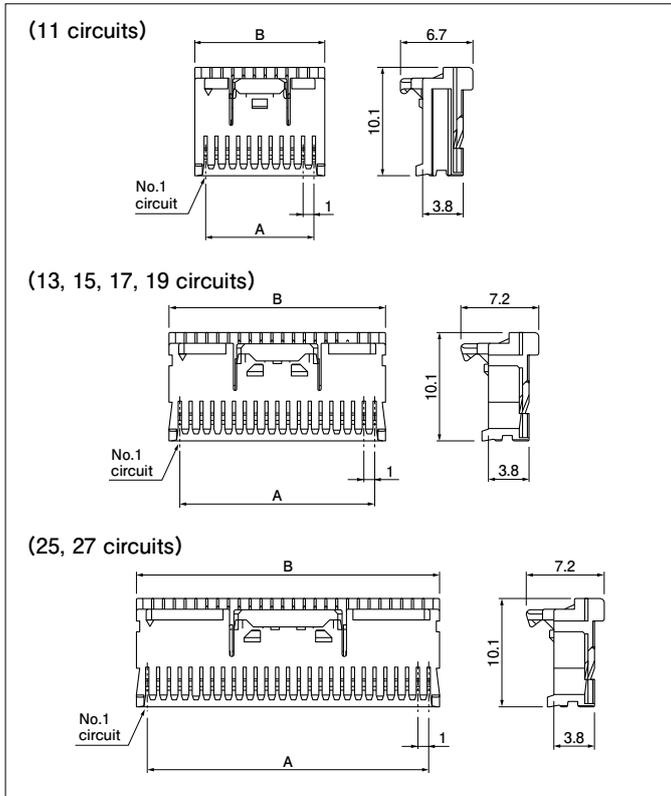
RoHS2 compliance

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.

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

CSH connector Socket housing



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

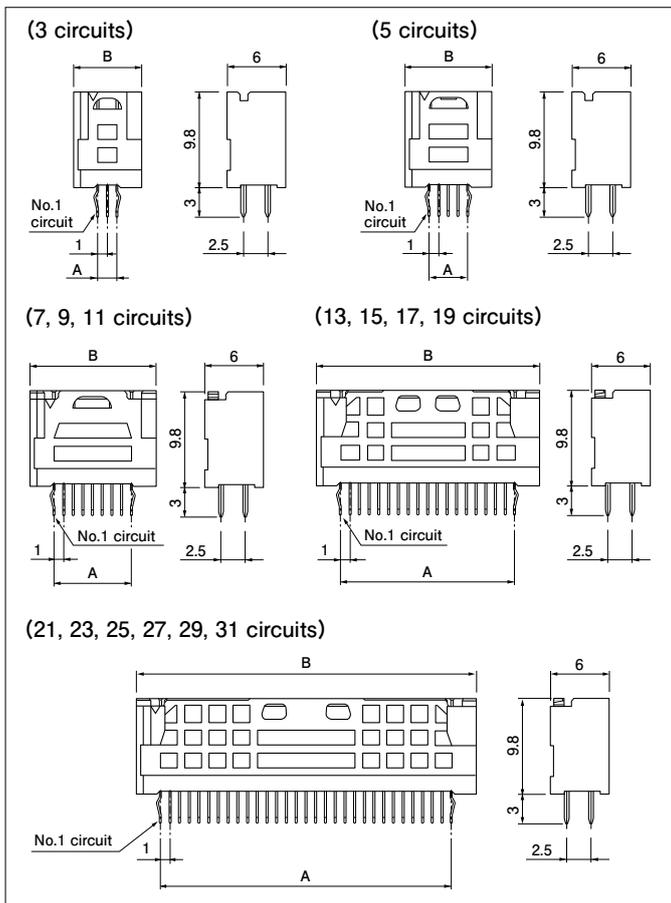
Material and Surface finish, etc.

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)



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

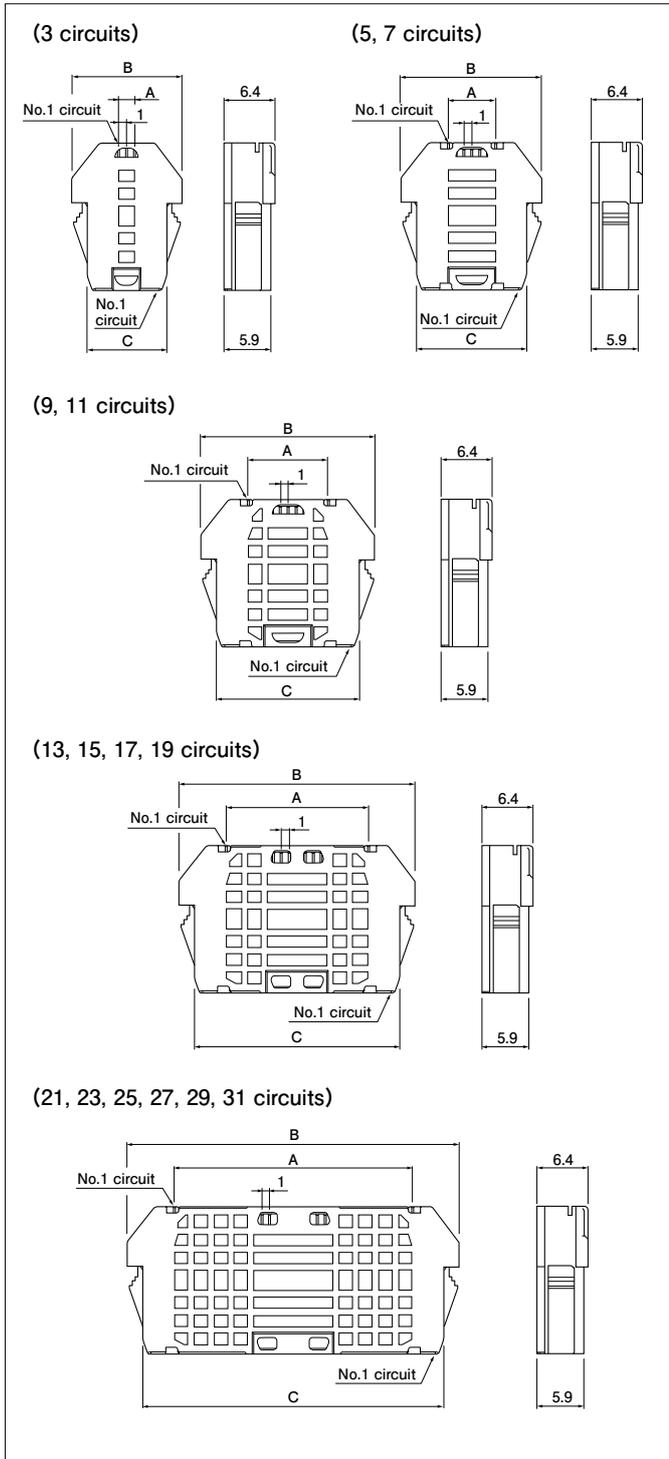
Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

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).

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

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



No. of circuits	Model No.	Dimensions (mm)					Q'ty/box	
		A	B	C	D			E
					$10.8 < D \leq 11.2$	$11.2 < D \leq 12.0$		
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)

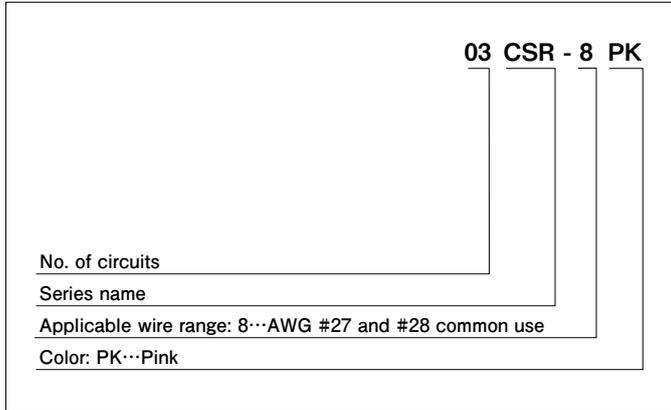
RoHS2 compliance This product displays (LF) (SN) on a label.

※ 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).

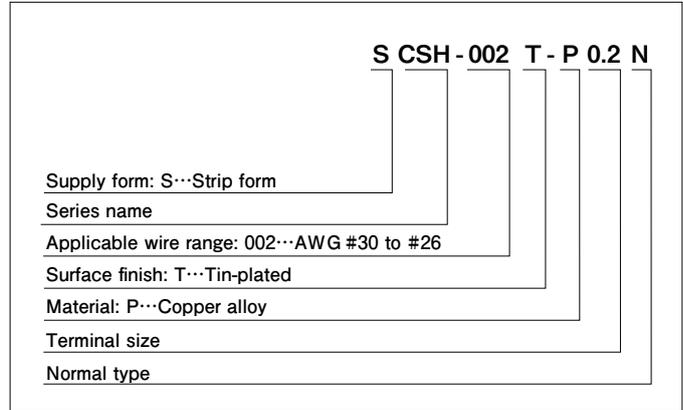
CS FAMILY SERIES / CSR · CSH · CS · TCS CONNECTORS

Model number allocation

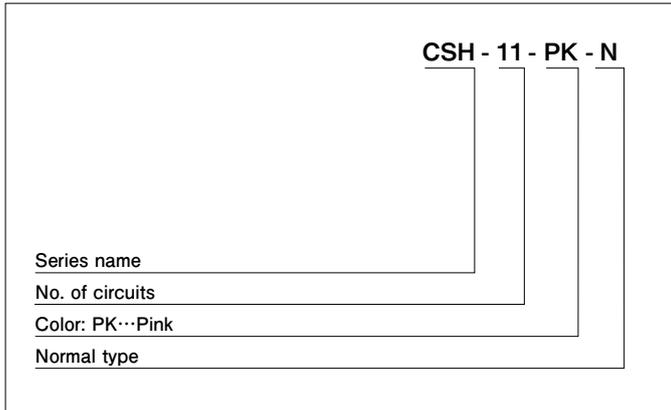
CSR connector Socket



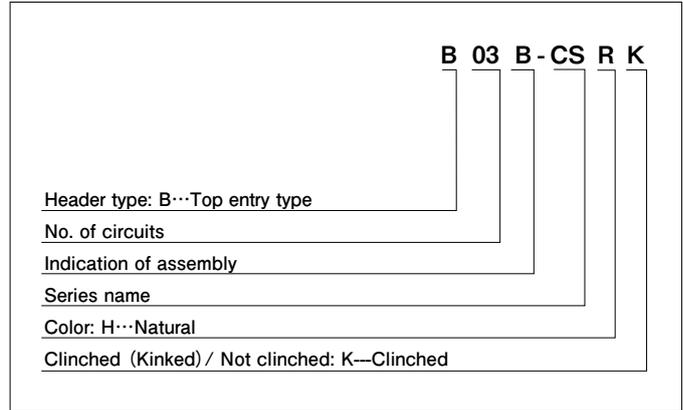
CSH connector Socket contact



CSH connector Socket housing



CS connector Header (DIP type)



TCS connector

