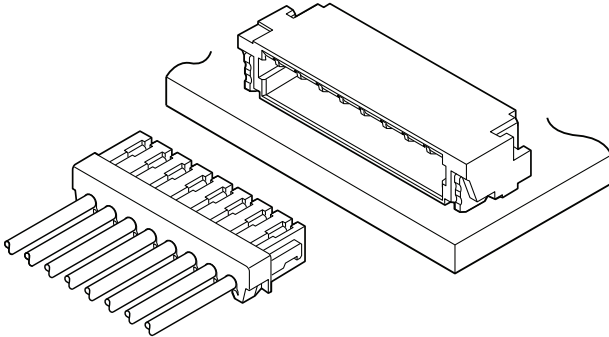


SUR CONNECTOR

0.8 mm pitch/Wire-to-Board connectors/IDC style and Mating style



A versatile 0.8 mm pitch insulation displacement connector designed for compact, space-saving wire-to-board applications.

- **Compact and space-saving**
Board mounting height (H) and depth (D) are H3.9 mm x D2.2 mm for the top entry type and H1.75 mm x D3.9 mm for the side entry type, dimensions of which are perfectly suitable for compact, space-saving PCB designs.
- **Twin U-slot type insulation displacement contact structure**
Highly reliable wire termination with insulation displacement connection
- **3-point grip structure**
Designed to alleviate mechanical stress transmitted to the insulation displacement section of the wire.
- **Shrouded header structure**
The four-walled connector base design is compact, yet sturdy and robust.
- **Socket compatible with the SUH crimp style connector**

■ Specifications

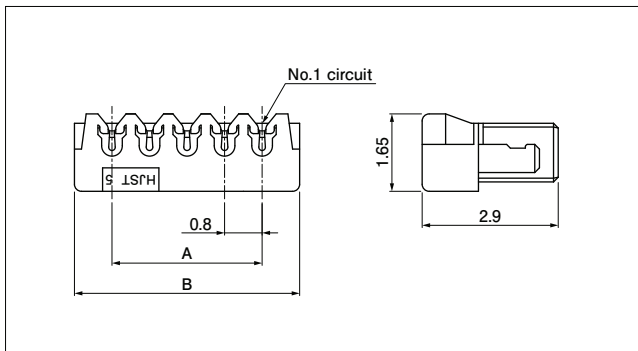
- Current rating: 0.5 A AC/DC (AWG #32)
0.2 A AC/DC (AWG #36)
- Voltage rating: 30 V AC/DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 20 mΩ max.
After test/ 40 mΩ max.
- Insulation resistance: 100 MΩ min.
- Withstanding voltage:
There shall be no breakdown or flashover while applying 200 VAC for one minute.
- Applicable wire:
Conductor size/ AWG #36, AWG #32
Conductor construction/ 7-strand, tin-coated wire
Insulation O.D./ ϕ 0.39 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.
- * RoHS2 compliance
- * Dimensional unit: mm
- * Contact JST for details.

■ Standards

- 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.

SUR CONNECTOR

Socket



No. of circuits	Model No.		Dimensions (mm)		Q'ty/box
	AWG #36	AWG #32	A	B	
2	02SUR-36L	02SUR-32S	0.8	2.4	2,000
3	03SUR-36L	03SUR-32S	1.6	3.2	2,000
4	04SUR-36L	04SUR-32S	2.4	4.0	2,000
5	05SUR-36L	05SUR-32S	3.2	4.8	2,000
6	06SUR-36L	06SUR-32S	4.0	5.6	2,000
8	08SUR-36L	08SUR-32S	5.6	7.2	2,000
10	10SUR-36L	10SUR-32S	7.2	8.8	2,000
12	12SUR-36L	12SUR-32S	8.8	10.4	2,000
14	14SUR-36L	14SUR-32S	10.4	12.0	2,000
15	15SUR-36L	15SUR-32S	11.2	12.8	2,000
16	16SUR-36L	16SUR-32S	12.0	13.6	2,000
20	20SUR-36L	20SUR-32S	15.2	16.8	2,000
22	22SUR-36L	22SUR-32S	16.8	18.4	2,000

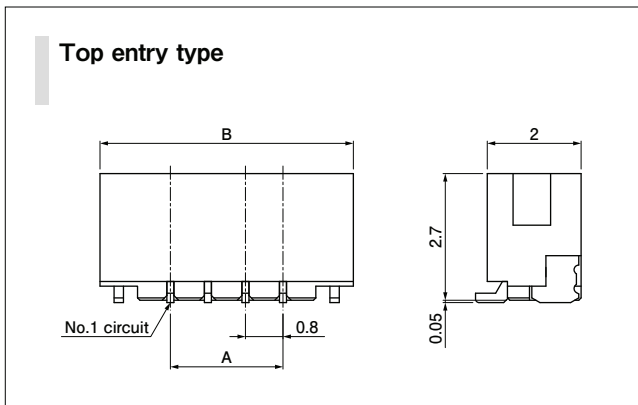
Material and Surface finish, etc.

Socket contact: Copper alloy, tin-plated
 Socket housing: PA, Lemon yellow/ AWG #36
 Natural/ AWG #32

Note: 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).

Header

Top entry type



Top entry type

No. of circuits	Model No.	Dimensions (mm)		Q'ty/reel
		A	B	
2	BM02B-SURS-TF	0.8	3.8	2,500
3	BM03B-SURS-TF	1.6	4.6	2,500
4	BM04B-SURS-TF	2.4	5.4	2,500
5	BM05B-SURS-TF	3.2	6.2	2,500
6	BM06B-SURS-TF	4.0	7.0	2,500
8	BM08B-SURS-TF	5.6	8.6	2,500
10	BM10B-SURS-TF	7.2	10.2	2,500
12	BM12B-SURS-TF	8.8	11.8	2,500
14	BM14B-SURS-TF	10.4	13.4	2,500
15	BM15B-SURS-TF	11.2	14.2	2,500
16	BM16B-SURS-TF	12.0	15.0	2,500
20	BM20B-SURS-TF	15.2	18.2	2,500

Material and Surface finish, etc.

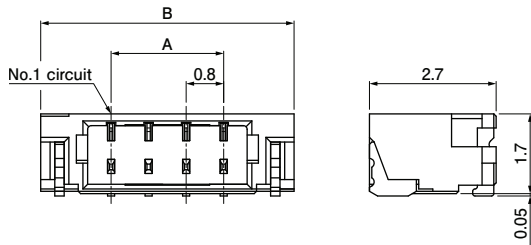
Base contact: Copper alloy, tin-plated
 Base housing: PA (Heat resistance), natural
 Reinforcement: Copper alloy, tin-plated

Note: 1. This product displays (LF) (SN) on a label.
 2. This product is supplied on embossed tape and reel packaging.
 3. 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).

SUR CONNECTOR

Header

Side entry type



Side entry type

No. of circuits	Model No.	Dimensions (mm)		Q'ty/reel
		A	B	
2	SM02B-SURS-TF	0.8	3.8	3,500
3	SM03B-SURS-TF	1.6	4.6	3,500
4	SM04B-SURS-TF	2.4	5.4	3,500
5	SM05B-SURS-TF	3.2	6.2	3,500
6	SM06B-SURS-TF	4.0	7.0	3,500
8	SM08B-SURS-TF	5.6	8.6	3,500
10	SM10B-SURS-TF	7.2	10.2	3,500
12	SM12B-SURS-TF	8.8	11.8	3,500
14	SM14B-SURS-TF	10.4	13.4	3,500
15	SM15B-SURS-TF	11.2	14.2	3,500
16	SM16B-SURS-TF	12.0	15.0	3,500
20	SM20B-SURS-TF	15.2	18.2	3,500
22	SM22B-SURS-TF	16.8	19.8	3,500

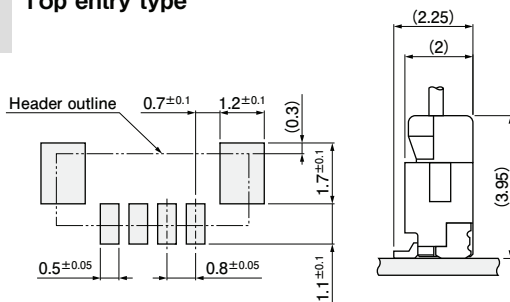
Material and Surface finish, etc.

Base contact: Copper alloy, tin-plated
 Base housing: PA (Heat resistance), natural
 Reinforcement: Copper alloy, tin-plated

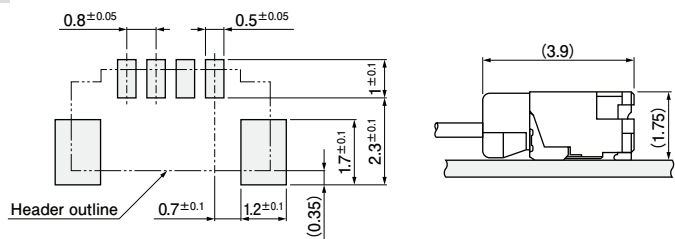
- Note: 1. This product displays (LF) (SN) on a label.
 2. This product is supplied on embossed tape and reel packaging.
 3. For flame retardant grade of resin material used, please refer to the "List of Registered Overseas Standards" on our website (listed in the "Technical Documents" column on the Product Information page).

PC board layout and Assembly layout

Top entry type



Side entry type



- Note: 1. The PC board layout figure shown is viewed from the connector mounting surface.
 2. Tolerance for the PCB pattern pitch shall be ± 0.05 and shall not accumulate.
 The above dimensions are for reference only. Please contact JST for further details.

Model number allocation

Socket

	02 SUR-32 S
No. of circuits	
Series name	
Applicable wire: 36···AWG #36, 32···AWG #32	
Color: S···Natural, L···Lemon yellow	

Header

	SM 02 B - SUR S - TF
Header type: BM···SMT top entry type SM···SMT side entry type	
No. of circuits	
Assembly product	
Series name	
Color: Natural	
Packaging style: Embossed taping	