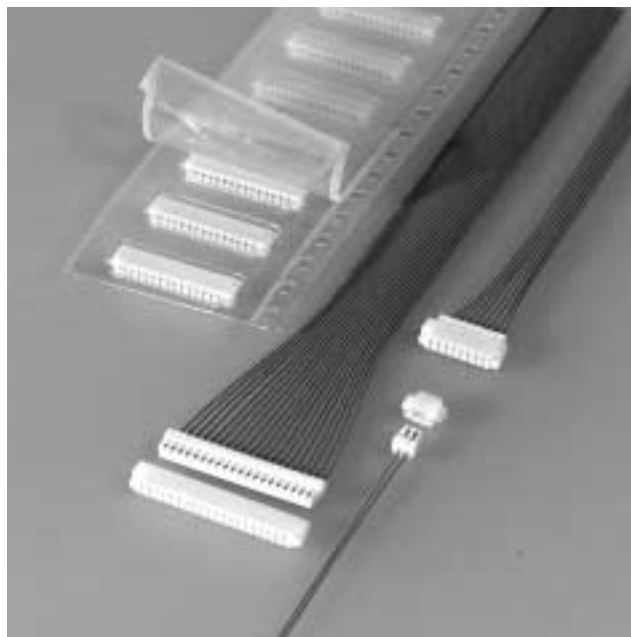
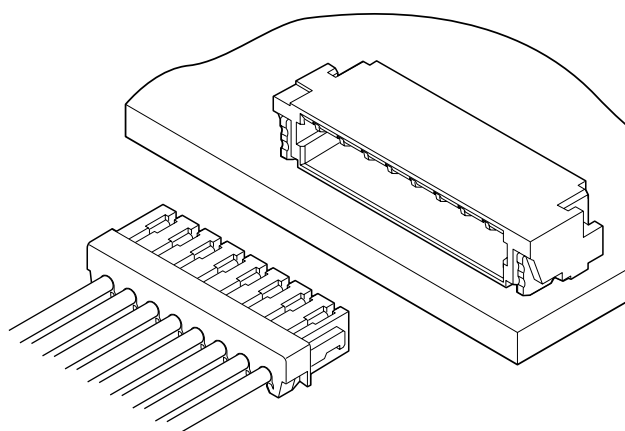




**The world's first 0.8mm (.031") pitch wire-to-board insulation displacement connector. Only 3.9mm (.154") depth and 1.75mm (.069") height after mounting on the PC board. Compared to the conventional 1.0mm (.039") pitch SSR connector, occupation space on the board is reduced by 34%.**



## Features

### • 3-point grip construction

The 3-point insulation grip feature and the strain relief ensure a firm grip on terminated wires and protection of the insulation displacement connection from possible damage.

### • Super fine wires are applicable

Applicable wire is of AWG #32 with only 0.38mm (.015") O.D. With this super fine wire, routing of wires is easy."

### • Shrouded header

The header is fully shrouded, but remains thin.

### • Twin U-slot insulation displacement section

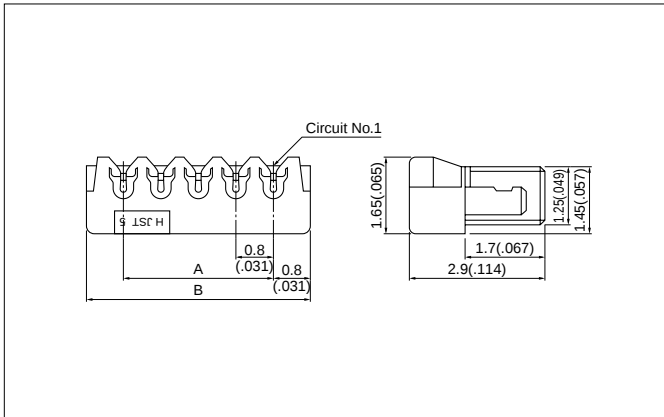
The insulation displacement section connected to each wire consists of two tin-plated slots (twin U-slots), which ensures reliable connection.

## Specifications

- Current rating: 0.5A AC, DC (AWG #32)
- Voltage rating: 30V DC
- Temperature range: -25°C to +85°C(including temperature rise in applying electrical current)
- Contact resistance: Initial value/20m Ω max.  
After environmental testing/40m Ω max.
- Insulation resistance: 100M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable wire: AWG #32  
Conductor/7 strands,  
tin-coated copper alloy  
Insulation O.D./0.38mm (.015")

\* Contact JST for details.

## Receptacle

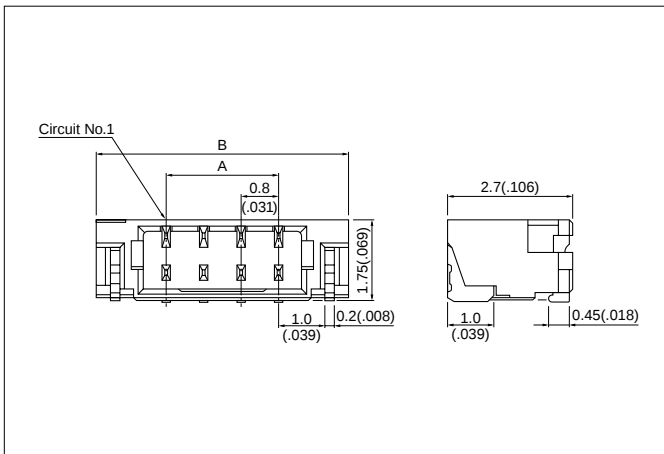


| Cir-<br>cuits | Model No.        | Dimensions mm(in.) |            | Q'ty/ box |
|---------------|------------------|--------------------|------------|-----------|
|               |                  | A                  | B          |           |
| 2             | <b>02SUR-32S</b> | 0.8(.031)          | 2.4(.094)  | 2,000     |
| 4             | <b>04SUR-32S</b> | 2.4(.094)          | 4.0(.157)  | 2,000     |
| 8             | <b>08SUR-32S</b> | 5.6(.220)          | 7.2(.283)  | 2,000     |
| 14            | <b>14SUR-32S</b> | 10.4(.409)         | 12.0(.472) | 2,000     |
| 15            | <b>15SUR-32S</b> | 11.2(.441)         | 12.8(.504) | 2,000     |
| 16            | <b>16SUR-32S</b> | 12.0(.472)         | 13.6(.535) | 2,000     |
| 17            | <b>17SUR-32S</b> | 12.8(.504)         | 14.4(.567) | 2,000     |
| 20            | <b>20SUR-32S</b> | 15.2(.598)         | 16.8(.661) | 2,000     |

### Material and Finish

Contact: Copper alloy, tin-plated  
Housing: Polyamide, UL94V-0, natural (ivory)

## Shrouded header



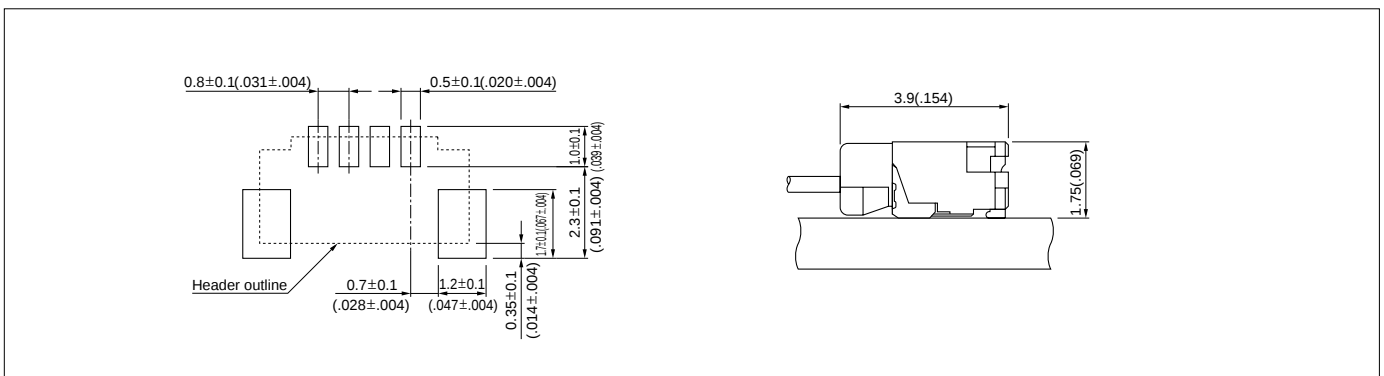
| Cir-<br>cuits | Model No.            | Dimensions mm(in.) |            | Q'ty/ reel |
|---------------|----------------------|--------------------|------------|------------|
|               |                      | A                  | B          |            |
| 2             | <b>SM02B-SURS-TF</b> | 0.8(.031)          | 3.8(.150)  | 3,500      |
| 4             | <b>SM04B-SURS-TF</b> | 2.4(.094)          | 5.4(.213)  | 3,500      |
| 8             | <b>SM08B-SURS-TF</b> | 5.6(.220)          | 8.6(.339)  | 3,500      |
| 14            | <b>SM14B-SURS-TF</b> | 10.4(.409)         | 13.4(.528) | 3,500      |
| 15            | <b>SM15B-SURS-TF</b> | 11.2(.441)         | 14.2(.559) | 3,500      |
| 16            | <b>SM16B-SURS-TF</b> | 12.0(.472)         | 15.0(.591) | 3,500      |
| 17            | <b>SM17B-SURS-TF</b> | 12.8(.504)         | 15.8(.622) | 3,500      |
| 20            | <b>SM20B-SURS-TF</b> | 15.2(.598)         | 18.2(.717) | 3,500      |

### Material and Finish

Contact: Copper alloy, copper-undercoated, tin/lead plated  
Wafer: Polyamide, UL94V-0, natural (ivory)  
Solder tab: Brass, copper-undercoated, tin/lead plated

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

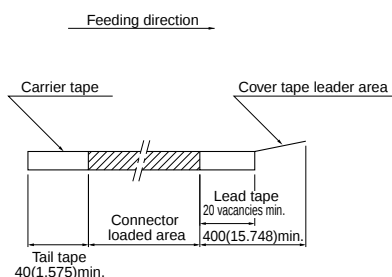
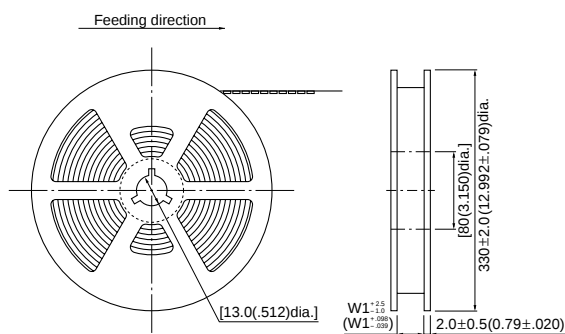
## PC board layout (viewed from component side) and Assembly layout



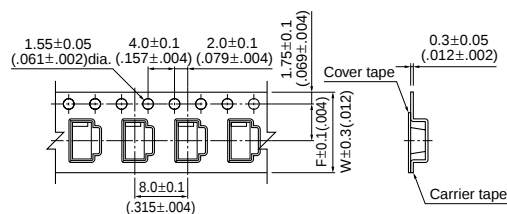
Note: 1. Tolerances are non-cumulative:  $\pm 0.05\text{mm} (\pm .002")$  for all centers.  
2. Dimensions above should serve as a guideline. Contact JST for details.

# SUR CONNECTOR

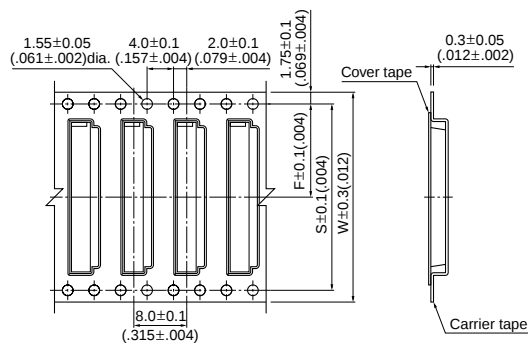
## Taping specifications



(2 to 17 circuits)



(20 circuits)



| Circuits | Taping dimensions mm(in.) |             |           | Reel dimensions mm(in.) | Q'ty / reel |
|----------|---------------------------|-------------|-----------|-------------------------|-------------|
|          | F                         | S           | W         | W1                      |             |
| 2,4      | 5.5(.217)                 | —           | 12( .472) | 13.5( .531)             | 3,500       |
| 8        | 7.5(.295)                 | —           | 16( .630) | 17.5( .689)             | 3,500       |
| 14 to 17 | 11.5(.453)                | —           | 24( .945) | 25.5(1.004)             | 3,500       |
| 20       | 14.2(.559)                | 28.4(1.118) | 32(1.260) | 33.5(1.319)             | 3,500       |

**Note:**

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