1.0 mm pitch secure lock type connector. This low insertion force type connector realizes easier mating operation. The basic concept of the contact part of this connector is equivalent to the performance proven SHL connector.

- Secure locking structure
- Contact lock structure
- Prevention of contact deformation
- Clear engagement click sounds

Specifications

- Current rating: 1.0 A AC/DC (AWG #28)
- Voltage rating: 50 V AC/DC
- Temperature range: -25°C to +85°C (including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 30 mΩ max. After environmental tests/ 50 mΩ max.
- Insulation resistance: 100 MΩ min.
- Withstanding voltage: 500 VAC/minute
- Applicable wire: Conductor size/ AWG #32 to #28 Insulation O.D./ 0.4 to 0.8 mm

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

Standards

Recognized E60389

PC board layout and Assembly layout

Note: 1. The above figure is the figure viewed from the connector mounting side.
2. Tolerances are non-cumulative: ± 0.05 mm for all centers.
3. The dimensions above should serve as a guideline. Contact JST for details.

Contact

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS2 compliance

Contact Crimping machine Applicator Crimp applicator with dies

SSHL-003T-P0.2 AP-K2N MK5-L10-3 MKJ/SSH/L-003-02 APLMK SSH/L-003-02

Note: Contact JST for fully automatic crimping applicator.
**NSH CONNECTOR**

### Housing

#### <2 circuits>

#### <3 circuits>

#### <4 to 9 circuits>

#### <10 to 15 circuits>

### No. of circuits | Model No. | Dimensions (mm) | Qty/bag
--- | --- | --- | ---
2 | NSHR-02V-S | A: 6.0, B: 5.0 | 3,000
3 | NSHR-03V-S | A: 6.0, B: 6.0 | 3,000
4 | NSHR-04V-S | A: 6.0, B: 7.0 | 2,500
5 | NSHR-05V-S | A: 6.0, B: 8.0 | 1,500
6 | NSHR-06V-S | A: 6.0, B: 9.0 | 1,500
7 | NSHR-07V-S | A: 7.0, B: 10.0 | 1,500
8 | NSHR-08V-S | A: 8.0, B: 10.0 | 1,000
9 | NSHR-09V-S | A: 9.0, B: 10.0 | 1,000
10 | NSHR-10V-S | A: 10.0, B: 10.0 | 1,000
11 | NSHR-11V-S | A: 10.0, B: 11.0 | 1,000
12 | NSHR-12V-S | A: 11.0, B: 12.0 | 1,000
13 | NSHR-13V-S | A: 12.0, B: 13.0 | 1,000
14 | NSHR-14V-S | A: 13.0, B: 14.0 | 1,000
15 | NSHR-15V-S | A: 14.0, B: 17.0 | 1,000

### Material and Finish

PBT, UL94V-0, natural

RoHS2 compliance

Note: 2 circuits product is that the second pin of 3 circuits product is plugged up. (Between circuits 2.0mm pitch)
**NSH CONNECTOR**

**Header**

<table>
<thead>
<tr>
<th>Top entry type</th>
<th>Side entry type</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>&lt;2 circuits&gt;</strong></td>
<td><strong>&lt;2 circuits&gt;</strong></td>
</tr>
<tr>
<td><img src="image1" alt="Top entry type diagram" /></td>
<td><img src="image2" alt="Side entry type diagram" /></td>
</tr>
<tr>
<td><strong>&lt;3 circuits&gt;</strong></td>
<td><strong>&lt;3 circuits&gt;</strong></td>
</tr>
<tr>
<td><img src="image3" alt="Top entry type diagram" /></td>
<td><img src="image4" alt="Side entry type diagram" /></td>
</tr>
<tr>
<td><strong>&lt;4 to 9 circuits&gt;</strong></td>
<td><strong>&lt;4 to 9 circuits&gt;</strong></td>
</tr>
<tr>
<td><img src="image5" alt="Top entry type diagram" /></td>
<td><img src="image6" alt="Side entry type diagram" /></td>
</tr>
<tr>
<td><strong>&lt;10 to 15 circuits&gt;</strong></td>
<td><strong>&lt;10 to 15 circuits&gt;</strong></td>
</tr>
<tr>
<td><img src="image7" alt="Top entry type diagram" /></td>
<td><img src="image8" alt="Side entry type diagram" /></td>
</tr>
</tbody>
</table>

### Top entry type

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Dimensions (mm)</th>
<th>Q'ty/reel</th>
</tr>
</thead>
<tbody>
<tr>
<td>BM02B-NSSHSS-TBT</td>
<td>2.0 5.0</td>
<td>1,000</td>
</tr>
<tr>
<td>BM03B-NSSHSS-TBT</td>
<td>3.0 6.0</td>
<td>1,000</td>
</tr>
<tr>
<td>BM04B-NSSHSS-TBT</td>
<td>4.0 7.0</td>
<td>1,000</td>
</tr>
<tr>
<td>BM05B-NSSHSS-TBT</td>
<td>5.0 8.0</td>
<td>1,000</td>
</tr>
<tr>
<td>BM06B-NSSHSS-TBT</td>
<td>6.0 9.0</td>
<td>1,000</td>
</tr>
<tr>
<td>BM07B-NSSHSS-TBT</td>
<td>7.0 10.0</td>
<td>1,000</td>
</tr>
<tr>
<td>BM08B-NSSHSS-TBT</td>
<td>8.0 11.0</td>
<td>1,000</td>
</tr>
<tr>
<td>BM09B-NSSHSS-TBT</td>
<td>9.0 12.0</td>
<td>1,000</td>
</tr>
<tr>
<td>BM10B-NSSHSS-TBT</td>
<td>10.0 13.0</td>
<td>1,000</td>
</tr>
<tr>
<td>BM11B-NSSHSS-TBT</td>
<td>11.0 14.0</td>
<td>1,000</td>
</tr>
<tr>
<td>BM12B-NSSHSS-TBT</td>
<td>12.0 15.0</td>
<td>1,000</td>
</tr>
<tr>
<td>BM13B-NSSHSS-TBT</td>
<td>13.0 16.0</td>
<td>1,000</td>
</tr>
<tr>
<td>BM14B-NSSHSS-TBT</td>
<td>14.0 17.0</td>
<td>1,000</td>
</tr>
<tr>
<td>BM15B-NSSHSS-TBT</td>
<td>14.0 17.0</td>
<td>1,000</td>
</tr>
</tbody>
</table>

### Side entry type

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Dimensions (mm)</th>
<th>Q'ty/reel</th>
</tr>
</thead>
<tbody>
<tr>
<td>SM02B-NSSHSS-TBT</td>
<td>2.0 5.0</td>
<td>1,500</td>
</tr>
<tr>
<td>SM03B-NSSHSS-TBT</td>
<td>3.0 6.0</td>
<td>1,500</td>
</tr>
<tr>
<td>SM04B-NSSHSS-TBT</td>
<td>4.0 7.0</td>
<td>1,500</td>
</tr>
<tr>
<td>SM05B-NSSHSS-TBT</td>
<td>5.0 8.0</td>
<td>1,500</td>
</tr>
<tr>
<td>SM06B-NSSHSS-TBT</td>
<td>6.0 9.0</td>
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<tr>
<td>SM15B-NSSHSS-TBT</td>
<td>14.0 17.0</td>
<td>1,500</td>
</tr>
</tbody>
</table>

### Material and Finish

**Top entry type**
- Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
- Wafer: Polyamide, UL94V-0, natural
- Reinforcement: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

**Side entry type**
- Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
- Wafer: Polyamide, UL94V-0, natural
- Reinforcement: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

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

**Note:**
1. The products listed above are supplied on embossed-tape with suction tape.
2. 2 circuits product is that the second pin of 3 circuits product is plugged up. (Between circuits 2.0 mm pitch)
Model number allocation

### Contact

- **Form**: S—Strip form
- **Series name**
- **Applicable wire range**: 003—AWG #32 to #28
- **Surface finish**: T—Tin-plated (reflow treatment)
- **Material**: P—Phosphor bronze
- **Terminal size**

#### SHLS -

- **Part name**: Socket
- **No. of circuits**: 2 to 15
- **Flammability**: V—UL94V-0
- **Color**: S—Natural, Z—Ivory, TR—Tomato red, E—Blue, MG—Moss green, DH—Dark gray, LE—Light blue, K—Black, DPK—Dark pink

### Housing

- **Series name**
- **Part name**: Socket
- **No. of circuits**: 2 to 15
- **Flammability**: V—UL94V-0
- **Color**: S—Natural, Z—Ivory, TR—Tomato red, E—Blue, MG—Moss green, DH—Dark gray, LE—Light blue, K—Black, DPK—Dark pink

### Header

#### BM 02 B - NSH S

- **Shape of assembled product**:
  - BM—SMT Top entry type
  - SM—SMT Side entry type
- **No. of circuits**: 2 to 15
- **Part name**: Header
- **Series name**
- **Color**: S—Natural, Z—Ivory, TR—Tomato red, E—Blue, MG—Moss green, DH—Dark gray, LE—Light blue, K—Black, DPK—Dark pink
- **Indication of clinch**: S—Straight pin
- **Packaging style**: TB—Embossed-taping
- **Suction tape**: None—Without suction tape, T—With suction tape

Model number "BM" (Top entry type) has suction tape, and "T" is given to the end of model number.
Model number "SM" (Side entry type) has no suction tape, and "T" is not given to the end of model number.