The XH connector was developed based on the high reliability and versatility of our NH series connectors. The connector is very small with a mounting height of 9.8mm.

- Original folded beam contact
- Box-shaped shrouded header
- Header with a boss
- Interchangeability
- Conforming to the HA terminal

**Specifications**

- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 250V AC, DC
- Temperature range: -25˚C to +85˚C (including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
  After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,000V AC/minute
- Applicable wire: AWG #30 to #22
- Applicable PC board thickness: 1.6mm
* Compliant with RoHS.
* Refer to “General Instruction and Notice when using Terminals and Connectors” at the end of this catalog.
* Contact JST for details.

**Standards**

- Recognized E60389
- Certified LR20812
- J50014297

**PC board layout and Assembly layout**

**Through-hole type (viewed from soldering side)**

<table>
<thead>
<tr>
<th>Top entry type</th>
<th>Side entry type</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Diagram" /></td>
<td><img src="image2" alt="Diagram" /></td>
</tr>
</tbody>
</table>

**Top entry type with a boss**

![Diagram](image3)

**Side entry type**

![Diagram](image4)

**SMT type (viewed from component side)**

<table>
<thead>
<tr>
<th>Side entry type</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image5" alt="Diagram" /></td>
</tr>
</tbody>
</table>

Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. If PC boards made of hard material are used, the hole dimensions should be larger. The dimensions above should serve as a guideline. Contact JST for details.
XH CONNECTOR

Contact

- **Shape A**
- **Shape B**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Shape</th>
<th>Applicable Wire</th>
<th>Insulation O.D (mm)</th>
<th>Qty / reel</th>
</tr>
</thead>
<tbody>
<tr>
<td>SXH-001T-P0.6N</td>
<td>A</td>
<td>0.13—0.33</td>
<td>26—22</td>
<td>1.3—1.9</td>
</tr>
<tr>
<td>SXH-001T-P0.6</td>
<td>B</td>
<td>0.08—0.33</td>
<td>28—22</td>
<td>0.9—1.9</td>
</tr>
<tr>
<td>SXH-002T-P0.6</td>
<td>B</td>
<td>0.05—0.13</td>
<td>30—26</td>
<td>0.9—1.3</td>
</tr>
</tbody>
</table>

Material and Finish

- Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Note:
1. Contact JST if you require gold-plated contacts or contacts made of brass.
2. Contact JST also if you require shielded wires, thin wires or other special wires.
3. SXH-001T-P0.6N is low-insertion force type contact, for easier insertion/withdrawal, which would be less resistant to the vibration.

Housing

- **Plugged up**
  - (6 circuits 5.0mm pitch)
  - Circuit No.1 mark

RoHS compliance

Note:
1. XHP-2(10.0)-U is 2 circuits 10.0mm pitch plugged up.
   Not UL/CeSA/TUV approved.
2. XHP-6(5.0)-U is 6 circuits 5.0mm pitch plugged up.
   Not UL/CeSA/TUV approved.

- For reference - As the color identification, the following alphabet shall be put in the underlined part.
- For availability, delivery and minimum order quantity, contact JST.
  
  ex. XHP-1-oo
  (blank)…natural (white)
  BK…black R…red E…blue Y…yellow L…lemon yellow
  M…green D…orange N…brown FY…vivid yellow

- Plugged up type
  
  ex. XHP-2(10.0)-U-oo
  (blank)…natural (white)
  R…red E…blue

Note: *Strip-crimp applicator
Through-hole type shrouded header

The shrouded headers are interchangeable with those of the NR and NRD insulation displacement connectors, and JQ board-to-board connectors.

Top entry type

- plugged up

Top entry type

(2 circuits)

(3 to 20 circuits)

Side entry type

Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance

This product displays (LF)(SN) on a label.
Note: B2(10.0)B-XH-A-U is 2 circuits 10.0mm pitch plugged up.
Not UL/CSA/TÜV approved.

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. S3B-XH-A-1
(blank)...natural (white)
BK...black   R...red   E...blue   Y...yellow   L...lemon yellow
M...green   D...orange   N...brown   FY...vivid yellow

Through-hole type shrouded header

Top entry type of glass-filled nylon

(2 circuits)

(3 to 8 circuits)

(9 to 15 circuits)
Through-hole type shrouded header

The shrouded headers are interchangeable with those of the NR and NRD insulation displacement connectors, and JQ board-to-board connectors.

### Top entry type with a boss
- **(1 circuit)**
- **(2 circuits)**
- **(3 to 12 circuits)**

SMT type shrouded header

<table>
<thead>
<tr>
<th>Circuits</th>
<th>Model No.</th>
<th>Dimensions (mm)</th>
<th>Q’ty / reel</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>&quot;B1B-XH-AM&quot;</td>
<td>—</td>
<td>1,000</td>
</tr>
<tr>
<td>2</td>
<td>B2B-XH-AM</td>
<td>2.5</td>
<td>7.4</td>
</tr>
<tr>
<td>3</td>
<td>B3B-XH-AM</td>
<td>5.0</td>
<td>9.9</td>
</tr>
<tr>
<td>4</td>
<td>B4B-XH-AM</td>
<td>7.5</td>
<td>12.4</td>
</tr>
<tr>
<td>5</td>
<td>B5B-XH-AM</td>
<td>10.0</td>
<td>14.9</td>
</tr>
<tr>
<td>6</td>
<td>B6B-XH-AM</td>
<td>12.5</td>
<td>17.4</td>
</tr>
<tr>
<td>7</td>
<td>B7B-XH-AM</td>
<td>15.0</td>
<td>19.9</td>
</tr>
<tr>
<td>8</td>
<td>B8B-XH-AM</td>
<td>17.5</td>
<td>22.4</td>
</tr>
<tr>
<td>9</td>
<td>B9B-XH-AM</td>
<td>20.0</td>
<td>24.9</td>
</tr>
<tr>
<td>10</td>
<td>B10B-XH-AM</td>
<td>22.5</td>
<td>27.4</td>
</tr>
<tr>
<td>12</td>
<td>B12B-XH-AM</td>
<td>27.5</td>
<td>32.4</td>
</tr>
</tbody>
</table>

### Material and Finish
- **Post:** Brass, copper-undercoated, tin-plated (reflow treatment)
- **Wafer:** PA 66, UL94V-0, natural (white)

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

Note: *Marked product is not UL/CsA/TUV approved.

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **B1B-XH-AM-oo**
- **(blank)...natural (white)**
- **M...green**
- **R...red**
- **E...blue**
- **Y...yellow**
- **L...lemon yellow**

<table>
<thead>
<tr>
<th>Circuits</th>
<th>Model No.</th>
<th>Dimensions (mm)</th>
<th>Q’ty / reel</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>S3B-XH-SM4-TB</td>
<td>5.0</td>
<td>12.5</td>
</tr>
<tr>
<td>4</td>
<td>S4B-XH-SM4-TB</td>
<td>7.5</td>
<td>15.0</td>
</tr>
<tr>
<td>6</td>
<td>S6B-XH-SM4-TB</td>
<td>12.5</td>
<td>20.0</td>
</tr>
</tbody>
</table>

### Material and Finish
- **Post:** Copper alloy, copper-undercoated, tin-plated (reflow treatment)
- **Wafer:** PA 6T, UL94V-0, natural (ivory)
- **Solder tab:** Brass, copper-undercoated, tin-plated (reflow treatment)

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

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

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **S3B-XH-SM4-oo-TB**
- **(blank)...natural (ivory)**
- **M...green**
- **R...red**
- **E...blue**
- **L...lemon yellow**
## XH Connector

### Through-hole type shrouded header on radial-tape

**TV4 type**

(3 to 4 circuits)

**2-TV4 type**

(2 circuits)

**2-TV4 type**

(3 to 8 circuits)

---

### Circuits

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Dimensions (mm)</th>
<th>Qty / box</th>
</tr>
</thead>
<tbody>
<tr>
<td>TV4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

### Material and Finish

- **Post**: Brass, copper-undercoated, tin-plated (reflow treatment)
- **Wafer**: TV4 type/PA 66, UL94V-0, natural (white)
- **2-TV4 type**: Glass-filled PA 66, UL94V-0, natural (ivory)

---

### Taping specification

- 2 circuits: 5.1
- 3 to 8 circuits: 5.0

---

### Packaging specifications

- **Distance between the end of the tape and the first connector’s center line (either end)**
  - 19.05mm

---

### RoHS compliance

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

*For reference* As the color identification, the following alphabet shall be put in the underlined part.

- **C**: black (glass-filled)
- **BK**: black
- **R**: red
- **E**: blue
- **Y**: yellow
- **M**: green

---

Note: Products of different packaging specifications are also available. Contact JST for details.