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**: 3 A AC, DC (AWG #22)
- **Voltage rating**: 250 V AC, DC
- **Temperature range**: -25˚C to +85˚C (including temperature rise in applying electrical current)
- **Contact resistance**: Initial value/ 10 mΩ max. After environmental tests/ 20 mΩ max.
- **Insulation resistance**: 1,000 MΩ min.
- **Withstanding voltage**: 1,000 VAC/minute
- **Applicable wire**: AWG #30 to #22
- **Applicable PC board thickness**: 1.6 mm

* Refer to “General Instruction and Notice when using Terminals and Connectors” at the end of this catalog.
* Contact JST for details.
* Compliant with RoHS.

**Standards**

- Recognized E60389
- Certified LR20812
- J50014297

**PC board layout and Assembly layout**

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

- **Top entry type**
- **Side entry type**

**Top entry type with a boss**

- **<Single circuit>**
- **<2 circuits or more>**

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

- **Side entry type**

Note: 1. Tolerances are non-cumulative: ±0.05 mm for all centers.
2. Hole dimensions differ according to the type 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.
**Contact**

**Shape A**

**Shape B**

---

**Material and Finish**

Phosphor bronze, tin-plated

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**RoHS compliance**

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.

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**Housing**

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**RoHS compliance**

1. XHP-2(10.0)-U is 2 circuits 10.0mm pitch plugged up. Not UL/CSA/TÜV approved.
2. XHP-6(5.0)-U is 6 circuits 5.0mm pitch plugged up. Not UL/CSA/TÜV approved.

---

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

*blank* ... natural (white)

BK ... black

R ... red

E ... blue

Y ... yellow

L ... lemon yellow

M ... green

D ... orange

N ... brown

FY ... vivid yellow

---

For availability, delivery and minimum order quantity, contact JST.
**XH CONNECTOR**

**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**

- **<2 circuits>**
- **<3 circuits or more>**
- **plugged up**

**Side entry type**

- **<2 circuits>**
- **<3 circuits or more>**

---

**Through-hole type shrouded header**

**Top entry type of glass-filled nylon**

- **<2 circuits>**
- **<3 to 8 circuits>**
- **<9 circuits or more>**

---

**Circuits** | **Model No.** | **Dimensions (mm)** | **Q'ty/box**
--- | --- | --- | ---
2 | B2B-XH-2 | 2.5 | 1,000 | 1,000
3 | B3B-XH-2 | 5.0 | 1,000 | 1,000
4 | B5B-XH-2 | 10.0 | 1,000 | 1,000
5 | B7B-XH-2 | 15.0 | 1,000 | 1,000
8 | B8B-XH-2 | 20.0 | 1,000 | 1,000
9 | B9B-XH-2 | 25.0 | 1,000 | 1,000
10 | B10B-XH-2 | 30.0 | 1,000 | 1,000
11 | B11B-XH-2 | 35.0 | 1,000 | 1,000
12 | B12B-XH-2 | 40.0 | 1,000 | 1,000
13 | B13B-XH-2 | 45.0 | 1,000 | 1,000
14 | B14B-XH-2 | 50.0 | 1,000 | 1,000
15 | B15B-XH-2 | 55.0 | 1,000 | 1,000

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**Material and Finish**

- **Post:** Brass, copper-undercoated, tin-plated (reflow treatment)
- **Wafer:** Glass-filled PA 66, UL 94V-0, natural (ivory)

---

**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.

For availability, delivery and minimum order quantity, contact JST.

**Note:** B2(10.0)B-XH-A-U is 2 circuits 10.0mm pitch plugged up.

---

**For availability**

JST
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

<Single circuit>

<2 circuits>

<3 circuits or more>

SMT type shrouded header

RoHS compliance

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

Note: *Marked product is not approved by UL/CSA/TUV standards.

For availability, delivery and minimum order quantity, contact JST.

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

Material and Finish

Post: Brass, 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.

For availability, delivery and minimum order quantity, contact JST.

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

Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, natural (white)
XH CONNECTOR

Through-hole type shrouded header on radial-tape

<table>
<thead>
<tr>
<th>Circuits</th>
<th>Model No.</th>
<th>Dimensions (mm)</th>
<th>Qty/box</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>2-TV4</td>
<td>A</td>
</tr>
<tr>
<td>&lt;3 to 4 circuits&gt;</td>
<td>B2B-XH-2-TV4</td>
<td>2.5</td>
<td>10.0</td>
</tr>
<tr>
<td>&lt;2 circuits&gt;</td>
<td>B3B-XH-2-TV4</td>
<td>2.5</td>
<td>12.4</td>
</tr>
<tr>
<td>&lt;3 to 8 circuits&gt;</td>
<td>B4B-XH-2-TV4</td>
<td>2.5</td>
<td>14.9</td>
</tr>
<tr>
<td>&lt;2 circuits&gt;</td>
<td>B5B-XH-2-TV4</td>
<td>2.5</td>
<td>14.9</td>
</tr>
<tr>
<td>&lt;3 to 8 circuits&gt;</td>
<td>B6B-XH-2-TV4</td>
<td>2.5</td>
<td>17.4</td>
</tr>
<tr>
<td>&lt;2 circuits&gt;</td>
<td>B7B-XH-2-TV4</td>
<td>2.5</td>
<td>19.9</td>
</tr>
<tr>
<td>&lt;3 to 8 circuits&gt;</td>
<td>B8B-XH-2-TV4</td>
<td>2.5</td>
<td>22.4</td>
</tr>
</tbody>
</table>

Material and Finish

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

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

For availability, delivery and minimum order quantity, contact JST.

ex. B2B-XH-2-TV4-oo
(blank)...natural (TV4 type/white, 2-TV4 type/ivory)
C...black (glass-filled) BK...black R...red E...blue Y...yellow
M...green

Taping specification

Note: Conforms to JIC C 0806 of "Tape packaging of components with unidirectional leads on continuous tapes".

Packaging specifications

Distance between the end of the tape and the first connector's center line (either end)

2 and 3 circuits: 12.7
4 to 8 circuits: 27.4

Packaging specifications

Package type Flat pack (zigzag folded)
Distance between folds 24 indexing holes per fold (304.8 mm)
Box size 316(W)×45(D)×330(H) mm
Distance between the end of the tape and the first connector's center line (either end) 19.05 mm
Quantity 2, 3 circuits 1,000 pcs. / box
4~8 circuits 500 pcs. / box

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