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/ 10 mΩ max.
  After environmental tests/ 20 mΩ max.
- Insulation resistance: 1,000 MΩ min.
- Withstanding voltage: 1,000 V AC/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

Note: 1. Tolerances are non-cumulative: ±0.05mm 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.
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.

Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

Material
PA 6, UL94V-0, natural (white)

RoHS compliance
Note:
1. XHP-2(10.0)-U is 2 circuits 10.0mm pitch plugged up. Not UL/CSA/TUV approved.
2. XHP-6(5.0)-U is 6 circuits 5.0mm pitch plugged up. Not UL/CSA/TUV approved.
3. 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

Circuits Model No. Dimensions (mm) Q’ty/bag
1 XHP-1 — 3.2 4.8 1,000
2 XHP-2 2.5 5.7 7.3 1,000
2 XHP-2(10.0)-U 10.0 13.2 14.8 1,000
3 XHP-3 5.0 8.2 9.8 1,000
4 XHP-4 7.5 10.7 12.3 1,000
5 XHP-5 10.0 13.2 14.8 1,000
6 XHP-6 12.5 15.7 17.3 1,000
6 XHP-6(5.0)-U 25.0 28.2 29.8 1,000
7 XHP-7 15.0 18.2 19.8 1,000
8 XHP-8 17.5 20.7 22.3 1,000
9 XHP-9 20.0 23.2 24.8 1,000
10 XHP-10 22.5 25.7 27.3 1,000
11 XHP-11 25.0 28.2 29.8 1,000
12 XHP-12 27.5 30.7 32.3 1,000
13 XHP-13 30.0 33.2 34.8 1,000
14 XHP-14 32.5 35.7 37.3 1,000
15 XHP-15 35.0 38.2 39.8 1,000
16 XHP-16 37.5 40.7 42.3 1,000
20 XHP-20 47.5 50.7 52.3 500

Material
PA 6, UL94V-0, natural (white)
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

● plugged up

<2 circuits>

<3 circuits or more>

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

ex. B2B-XH-A(-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

Through-hole type shrouded header

Top entry type of glass-filled nylon

<2 circuits>

<3 to 8 circuits>

<9 circuits or more>

Circuits

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Dimensions (mm)</th>
<th>Q’ty / box</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Top entry type</td>
<td>A</td>
</tr>
<tr>
<td></td>
<td>Side entry type</td>
<td>A</td>
</tr>
<tr>
<td>2</td>
<td>B2B-XH-2</td>
<td>2.5</td>
</tr>
<tr>
<td>3</td>
<td>B3B-XH-2</td>
<td>2.5</td>
</tr>
<tr>
<td>4</td>
<td>B4B-XH-2</td>
<td>7.5</td>
</tr>
<tr>
<td>5</td>
<td>B5B-XH-2</td>
<td>10.0</td>
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<tr>
<td>6</td>
<td>B6B-XH-2</td>
<td>12.5</td>
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<tr>
<td>7</td>
<td>B7B-XH-2</td>
<td>15.0</td>
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<tr>
<td>8</td>
<td>B8B-XH-2</td>
<td>20.0</td>
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<tr>
<td>9</td>
<td>B9B-XH-2</td>
<td>22.5</td>
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<td>10</td>
<td>B10B-XH-2</td>
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<td>11</td>
<td>B11B-XH-2</td>
<td>27.5</td>
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<tr>
<td>12</td>
<td>B12B-XH-2</td>
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<td>13</td>
<td>B13B-XH-2</td>
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<td>14</td>
<td>B14B-XH-2</td>
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<td>15</td>
<td>B15B-XH-2</td>
<td>37.5</td>
</tr>
<tr>
<td>20</td>
<td>B20B-XH-2</td>
<td>47.5</td>
</tr>
</tbody>
</table>

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

ex. B2B-XH-2-oo

(blank)…natural (white)
C…black R…red E…blue Y…yellow M…green
## 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>**
  - Circuits: 1, 2, 3, 4, 5
  - Model No.: B1B-XH-AM, B2B-XH-AM, B3B-XH-AM, B4B-XH-AM, B5B-XH-AM
  - Dimensions (mm):
    - A: 7.4
    - B: 9.9
  - Q’ty / box: 1,000

- **<2 circuits>**
  - Circuits: 6, 7, 8, 9
  - Model No.: B6B-XH-AM, B7B-XH-AM, B8B-XH-AM, B9B-XH-AM
  - Dimensions (mm):
    - A: 17.4
    - B: 19.9
  - Q’ty / box: 500

- **<3 circuits or more>**
  - Circuits: 10, 11, 12
  - Model No.: B10B-XH-AM, B12B-XH-AM
  - Dimensions (mm):
    - A: 27.4
    - B: 32.4
  - Q’ty / box: 250

### SMT type shrouded header

- **<2 circuits>**
  - Circuits: 3, 4, 5
  - Model No.: S3B-XH-SM4-TB, S4B-XH-SM4-TB, S6B-XH-SM4-TB
  - Dimensions (mm):
    - A: 12.5
    - B: 15.0
  - Q’ty / reel: 500

### Material and Finish

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

**RoHS compliance**

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

Note: *Marked product is not UL/CSA/TÜV approved.

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

---

## SMT type shrouded header

- **<3 circuits or more>**
  - Circuits: 6
  - Model No.: S6B-XH-SM4-TB
  - Dimensions (mm):
    - A: 20.0
  - Q’ty / reel: 500

### 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 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>**

<table>
<thead>
<tr>
<th>Circuits</th>
<th>Model No.</th>
<th>Dimensions (mm)</th>
<th>Qty / box</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>B2B-XH-2-TV4</td>
<td></td>
<td>1,000</td>
</tr>
<tr>
<td>3</td>
<td>B3B-XH-2-TV4</td>
<td>5.0</td>
<td>1,000</td>
</tr>
<tr>
<td>4</td>
<td>B4B-XH-2-TV4</td>
<td>7.5</td>
<td>500</td>
</tr>
<tr>
<td>5</td>
<td>B5B-XH-2-TV4</td>
<td>10.0</td>
<td>500</td>
</tr>
<tr>
<td>6</td>
<td>B6B-XH-2-TV4</td>
<td>12.5</td>
<td>500</td>
</tr>
<tr>
<td>7</td>
<td>B7B-XH-2-TV4</td>
<td>15.0</td>
<td>500</td>
</tr>
<tr>
<td>8</td>
<td>B8B-XH-2-TV4</td>
<td>17.5</td>
<td>500</td>
</tr>
</tbody>
</table>

#### 2-TV4 type

**<2 circuits>**

<table>
<thead>
<tr>
<th>Circuits</th>
<th>Model No.</th>
<th>Dimensions (mm)</th>
<th>Qty / box</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>B2B-XH-2-TV4</td>
<td></td>
<td>1,000</td>
</tr>
<tr>
<td>3</td>
<td>B3B-XH-2-TV4</td>
<td>5.0</td>
<td>1,000</td>
</tr>
<tr>
<td>4</td>
<td>B4B-XH-2-TV4</td>
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<tr>
<td>5</td>
<td>B5B-XH-2-TV4</td>
<td>10.0</td>
<td>500</td>
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<tr>
<td>6</td>
<td>B6B-XH-2-TV4</td>
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<td>7</td>
<td>B7B-XH-2-TV4</td>
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</tr>
<tr>
<td>8</td>
<td>B8B-XH-2-TV4</td>
<td>17.5</td>
<td>500</td>
</tr>
</tbody>
</table>

#### 2-TV4 type

**<3 to 8 circuits>**

<table>
<thead>
<tr>
<th>Circuits</th>
<th>Model No.</th>
<th>Dimensions (mm)</th>
<th>Qty / box</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 to 4</td>
<td>B2B-XH-2-TV4</td>
<td></td>
<td>1,000</td>
</tr>
<tr>
<td>3 to 8</td>
<td>B3B-XH-2-TV4</td>
<td>5.0</td>
<td>1,000</td>
</tr>
<tr>
<td>4 to 8</td>
<td>B4B-XH-2-TV4</td>
<td>7.5</td>
<td>500</td>
</tr>
<tr>
<td>5</td>
<td>B5B-XH-2-TV4</td>
<td>10.0</td>
<td>500</td>
</tr>
<tr>
<td>6</td>
<td>B6B-XH-2-TV4</td>
<td>12.5</td>
<td>500</td>
</tr>
<tr>
<td>7</td>
<td>B7B-XH-2-TV4</td>
<td>15.0</td>
<td>500</td>
</tr>
<tr>
<td>8</td>
<td>B8B-XH-2-TV4</td>
<td>17.5</td>
<td>500</td>
</tr>
</tbody>
</table>

#### 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.

**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

#### Material and Finish

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

#### Taping specification

- 2 and 3 circuits: 12.7
- 4 to 8 circuits: 25.4
- 6.75

#### Packaging specifications

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

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

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