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 9.8 mm.

- 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℃ to +85℃
  (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

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

J50014297

PC board layout and Assembly layout

〈Through-hole type (viewed from soldening side)〉

Top entry type

2.5±0.05 (2.5 min.)

2 circuits: φ1+0.1
1 circuits or more: φ0.8+0.1

(3.4 min.)

Top entry type with a boss

〈Single circuit〉

2.5±0.05 (2.5 min.)

2 circuits: φ1+0.1
1 circuits or more: φ0.8+0.1

(3.4 min.)

〈SMT type (viewed from connector mounting side)〉

Side entry type

2.5±0.05 (2.5 min.)

2 circuits: φ1+0.1
3 circuits or more: φ0.9+0.1

(3.2 min.)

End face of wafer on the mating side

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.
RoHS2 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.

<table>
<thead>
<tr>
<th>Contact</th>
<th>Crimping machine</th>
<th>Crimp applicator</th>
<th>Dies</th>
<th>Applicator</th>
<th>Contact Crimping machine</th>
<th>Crimp applicator</th>
<th>Dies</th>
<th>Applicator</th>
</tr>
</thead>
<tbody>
<tr>
<td>SXH-001T-P0.6N</td>
<td>MK/SXH-001-06N</td>
<td>SXH-001-06N</td>
<td>SXH-002-06N</td>
<td>SXH-001-06N</td>
<td>SXH-002-06N</td>
<td>SXH-001-06N</td>
<td>SXH-002-06N</td>
<td>SXH-001-06N</td>
</tr>
<tr>
<td>SXH-001T-P0.6</td>
<td>MK/SXH-001-06</td>
<td>SXH-001-06</td>
<td>SXH-002-06</td>
<td>SXH-001-06</td>
<td>SXH-002-06</td>
<td>SXH-001-06</td>
<td>SXH-002-06</td>
<td>SXH-001-06</td>
</tr>
<tr>
<td>SXH-002T-P0.6</td>
<td>MK/SXH-002-06</td>
<td>SXH-002-06</td>
<td>SXH-001-06</td>
<td>SXH-002-06</td>
<td>SXH-001-06</td>
<td>SXH-002-06</td>
<td>SXH-001-06</td>
<td>SXH-002-06</td>
</tr>
</tbody>
</table>

Note: Contact JST for fully automatic crimping applicator.

<table>
<thead>
<tr>
<th>Material and Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphor bronze, tin-plated (reflow treatment)</td>
</tr>
</tbody>
</table>

RoHS2 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.

<table>
<thead>
<tr>
<th>No. of circuits</th>
<th>Model No.</th>
<th>Dimensions (mm)</th>
<th>Qty/ bag</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>A</td>
<td>B</td>
</tr>
<tr>
<td>1</td>
<td>XHP-1</td>
<td>--</td>
<td>3.2</td>
</tr>
<tr>
<td>2</td>
<td>XHP-2</td>
<td>2.5</td>
<td>5.7</td>
</tr>
<tr>
<td>2</td>
<td>XHP-2(10.0)-U</td>
<td>10.0</td>
<td>13.2</td>
</tr>
<tr>
<td>3</td>
<td>XHP-3</td>
<td>2.5</td>
<td>5.7</td>
</tr>
<tr>
<td>4</td>
<td>XHP-4</td>
<td>7.5</td>
<td>10.7</td>
</tr>
<tr>
<td>5</td>
<td>XHP-5</td>
<td>12.5</td>
<td>15.7</td>
</tr>
<tr>
<td>6</td>
<td>XHP-6</td>
<td>25.0</td>
<td>28.2</td>
</tr>
<tr>
<td>7</td>
<td>XHP-7</td>
<td>15.0</td>
<td>18.2</td>
</tr>
<tr>
<td>8</td>
<td>XHP-8</td>
<td>17.5</td>
<td>20.7</td>
</tr>
<tr>
<td>9</td>
<td>XHP-9</td>
<td>20.0</td>
<td>23.2</td>
</tr>
<tr>
<td>10</td>
<td>XHP-10</td>
<td>22.5</td>
<td>25.7</td>
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<tr>
<td>11</td>
<td>XHP-11</td>
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<tr>
<td>12</td>
<td>XHP-12</td>
<td>30.0</td>
<td>33.2</td>
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<tr>
<td>13</td>
<td>XHP-13</td>
<td>35.0</td>
<td>38.2</td>
</tr>
<tr>
<td>14</td>
<td>XHP-14</td>
<td>40.0</td>
<td>43.2</td>
</tr>
<tr>
<td>15</td>
<td>XHP-15</td>
<td>45.0</td>
<td>48.2</td>
</tr>
<tr>
<td>16</td>
<td>XHP-16</td>
<td>50.0</td>
<td>53.2</td>
</tr>
<tr>
<td>20</td>
<td>XHP-20</td>
<td>50.0</td>
<td>53.2</td>
</tr>
</tbody>
</table>

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

RoHS2 compliance
Note:
1. XHP-2(10.0)-U is 2 circuits 10.0 mm pitch plugged up. Unlisted in UL/TÜV.
2. XHP-6(5.0)-U is 6 circuits 5.0 mm pitch plugged up. Unlisted in UL/TÜV.

<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
(blink)...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
(blink)...natural (white)
R...red E...blue
The shrouded headers are interchangeable with those of the NR and NRD insulation displacement connectors, and JQ board-to-board connectors.

### Through-hole type shrouded header

**Top entry type**
- Plugged up

**Side entry type**

---

### Through-hole type shrouded header

**Top entry type of glass-filled nylon**
- <2 circuits>
- <3 to 8 circuits>
- <9 circuits or more>

---

**Table: Model Numbers and Dimensions**

<table>
<thead>
<tr>
<th>No. of circuits</th>
<th>Model No.</th>
<th>Dimensions (mm)</th>
<th>Q’ty/bag</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>B2B-XH-2</td>
<td>A: 2.5 B: 7.4</td>
<td>1,000</td>
</tr>
<tr>
<td>3</td>
<td>B3B-XH-2</td>
<td>A: 5.0 B: 9.9</td>
<td>1,000</td>
</tr>
<tr>
<td>4</td>
<td>B4B-XH-2</td>
<td>A: 7.5 B: 12.4</td>
<td>500</td>
</tr>
<tr>
<td>5</td>
<td>B5B-XH-2</td>
<td>A: 10.0 B: 14.9</td>
<td>500</td>
</tr>
<tr>
<td>6</td>
<td>B6B-XH-2</td>
<td>A: 12.5 B: 17.4</td>
<td>500</td>
</tr>
<tr>
<td>7</td>
<td>B7B-XH-2</td>
<td>A: 15.0 B: 19.9</td>
<td>250</td>
</tr>
<tr>
<td>8</td>
<td>B8B-XH-2</td>
<td>A: 17.5 B: 22.4</td>
<td>250</td>
</tr>
<tr>
<td>9</td>
<td>B9B-XH-2</td>
<td>A: 20.0 B: 24.9</td>
<td>250</td>
</tr>
<tr>
<td>2</td>
<td>B2B-XH-2</td>
<td>A: 2.5 B: 7.4</td>
<td>1,000</td>
</tr>
<tr>
<td>3</td>
<td>B3B-XH-2</td>
<td>A: 5.0 B: 9.9</td>
<td>1,000</td>
</tr>
<tr>
<td>4</td>
<td>B4B-XH-2</td>
<td>A: 7.5 B: 12.4</td>
<td>500</td>
</tr>
<tr>
<td>5</td>
<td>B5B-XH-2</td>
<td>A: 10.0 B: 14.9</td>
<td>500</td>
</tr>
<tr>
<td>6</td>
<td>B6B-XH-2</td>
<td>A: 12.5 B: 17.4</td>
<td>500</td>
</tr>
<tr>
<td>7</td>
<td>B7B-XH-2</td>
<td>A: 15.0 B: 19.9</td>
<td>250</td>
</tr>
<tr>
<td>8</td>
<td>B8B-XH-2</td>
<td>A: 17.5 B: 22.4</td>
<td>250</td>
</tr>
<tr>
<td>9</td>
<td>B9B-XH-2</td>
<td>A: 20.0 B: 24.9</td>
<td>250</td>
</tr>
</tbody>
</table>

---

**Material and Finish**

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

---

**RoHS2 compliance**

This product displays (LF)(SN) on a label. For availability, delivery and minimum order quantity, contact JST.

---

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.
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 circuits or more>**

SMT type shrouded header

No. of circuits | Model No. | Dimensions (mm) | Q’ty/box
--- | --- | --- | ---
1 | B1B-XH-AM | 1,000 | 1,000
2 | B2B-XH-AM | 2,5 | 7,4 |
3 | B3B-XH-AM | 5,0 | 9,9 |
4 | B4B-XH-AM | 7,5 | 12,4 |
5 | B5B-XH-AM | 10,0 | 14,9 |
6 | B6B-XH-AM | 12,5 | 17,4 |
7 | B7B-XH-AM | 15,0 | 19,9 |
8 | B8B-XH-AM | 17,5 | 22,4 |
9 | B9B-XH-AM | 20,0 | 24,9 |
10 | B10B-XH-AM | 22,5 | 27,4 |
12 | B12B-XH-AM | 27,5 | 32,4 |

**Material and Finish**

- Post: Brass, copper-undercoated, tin-plated (reflow treatment)
- Wafer: PA 66, UL94V-0, natural (white)
- RoHS2 compliance: This product displays (LF)(SN) on a label.
- Note: *Marked product is not UL/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. B1B-XH-AM-oo-

**SMT type shrouded header**

No. of circuits | Model No. | Dimensions (mm) | Q’ty/reel
--- | --- | --- | ---
3 | S3B-XH-SM4-TB | 5,0 | 12,5 |
4 | S4B-XH-SM4-TB | 7,5 | 15,0 |
6 | S6B-XH-SM4-TB | 12,5 | 20,0 |

**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)

RoHS2 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)
- L...lemon yellow
- M...green
- R...red
- E...blue
- Y...yellow
XH CONNECTOR

Through-hole type shrouded header on radial-tape

<table>
<thead>
<tr>
<th>No. of circuits</th>
<th>Model No.</th>
<th>Dimensions (mm)</th>
<th>Q'ty/box</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TV4</td>
<td>2-TV4</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>B2B-XH-2-TV4</td>
<td>—</td>
<td>1,000</td>
</tr>
<tr>
<td>3</td>
<td>B3B-XH-TV4</td>
<td>5.0</td>
<td>9.9</td>
</tr>
<tr>
<td>4</td>
<td>B4B-XH-TV4</td>
<td>7.5</td>
<td>12.4</td>
</tr>
<tr>
<td>5</td>
<td>B5B-XH-2-TV4</td>
<td>10.0</td>
<td>14.9</td>
</tr>
<tr>
<td>6</td>
<td>B6B-XH-2-TV4</td>
<td>12.5</td>
<td>17.4</td>
</tr>
<tr>
<td>7</td>
<td>B7B-XH-2-TV4</td>
<td>15.0</td>
<td>19.9</td>
</tr>
<tr>
<td>8</td>
<td>B8B-XH-2-TV4</td>
<td>17.5</td>
<td>22.4</td>
</tr>
</tbody>
</table>

RoHS2 compliance  This product displays (LF)(SN) on a label. Note: Unlisted in UL/TUV.

<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)
Wafer: TV4 type/ PA 66, UL94V-0, natural (white)
2-TV4 type/ Glass-filled PA 66, UL94V-0, natural (ivory)

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

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