Specifications

- Current rating: 15 A AC, DC (2 circuits/ AWG #14)
- Voltage rating: 300 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: 1,500 VAC/minute
- Applicable wire: AWG #26 to #14
- Applicable PC board thickness: 1.6 mm

Note: The current rating differs depending on the number of circuits and the wire size used in each connector. The table below lists the current rating as a function of the number of circuits and the wire size.

<table>
<thead>
<tr>
<th>Circuits</th>
<th>#14</th>
<th>#16</th>
<th>#18</th>
<th>#20</th>
<th>#22</th>
<th>#24</th>
<th>#26</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>15</td>
<td>10</td>
<td>7</td>
<td>5</td>
<td>4</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>14</td>
<td>9</td>
<td>6</td>
<td>4</td>
<td>4</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>13</td>
<td>9</td>
<td>6</td>
<td>4.4</td>
<td>4.4</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>6</td>
<td>12</td>
<td>8</td>
<td>5</td>
<td>4.4</td>
<td>4.4</td>
<td>3</td>
<td>2</td>
</tr>
</tbody>
</table>

Note: Do not branch in parallel current which exceeds the rated current (e.g. more than 15 A in the case of 2 circuits with AWG #14). If branched in parallel, current imbalance or other problems may develop. If it is absolutely necessary to branch such a large current in parallel, design the circuits without causing any imbalance and provide an extra margin for each circuit.

Standards

- Recognized E60389
- Certified LR70035705
- RoHS compliant

This VYH connector is designed for wire-to-board 6.5 mm pitch connector corresponding to large current. Secondary retainer, which prevents from insufficient insertion of contact and coming off contact, may use and large current circuit can be connected certainly and safely.

- Corresponding to large current
- Misinsertion prevention
- Housing lance for contact retention
- Secondary retainer

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. Hole dimensions differ according to the type of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.
**VYH CONNECTOR**

### Contact

**SVYF type**

- Material and Finish
  - Copper alloy, tin-plated (reflow treatment)

### Housing

#### Single-row type

- **Dimensions (mm)**
  - A: 6.5, B: 12.3
  - 1: 9.4

#### Double-row type

- **Dimensions (mm)**
  - A: 6.5, B: 16.4

### Model No. of Applicable wire

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Applicable wire</th>
<th>Insulation O.D. (mm)</th>
<th>Q’ty/reel</th>
</tr>
</thead>
<tbody>
<tr>
<td>SYF-01T-P0.5A</td>
<td>0.13—0.15</td>
<td>1.3—2.5</td>
<td>1,200</td>
</tr>
<tr>
<td>SYF-41T-P0.5A</td>
<td>0.5—1.25</td>
<td>2.0—3.4</td>
<td>4,000</td>
</tr>
<tr>
<td>SYF-61T-P0.5A</td>
<td>0.75—2.0</td>
<td>2.1—3.4</td>
<td>2,000</td>
</tr>
<tr>
<td>*SVYF-41T-P0.5A-13.5</td>
<td>0.5—1.25</td>
<td>2.0—3.4</td>
<td>4,000</td>
</tr>
<tr>
<td>*SVYF-61T-P0.5A</td>
<td>0.75—2.0</td>
<td>2.1—3.6</td>
<td>2,000</td>
</tr>
</tbody>
</table>

**RoHS compliance**

Note: 1. SVYF type contact was developed only for VYH connector in order to improve the prevention of prying.

2. Retainer cannot be used when using 41 type contact AWG#16 and 61 type contact.

3. *Marked product is not TÜV approved.

**Applicable wire**

- **mm² AWG#**
  - 0.13—0.15: 26—20
  - 0.5—1.25: 20—16
  - 0.75—2.0: 18—14

**Material**

- PA 66, UL94V-0, natural (white)

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**VYH CONNECTOR**

### Shrouded header

#### Single-row type

- Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
- Wafer: Glass-filled PBT, UL94V-0, natural (white)

#### Double-row type

- Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
- Wafer: Glass-filled PA66, UL94V-0, natural (ivory)

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

### Retainer

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

### Material and Finish

- **Post**: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
- **Wafer**: Glass-filled PBT, UL94V-0, natural (white)

<table>
<thead>
<tr>
<th>Type</th>
<th>Circuits</th>
<th>Model No.</th>
<th>Dimensions (mm)</th>
<th>Qty/box</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single-row</td>
<td>2</td>
<td>B02B-VYHSK-1</td>
<td>6.5 12.3</td>
<td>400</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>B03B-VYHSK-1</td>
<td>13.0 18.8</td>
<td>500</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>B04B-VYHSK-1</td>
<td>19.5 25.3</td>
<td>200</td>
</tr>
<tr>
<td>Double-row</td>
<td>4</td>
<td>B04B-VYHSK-D-1</td>
<td>6.5 12.3</td>
<td>200</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>B06B-VYHSK-D-1</td>
<td>13.0 18.8</td>
<td>150</td>
</tr>
</tbody>
</table>

**Material and Finish**

- **Post**: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
- **Wafer**: Glass-filled PA66, UL94V-0, natural (ivory)

<table>
<thead>
<tr>
<th>Type</th>
<th>Circuits</th>
<th>Model No.</th>
<th>Dimensions (mm)</th>
<th>Qty/box</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single-row</td>
<td>2</td>
<td>B02B-VYHSK-M-1</td>
<td>6.5 12.3</td>
<td>400</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>B03B-VYHSK-M-1</td>
<td>13.0 18.8</td>
<td>500</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>B04B-VYHSK-M-1</td>
<td>19.5 25.3</td>
<td>200</td>
</tr>
<tr>
<td>Double-row</td>
<td>4</td>
<td>B04B-VYHSK-DM-1</td>
<td>6.5 12.3</td>
<td>200</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>B06B-VYHSK-DM-1</td>
<td>13.0 18.8</td>
<td>150</td>
</tr>
</tbody>
</table>

**Material and Finish**

- **Post**: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
- **Wafer**: Glass-filled PA66, UL94V-0, natural (ivory)

<table>
<thead>
<tr>
<th>Circuits</th>
<th>Model No.</th>
<th>Dimensions (mm)</th>
<th>Qty/bag</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>VYHS-02V-S</td>
<td>6.5 10.3</td>
<td>4,000</td>
</tr>
<tr>
<td>3</td>
<td>VYHS-03V-S</td>
<td>13.0 16.8</td>
<td>3,000</td>
</tr>
<tr>
<td>4</td>
<td>VYHS-04V-S</td>
<td>19.5 23.3</td>
<td>2,000</td>
</tr>
</tbody>
</table>

**Material**

- Glass-filled PBT, UL94V-0, natural (white)

**RoHS compliance**

**Note**: Not TÜV approved.