# ACH Connector

1.2mm pitch/Disconnectable Crimp style connectors

## Specifications

- **Current rating:** 2 A/1 to 3 circuits AC, DC (AWG #28)
  1.5 A/4, 5 circuits AC, DC (AWG #28)
- **Voltage rating:** 50 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:** 100 MΩ min.
- **Withstanding voltage:** 500 VAC/minute
- **Applicable wire:** Conductor size/AWG #32 to #28
  Insulation O.D./0.38 to 0.63 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

## PC Board layout and Assembly layout

### <Single circuit>

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Applicable wire</th>
<th>Insulation O.D. (mm)</th>
<th>Q/Reel</th>
</tr>
</thead>
<tbody>
<tr>
<td>SACH-003G-P0.2</td>
<td>0.05 – 0.28</td>
<td>30 – 28</td>
<td>0.5 – 0.63</td>
</tr>
<tr>
<td>SACH-003G-P0.2B</td>
<td>0.032 – 0.05</td>
<td>32 – 30</td>
<td>0.38 – 0.5</td>
</tr>
</tbody>
</table>

### <2, 3 circuits>

### <4, 5 circuits>

### Contact

- Top entry but side feed type
- Connector for DC power supply
- Corresponding to sucking nozzle of pick and place machine

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. The dimensions above should serve as a guideline. Contact JST for details.

## RoHS compliance

Copper alloy, nickel-undercoated, gold-plated
**ACH CONNECTOR**

### Housing

<table>
<thead>
<tr>
<th>Circuits</th>
<th>Model No.</th>
<th>Dimensions (mm)</th>
<th>Q’ty/ bag</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ACHR-01V-A-S</td>
<td>A: 1.6</td>
<td>2,000</td>
</tr>
<tr>
<td>2</td>
<td>ACHR-02V-S</td>
<td>A: 2.6</td>
<td>1,000</td>
</tr>
<tr>
<td>3</td>
<td>ACHR-03V-S</td>
<td>A: 3.8</td>
<td>1,000</td>
</tr>
<tr>
<td>4</td>
<td>ACHR-04V-A-S</td>
<td>A: 5.0</td>
<td>1,000</td>
</tr>
<tr>
<td>5</td>
<td>ACHR-05V-A-S</td>
<td>A: 6.2</td>
<td>1,000</td>
</tr>
</tbody>
</table>

**Material**
- PBT, UL94V-0, natural (white)

**RoHS compliance**
- As the color identification, the following alphabet shall be put in the underlined part.
- For availability, delivery and minimum order quantity, contact JST.
- ex. ACHR-02V-A-S
  - S...natural (white)
  - K...black

### 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>1</td>
<td>BM01B-ACHSS-A-GAN-ETF</td>
<td>A: 3.2</td>
<td>4,500</td>
</tr>
<tr>
<td>2</td>
<td>BM02B-ACHSS-GAN-ETF</td>
<td>A: 4.2</td>
<td>4,500</td>
</tr>
<tr>
<td>3</td>
<td>BM03B-ACHSS-GAN-ETF</td>
<td>A: 5.4</td>
<td>4,500</td>
</tr>
<tr>
<td>4</td>
<td>BM04B-ACHSS-A-GAN-ETF</td>
<td>A: 6.6</td>
<td>4,500</td>
</tr>
<tr>
<td>5</td>
<td>BM05B-ACHSS-A-GAN-ETF</td>
<td>A: 7.8</td>
<td>4,500</td>
</tr>
</tbody>
</table>

**Material and Finish**
- Contact: Copper alloy, nickel-undercoated, gold-plated (nickel-stripe)
- Housing: Heat resisting resin, UL94V-0, natural (ivory)
- Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

**RoHS compliance**
- This product displays (LF)(SN) on a label.
- As the color identification, the following alphabet shall be put in the underlined part.
- For availability, delivery and minimum order quantity, contact JST.
- ex. BM02B-ACHSS-GAN-ETF
  - S...natural (ivory)
  - K...black