Specifications

- Current rating: 5 A AC, DC J1700 Series 2.0 mm pitch
  (When applying current to 3-circuit and using AWG #20.)
- 7 A AC, DC J2700 Series 2.5 mm pitch
  (When applying current to 3-circuit and using AWG #20.)
- 10 A AC, DC J3700 Series 3.8 mm pitch
  (When applying current to 3-circuit and using AWG #16.)
- Voltage rating: 250 V AC, DC
- Temperature range: -55°C to +105°C
  (including temperature rise in applying electrical current)
- Applicable cable O.D.: Ø 6±0.3 mm (J1700/J2700 Series)
  Ø 7±0.3 mm (J1700/J2700 Series)
  Ø 8±0.3 mm (J3700 Series)
  Ø 9±0.3 mm (J3700 Series)
- Waterproof grade: Grade 5 ingress protection of JIS C 0920
  (IPX5 of IEC 60529)

* Model number of connector kits is only registered to UL standard. (Each part number is not registered.)
* 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 E 60389
**JFA CONNECTOR J1700/2700/3700 SERIES**

### Receptacle contact

- **J1000 Series**
  - [Diagram]
  - Wire range mark: (6.5) (4)
  - Series name: J1 M

- **J2000 Series**
  - [Diagram]
  - Wire range mark: (7) (4)
  - Series name: J2 M

- **J3000 Series**
  - [Diagram]
  - Wire range mark: (7.5) (5.3)
  - Series name: J3 L

### Applicable wire

<table>
<thead>
<tr>
<th>Series</th>
<th>Strip contact Model No.</th>
<th>Size</th>
<th>AWG #</th>
<th>Insulation O.D. (mm)</th>
<th>Qty/reel</th>
</tr>
</thead>
<tbody>
<tr>
<td>J1000</td>
<td>SJ1F-002GF-P0.8</td>
<td>S</td>
<td>0.08-0.20</td>
<td>28-24</td>
<td>0.88-1.43</td>
</tr>
<tr>
<td></td>
<td>SJ1F-01GF-P0.8</td>
<td>M</td>
<td>0.20-0.50</td>
<td>24-20</td>
<td>1.11-1.53</td>
</tr>
<tr>
<td>J2000</td>
<td>SJ2F-002GF-P1.0</td>
<td>S</td>
<td>0.08-0.20</td>
<td>28-24</td>
<td>0.88-1.43</td>
</tr>
<tr>
<td></td>
<td>SJ2F-01GF-P1.0</td>
<td>M</td>
<td>0.20-0.50</td>
<td>24-20</td>
<td>1.11-1.53</td>
</tr>
<tr>
<td>J3000</td>
<td>SJ3F-002GF-P1.8</td>
<td>S</td>
<td>0.08-0.20</td>
<td>28-24</td>
<td>0.88-1.43</td>
</tr>
<tr>
<td></td>
<td>SJ3F-01GF-P1.8</td>
<td>M</td>
<td>0.20-0.50</td>
<td>24-20</td>
<td>1.11-1.53</td>
</tr>
<tr>
<td></td>
<td>SJ3F-41GF-P1.8</td>
<td>L</td>
<td>0.50-1.25</td>
<td>20-16</td>
<td>1.53-2.50</td>
</tr>
</tbody>
</table>

**Material and Finish**
- Copper alloy (superior conductivity), nickel-undercoated, selective gold-plated

**RoHS compliance**

### Crimping machine, Applicator

<table>
<thead>
<tr>
<th>Series</th>
<th>Strip contact Model No.</th>
<th>Crimping machine</th>
<th>Applicator</th>
<th>Hand tools</th>
</tr>
</thead>
<tbody>
<tr>
<td>J1000</td>
<td>SJ1F-002GF-P0.8</td>
<td>Crimp applicator</td>
<td>Mk/SJF/M002 08</td>
<td>YRS-8831</td>
</tr>
<tr>
<td></td>
<td>SJ1F-01GF-P0.8</td>
<td></td>
<td>Mk/SJF/M01 08</td>
<td>YRS-8841</td>
</tr>
<tr>
<td>J2000</td>
<td>SJ2F-002GF-P1.0</td>
<td>Crimp applicator</td>
<td>Mk/SF2F/M002 10</td>
<td>YRS-8851</td>
</tr>
<tr>
<td></td>
<td>SJ2F-01GF-P1.0</td>
<td></td>
<td>Mk/SF2F/M01 10</td>
<td>YRS-8861</td>
</tr>
<tr>
<td>J3000</td>
<td>SJ3F-002GF-P1.8</td>
<td>Crimp applicator</td>
<td>Mk/SJF/M002 20</td>
<td>YRF-882</td>
</tr>
<tr>
<td></td>
<td>SJ3F-01GF-P1.8</td>
<td></td>
<td>Mk/SJF/M01 20</td>
<td>YRF-881</td>
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<tr>
<td></td>
<td>SJ3F-41GF-P1.8</td>
<td></td>
<td>Mk/SF3F/M41 20</td>
<td>YRF-880</td>
</tr>
</tbody>
</table>

### Assembly layout

- **J1700 Series**
  - [Diagram]
  - Dimensions: 20.2 (1)
  - Wire range mark: (6.5)

- **J2700 Series**
  - [Diagram]
  - Dimensions: 21.2 (1)
  - Wire range mark: (6.9)

- **J3700 Series**
  - [Diagram]
  - Dimensions: 27 (1)
  - Wire range mark: (7.5)
## JFA CONNECTOR J1700/2700/3700 SERIES

### Connector kits

#### J1700 Series

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Applicable cable O.D.</th>
<th>Size</th>
<th>Q’ty/box</th>
<th>Part Name</th>
<th>Q’ty</th>
</tr>
</thead>
<tbody>
<tr>
<td>J17-06FMH-6KL-1S-CF</td>
<td>φ6</td>
<td>S</td>
<td>13</td>
<td>Top cover assembly</td>
<td>1</td>
</tr>
<tr>
<td>J17-06FMH-6KL-1M-CF</td>
<td>φ6</td>
<td>M</td>
<td>13</td>
<td>Bottom cover assembly</td>
<td>1</td>
</tr>
<tr>
<td>J17-06FMH-7KL-1M-CF</td>
<td>φ7</td>
<td>S</td>
<td>13</td>
<td>Receptacle housing</td>
<td>1</td>
</tr>
<tr>
<td>J17-06FMH-7KL-1S-CF</td>
<td>φ7</td>
<td>M</td>
<td>13</td>
<td>Seal ring</td>
<td>1</td>
</tr>
<tr>
<td>J17-06FMH-7KL-1M-CF</td>
<td>φ7</td>
<td>M</td>
<td>13</td>
<td>Receptacle contact</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Flat countersunk screw</td>
<td>2</td>
</tr>
</tbody>
</table>

#### J2700 Series

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Applicable cable O.D.</th>
<th>Size</th>
<th>Q’ty/box</th>
<th>Part Name</th>
<th>Q’ty</th>
</tr>
</thead>
<tbody>
<tr>
<td>J27-06FMH-6KL-1S-CF</td>
<td>φ6</td>
<td>S</td>
<td>13</td>
<td>Top cover assembly</td>
<td>1</td>
</tr>
<tr>
<td>J27-06FMH-6KL-1M-CF</td>
<td>φ6</td>
<td>M</td>
<td>13</td>
<td>Bottom cover assembly</td>
<td>1</td>
</tr>
<tr>
<td>J27-06FMH-7KL-1M-CF</td>
<td>φ6</td>
<td>M</td>
<td>13</td>
<td>Receptacle housing</td>
<td>1</td>
</tr>
<tr>
<td>J27-06FMH-7KL-1S-CF</td>
<td>φ6</td>
<td>M</td>
<td>13</td>
<td>Seal ring</td>
<td>1</td>
</tr>
<tr>
<td>J27-06FMH-7KL-1M-CF</td>
<td>φ6</td>
<td>M</td>
<td>13</td>
<td>Receptacle contact</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Flat countersunk screw</td>
<td>2</td>
</tr>
</tbody>
</table>

#### J3700 Series

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Applicable cable O.D.</th>
<th>Size</th>
<th>Q’ty/box</th>
<th>Part Name</th>
<th>Q’ty</th>
</tr>
</thead>
<tbody>
<tr>
<td>J37-06FMH-8KL-1S-CF</td>
<td>φ8</td>
<td>S</td>
<td>13</td>
<td>Top cover assembly</td>
<td>1</td>
</tr>
<tr>
<td>J37-06FMH-8KL-1M-CF</td>
<td>φ8</td>
<td>M</td>
<td>13</td>
<td>Bottom cover assembly</td>
<td>1</td>
</tr>
<tr>
<td>J37-06FMH-8KL-1L-CF</td>
<td>φ8</td>
<td>L</td>
<td>13</td>
<td>Receptacle housing</td>
<td>1</td>
</tr>
<tr>
<td>J37-06FMH-8KL-1S-CF</td>
<td>φ8</td>
<td>L</td>
<td>13</td>
<td>Seal ring</td>
<td>1</td>
</tr>
<tr>
<td>J37-06FMH-8KL-1M-CF</td>
<td>φ8</td>
<td>L</td>
<td>13</td>
<td>Receptacle contact</td>
<td>7</td>
</tr>
<tr>
<td>J37-06FMH-8KL-1L-CF</td>
<td>φ8</td>
<td>L</td>
<td>13</td>
<td>Flat countersunk screw</td>
<td>2</td>
</tr>
</tbody>
</table>

### Connector parts

#### Components

**Top cover assembly**
- J17-6TCA-KR-CF
- J17-7TCA-KR-CF
- J17-6BCA-KR
- J17-7BCA-KR
- J17FSN-06V-K

**Bottom cover assembly**
- J17-6TCA-KR-CF
- J17-7TCA-KR-CF
- J17-6BCA-KR
- J17-7BCA-KR

**Receptacle housing**
- J17-6TCA-KR-CF
- J17-6BCA-KR
- J17FSN-06V-K

**Seal rubber plate**
- J1SP-KN-1

**Seal ring**
- JSR-6GN-1
- JSR-7KN-1

**Receptacle contact**
- SJ1F-002GF-P0.0
- SJ1F-011GF-P0.0

**Flat countersunk screw**
- P1M.6-5KZ-CF
- P1M.6-5KZ-CF

**RoHS compliance**

Note: *Marked products are not approved by UL standard.
### JFA CONNECTOR J1700/2700/3700 SERIES

#### Model number identification

**Receptacle contact**
- **Form:** S...Strip form
- **Series name:** J1...J1000, J2...J2000, J3...J3000
- **Kind of terminal:** F...Receptacle contact
- **Applicable wire range:** 0.02...AWG #28 – #24, 0.01...AWG #24 – #20, 0.01...AWG #20 – #16
- **Surface finish:** GF...Nickel-undercoated, selective gold plated (0.38 µm)
- **Material:** P...Copper alloy
- **Terminal size:** 0.8...J1000, 1.0...J2000, 1.8...J3000

**Kit**
- **Series name:** J17...J1700, J27...J2700, J37...J3700
- **Circuits:** 6
- **Part name:**
- **Applicable cable O.D.:** 6...6, 7...7, 8...8, 9...9
- **Color indication:** K...Black
- **Packaging form:** R...Tray for kit
- **Sub model number:**
- **Size:** S...S type, M...M type, L...L type
- **Hexavalent chromium free**

**Top cover assembly**
- **Series name:** J17...J1700, J27...J2700, J37...J3700
- **Applicable cable O.D.:** 6...6, 7...7, 8...8, 9...9
- **Part name:** TCA...Top cover
- **Color indication:** K...Black
- **Packaging form:** R...Tray
- **Heavalent chromium free**

**Bottom cover assembly**
- **Series name:** J17...J1700, J27...J2700, J37...J3700
- **Applicable cable O.D.:** 6...6, 7...7, 8...8, 9...9
- **Part name:** BCA...Bottom cover
- **Color indication:** K...Black
- **Packaging form:** R...Tray

**Receptacle housing**
- **Series name:** J1...J1700, J2...J2700, J3...J3700
- **Part name:**
- **Rows:** S...Single-row
- **Mounting arrangement:** N...Non-locking type
- **Circuits:** 6
- **Flammability:** V...VL94V-0
- **Color indication:** K...Black

**Seal rubber plate**
- **Series name:** J1...J1700, J2...J2700, J3...J3700
- **Part name:**
- **Color indication:** K...Black
- **Material:**

**Seal ring**
- **Series name:**
- **Part name:**
- **Applicable cable O.D.:** 6...6, 7...7, 8...8, 9...9
- **Color indication:** K...Black
- **Material:**

**Flat countersunk screw**
- **Part name:**
- **Screw size:** M1.6...M1.6 screw, M2...M2 screw
- **Screw length:** 5...5 mm
- **Color indication:** K...Black
- **Surface finish:** Z...Chromate treatment
- **Hexavalent chromium free:**