Specifications

- Current rating: 5 A AC, DC J1700M Series 2.0 mm pitch (Applying current to 3-circuit when AWG #20.)
  7 A AC, DC J2700M Series 2.5 mm pitch (Applying current to 3-circuit when AWG #20.)
  10 A AC, DC J3700M Series 3.8 mm pitch (Applying current to 3-circuit when 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.: 7±0.3 mm (J1700M/J2700M Series) 8±0.3 mm (J3700M Series)
- Waterproof grade: Grade 7 ingress protection of JIS C 0920 (IPX7 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

UL Recognized E 60389
**JFA CONNECTOR J1700M/2700M/3700M SERIES**

### Receptacle contact

**J1000 Series**

![Diagram of J1000 Series](image)

**J2000 Series**

![Diagram of J2000 Series](image)

**J3000 Series**

![Diagram of J3000 Series](image)

### Wire range mark

- **Series name**
- **Wire range mark**

### Material and Finish

Copper alloy (superior conductivity), nickel-undercoated, selective gold-plated

### RoHS compliance

SJ1F-01GF-P0.8
SJ2F-01GF-P1.0
SJ3F-01GF-P1.8
SJ3F-41GF-P1.8

MK/SJ1F/M01-08
MK/SJ2F/M01-10
MK/SF3F/M01-20
MK/SF3F/M41-20

APLMK SJ1F/M01-08
APLMK SJ2F/M01-10
APLMK SF3F/M01-20
APLMK SF3F/M41-20

AP-K2N

### Crimping machine, Applicator

**Series**

- J1000
- J2000
- J3000

**Strip contact Model No.**

- SJ1F-01GF-P0.8
- SJ2F-01GF-P1.0
- SJ3F-01GF-P1.8
- SJ3F-41GF-P1.8

**Applicator**

- AP-K2N

**Hand tools**

- MK/SJ1F/M01-08
- APLMK SJ1F/M01-08
- YRS-8841
- MK/SJ2F/M01-10
- APLMK SJ2F/M01-10
- YRS-8861
- MK/SF3F/M01-20
- APLMK SF3F/M01-20
- YRF-881
- MK/SF3F/M41-20
- APLMK SF3F/M41-20
- YRF-880

### Assembly layout

**J1700M Series**

![Assembly layout for J1700M Series](image)

**J2700M Series**

![Assembly layout for J2700M Series](image)

**J3700M Series**

![Assembly layout for J3700M Series](image)
## JFA CONNECTOR J1700M/2700M/3700M SERIES

### Connector kits

**J1700M Series**

![Diagram of J1700M Series]

**J2700M Series**

![Diagram of J2700M Series]

**J3700M Series**

![Diagram of J3700M Series]

### Connector parts

<table>
<thead>
<tr>
<th>Components</th>
<th>J1700M Series</th>
<th>J2700M Series</th>
<th>J3700M Series</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Model No.</td>
<td>Model No.</td>
<td>Model No.</td>
</tr>
<tr>
<td>Receptacle contact</td>
<td>SJ1F-01GF-P0.8</td>
<td>SJ2F-01GF-P1.0</td>
<td>SJ3F-01GF-P1.8</td>
</tr>
<tr>
<td>Receptacle housing</td>
<td><em>J1FSN-06V-K (YE)</em></td>
<td><em>J2FSN-06V-K (YE)</em></td>
<td><em>J3FSN-06V-K (YE)</em></td>
</tr>
<tr>
<td>Top cover</td>
<td><em>J1MTC-7KA</em></td>
<td><em>J2MTC-7KA</em></td>
<td><em>J3MTC-7KA</em></td>
</tr>
<tr>
<td>Bottom cover</td>
<td><em>J1MBC-7KA</em></td>
<td><em>J2MBC-7KA</em></td>
<td><em>J3MBC-7KA</em></td>
</tr>
<tr>
<td>Cover seal</td>
<td><em>J1MCS-KN</em></td>
<td><em>J2MCS-KN</em></td>
<td><em>J3MCS-KN</em></td>
</tr>
<tr>
<td>Seal rubber plate</td>
<td><em>J1MSP-KN</em></td>
<td><em>J2MSP-KN</em></td>
<td><em>J3MSP-KN</em></td>
</tr>
<tr>
<td>Seal ring</td>
<td><em>JMSR-7KN</em></td>
<td><em>JMSR-7KN</em></td>
<td><em>JMSR-7KN</em></td>
</tr>
<tr>
<td>Clamp ring</td>
<td><em>JMCN-7V-K</em></td>
<td><em>JMCN-7V-K</em></td>
<td><em>JMCN-7V-K</em></td>
</tr>
<tr>
<td>Ring</td>
<td><em>JMR1-7V-K</em></td>
<td><em>JMR1-7V-K</em></td>
<td><em>JMR1-7V-K</em></td>
</tr>
<tr>
<td>Clamp nut</td>
<td><em>JMCN-M16V-K</em></td>
<td><em>JMCN-M16V-K</em></td>
<td><em>JMCN-M16V-K</em></td>
</tr>
<tr>
<td>O ring</td>
<td><em>SM2.5-2KN</em></td>
<td><em>SM2.5-2KN</em></td>
<td><em>SM2.5-2KN</em></td>
</tr>
<tr>
<td>M2x21 sems screw</td>
<td><em>SM2.0-21N</em></td>
<td><em>SM2.0-21N</em></td>
<td><em>SM2.0-21N</em></td>
</tr>
<tr>
<td>M2.5x23 sems screw</td>
<td></td>
<td></td>
<td><em>SM2.5-23N</em></td>
</tr>
<tr>
<td>M1.6x10 sems screw</td>
<td><em>SM1.6-10N</em></td>
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</tr>
<tr>
<td>M2x10 sems screw</td>
<td></td>
<td></td>
<td><em>SM2.0-10N</em></td>
</tr>
</tbody>
</table>

### RoHS compliance

Note: M and L types of receptacle contact are the same packing specification.

## JST Components Model No. Size Size

<table>
<thead>
<tr>
<th>JFA CONNECTOR J1700M/2700M/3700M SERIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Components Model No. Size Size</td>
</tr>
<tr>
<td>J17M-06FMH-7KL-M</td>
</tr>
<tr>
<td>J27M-06FMH-7KL-M</td>
</tr>
<tr>
<td>J37M-06FMH-8KL-ML</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>Q'ty/box No.</th>
<th>Part Name</th>
<th>Q'ty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Receptacle contact (M type)</td>
<td>7</td>
<td>①</td>
<td></td>
</tr>
<tr>
<td>Receptacle housing</td>
<td>1</td>
<td>②</td>
<td></td>
</tr>
<tr>
<td>Top cover</td>
<td>1</td>
<td>③</td>
<td></td>
</tr>
<tr>
<td>Bottom cover</td>
<td>1</td>
<td>④</td>
<td></td>
</tr>
<tr>
<td>Cover seal</td>
<td>1</td>
<td>⑤</td>
<td></td>
</tr>
<tr>
<td>Seal rubber plate</td>
<td>1</td>
<td>⑥</td>
<td></td>
</tr>
<tr>
<td>Seal ring</td>
<td>1</td>
<td>⑦</td>
<td></td>
</tr>
<tr>
<td>Clamp ring</td>
<td>1</td>
<td>⑧</td>
<td></td>
</tr>
<tr>
<td>Ring</td>
<td>1</td>
<td>⑨</td>
<td></td>
</tr>
<tr>
<td>Clamp nut</td>
<td>1</td>
<td>⑩</td>
<td></td>
</tr>
<tr>
<td>O ring</td>
<td>2</td>
<td>⑪</td>
<td></td>
</tr>
<tr>
<td>M2x21 sems screw</td>
<td>2</td>
<td>⑫</td>
<td></td>
</tr>
<tr>
<td>M1.6x10 sems screw</td>
<td>2</td>
<td>⑬</td>
<td></td>
</tr>
</tbody>
</table>

RoHS compliance

Note: *Marked products are not approved by UL standard.
### Model number identification

#### Receptacle contact

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
</table>
| J1 S F - 01 GF - P 0.8 | Form: S...Strip form  
Series name: J1...J1000, J2...J2000, J3...J3000  
Applicable wire range: 01...AWG #24, 20, 41...AWG #20, 16  
Surface finish: GF...Nickel-undercoated, selective gold-plated (0.38um)  
Material: P...Copper alloy  
Terminal size: 0.8...J1000, 1.0...J2000, 1.8...J3000 |

#### Receptacle housing

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
</table>
| J1 F S N - 06 V - K (YE) | Series name: J1...J1700, J2...J2700, J3...J3700  
Part name: Rows: S...Single-row  
Mounting arrangement: N...Non-locking type  
Circuits: 6 |

#### Top cover/Bottom cover

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
</table>
| J1M TC - 7 K A | Series name: J1M...J1700M, J2M...J2700M, J3M...J3700M  
Part name: TC...Top cover, BC...Bottom cover  
Applicable cable O.D.: 7...8 |

#### Seal ring

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
</table>
| J M SR - 7 K N | Series name:  
Part name:  
Applicable cable O.D.: 7...8, 8...8 |

#### Clamp ring/Ring

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
</table>
| J M CR - 7 V - K | Series name:  
Part name: CR...Clamp ring, RI...Ring  
Applicable cable O.D.: 7...8, 8...8  
Flammability: V...UL94V-0  
Color indication: K...Black |

#### Clamp nut

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
</table>
| J M CN - M16 V - K | Series name:  
Part name:  
Screw size: M1.6...M1.6 screw  
M18...M18 screw  
Flammability: V...UL94V-0  
Color indication: K...Black |

#### O ring

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
</table>
| J RG - 2 K N (YE) | Series name:  
Part name:  
Part size: 2...For M2 screw  
2.5...For M2.5 screw  
Color indication: K...Black  
Material:  
Sub model No.:  
Screws length: 10...10 mm, 12...12 mm, 21...21 mm, 23...23 mm  
Surface finish: N...Nickel-plated |

#### Kit

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
</table>
| J17M - 06 FMH - 7 K L - M | Series name: J17M...J1700M, J27M...J2700M, J37M...J3700M  
Circuits: 6  
Part name:  
Applicable cable O.D.: 7...8, 8...8  
Color indication: K...Black  
Packaging form: L...Tray for kit  
Size: M...M type, ML...M, L types (Same packing spec.) |