**FRC3 Series**

**High Current Version for 2-Piece Connectors**

- FRC3 series is of the current capacity 3A and contact pitch 3.175mm.

**FEATURE**

- Number of contacts: 16, 20, 34
- Applicable cable: Cable pitch 1.59mm AWG 24 (solid and stranded)

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**SPECIFICATION**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage rating</td>
<td>250V AC (rms)</td>
</tr>
<tr>
<td>Current rating</td>
<td>3A/contact</td>
</tr>
<tr>
<td>Dielectric withstanding voltage</td>
<td>500V AC (rms) for 1 minute</td>
</tr>
<tr>
<td>Insulation resistance</td>
<td>1000MΩ min. at 500V DC</td>
</tr>
<tr>
<td>Contact resistance</td>
<td>15mΩ max.</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>−55℃ to +105℃</td>
</tr>
</tbody>
</table>

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**MATERIAL/FINISH**

<table>
<thead>
<tr>
<th>Component</th>
<th>Material/Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>Socket Housing</td>
<td>Polycarbonate resin (UL94V−0)</td>
</tr>
<tr>
<td>Cover</td>
<td>Polycarbonate resin (UL94V−0)</td>
</tr>
<tr>
<td>Contact</td>
<td>Copper alloy/Gold over Nickel plating</td>
</tr>
<tr>
<td>Strain Relief</td>
<td>Polyamide resin (UL94V−0)</td>
</tr>
<tr>
<td>Header Block</td>
<td>PBT resin (UL94V−0)</td>
</tr>
<tr>
<td>Header Contact</td>
<td>Copper alloy/Gold over Nickel plating</td>
</tr>
</tbody>
</table>
**Socket**

**FRC3-A020-10S**

- **COVER STYLE**
  - 0 : Open end Cover

- **NO. OF CONTACTS**
  - 16, 20, 34

- **CONTACT PLATING**
  - 1 : 0.8μ Gold over Nickel
  - 2 : 0.4μ Gold over Nickel
  - 3 : Gold flash over Nickel

- **STRAIN RELIEF**
  - No designation : Without strain relief (for header with short locks)
  - S : With strain relief (for header with long locks)

- **POLARIZING KEY**
  - 0 : 16, 20, 34・・・・・・1 key

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**Strain Relief**

**FRC3-20-04**

- **NO. OF CONTACTS**
  - 16, 20, 34

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**STRAIN RELIEF**

<table>
<thead>
<tr>
<th>NO. OF CONTACTS</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>32.03</td>
<td>22.225</td>
</tr>
<tr>
<td>20</td>
<td>38.38</td>
<td>28.575</td>
</tr>
<tr>
<td>34</td>
<td>60.60</td>
<td>50.800</td>
</tr>
</tbody>
</table>
**FRC3 Series**

**Header**

**FRC3-C20S11-0L**

- **NO. OF CONTACTS**: 16, 20, 34
- **CONTACT TAIL STYLE**:
  - L: Right angle
  - S: Straight
- **CONTACT TAIL LENGTH**:
  - 1: 3.6mm
  - 2: 15mm
- **LOCK LEVER**:
  - L: Long (for socket with strain relief)
  - S: Short (for socket without strain relief)
- **KEY SLOT**:
  - 0: 16, 20, 34 ······ 1 key
- **CONTACT PLATING**:
  - 1: 0.8μ Gold over Nickel
  - 2: 0.4μ Gold over Nickel
  - 3: Gold flash over Nickel

### Dimensions

<table>
<thead>
<tr>
<th>NO. OF CONTACTS</th>
<th>A (mm)</th>
<th>B (mm)</th>
<th>C (mm)</th>
<th>D (mm)</th>
<th>E (mm)</th>
<th>F (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>46.56</td>
<td>36.60</td>
<td>22.225</td>
<td>32.23</td>
<td>57.20</td>
<td>63.6</td>
</tr>
<tr>
<td>20</td>
<td>52.90</td>
<td>39.88</td>
<td>28.575</td>
<td>38.58</td>
<td>63.50</td>
<td>70.0</td>
</tr>
<tr>
<td>34</td>
<td>75.13</td>
<td>62.10</td>
<td>50.800</td>
<td>60.80</td>
<td>85.70</td>
<td>92.2</td>
</tr>
</tbody>
</table>
### PCB Mounting Dimension

**Cable Assembly Tools**

Cable cutting tool P/N: 357J-4256, Termination tool P/N: 357J-4674D (press)
P/N: 357J-4669 (attachment)

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**Polarizing Key for Sockets**

**HU-005**

Material: Polyamide resin (UL94V-0)

The HU-005 is attached to the socket.
A pair of HU-005 consists of an HU-005-1 and an HU-005-2.

**HU-005-1**

**HU-005-2**

**HU-006**

Material: Polycarbonate resin (UL94V-0)

The HU-006 is attached to header.

**HU-006**

Note: If connectors having same number of contacts are used side by side, wrong insertion between adjacent connectors can be prevented.

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**Key Guide for Header**

**HU-006**

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