## Connectors > Power Connectors > Rectangular Power > Rectangular Power Connectors

### Features

#### Product Type Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Type</td>
<td>Housing</td>
</tr>
<tr>
<td>Housing Type</td>
<td>Plug</td>
</tr>
<tr>
<td>Connector System</td>
<td>Wire-to-Board, Wire-to-Panel, Wire-to-Wire</td>
</tr>
<tr>
<td>Sealable</td>
<td>No</td>
</tr>
<tr>
<td>Connector &amp; Contact Terminates To</td>
<td>Wire &amp; Cable</td>
</tr>
<tr>
<td>Contact Type</td>
<td>Socket</td>
</tr>
</tbody>
</table>

#### Configuration Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Positions</td>
<td>3</td>
</tr>
<tr>
<td>Number of Power Positions</td>
<td>0</td>
</tr>
<tr>
<td>Number of Signal Positions</td>
<td>1</td>
</tr>
<tr>
<td>Number of Rows</td>
<td>1</td>
</tr>
</tbody>
</table>

#### Electrical Characteristics

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Voltage</td>
<td>250 VDC</td>
</tr>
</tbody>
</table>

#### Contact Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact Current Rating (Max)</td>
<td>9 A</td>
</tr>
<tr>
<td>Contact Retention</td>
<td>With</td>
</tr>
</tbody>
</table>

#### Termination Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Termination Method to Wire &amp; Cable</td>
<td>Crimp</td>
</tr>
</tbody>
</table>

### Mechanical Attachment
### Panel Mount Feature
- Without

### Mating Retention
- With

### Mating Retention Type
- Positive Lock

### Housing Features
- **Centerline (Pitch)**: 4.2 mm [0.165 in]
- **UL Flammability Rating**: UL 94V-0
- **Housing Color**: Black
- **Housing Material**: PA 66

### Dimensions
- **Wire Size**: 0.12 – 8 mm²
- **Row-to-Row Spacing**: 4.19 mm [0.165 in]
- **Width**: 12.95 mm [0.51 in]
- **Accepts Wire Insulation Diameter Range**: 2.92 mm [0.115 in]
- **Height**: 12.95 mm [0.51 in]
- **Length**: 21.34 mm [0.84 in]

### Usage Conditions
- **Operating Temperature Range**: -55 – 85 °C [-67 – 185 °F]

### Operation/Application
- **Circuit Application**: Power & Signal

### Industry Standards
- **Agency/Standard Number**: E28476
- **Agency/Standard**: CSA, UL
- **UL Rating**: Recognized
- **CSA File Number**: LR7189

### Packaging Features
- **Packaging Method**: Box
- **Packaging Quantity**: 2000

### Product Compliance
- **EU RoHS Directive 2011/65/EU**: Compliant
- **EU ELV Directive 2000/53/EC**: Compliant

For support call +1 800 522 6752
China RoHS 2 Directive MIIT Order No 32, 2016 | No Restricted Materials Above Threshold

Candidate List Declared Against: JUL 2019 (201)
1,6,7,8,9,14,15,16,17,18,18-dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene (Dechlorane Plus) (20% in Component Part)

Candidate List Declared Against: JUL 2019 (201)

Halogen Content | Not Low Halogen - contains Br or Cl > 900 ppm.

Solder Process Capability | Wave solder capable to 240°C

Product Compliance Disclaimer
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DiBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulations, TE’s information on SVHC in articles for this part number is still based on the European Chemical Agency (ECHA) ‘Guidance on requirements for substances in articles’ (Version: 2, April 2011), applying the 0.1% weight on weight concentration threshold at the finished product level. TE is aware of the European Court of Justice ruling of September 10th, 2015 also known as O5A (Once An Article Always An Article) stating that, in case of ‘complex object’, the threshold for a SVHC must be applied to both the product as a whole and simultaneously to each of the articles forming part of its composition. TE has evaluated this ruling based on the new ECHA “Guidance on requirements for substances in articles” (June 2017, version 4.0) and will be updating its statements accordingly.

Compatible Parts

<table>
<thead>
<tr>
<th>TE Model / Part #</th>
<th>1-640508-0</th>
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<tbody>
<tr>
<td>03P MR II CAP HSG V0 RED</td>
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<table>
<thead>
<tr>
<th>TE Model / Part #</th>
<th>2-640498-2</th>
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<tbody>
<tr>
<td>03P MR HDR ASSY VO RED LF</td>
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<table>
<thead>
<tr>
<th>TE Model / Part #</th>
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</thead>
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<tr>
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<table>
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<tr>
<th>TE Model / Part #</th>
<th>640498-1</th>
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</thead>
<tbody>
<tr>
<td>03P MR HDR ASSY VO RED</td>
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</tr>
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Documents

Product Drawings
03P MR II PLUG HSG V0 RED
English

CAD Files
Customer View Model
ENG_CVM_1-640518-0_F.2d_dxf.zip
English

Customer View Model
ENG_CVM_1-640518-0_F.3d_igs.zip
English

Customer View Model
ENG_CVM_1-640518-0_F.3d_stp.zip
English

3D PDF
English

Datasheets & Catalog Pages
SOFT_SHELL_PIN_AND_SOCKET_CONNECTORS_CATALOG
English

Product Specifications
Application Specification
English

Product Environmental Compliance
MD_1-640518-0_021920182237_dmtc
English

Instruction Sheets
Instruction Sheet (U.S.)
English

AMP MINIATURE RECTANGULAR II (MRII) CONNECTORS
Agency Approvals
Agency Approval Document
English