

1-640521-0 ✓ ACTIVE

AMP | AMP MR

TE Internal #: 1-640521-0

Rectangular Power Connectors, Housing, Plug, Wire-to-Panel /  
Wire-to-Board / Wire-to-Wire, 9 Position, 4.2 mm [.165 in]

Centerline, AMP MR

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Connectors > Power Connectors > Rectangular Power > Rectangular Power Connectors



Rectangular Power Connector Type: **Housing**

Connector & Housing Type: **Plug**

Connector System: **Wire-to-Board, Wire-to-Panel, Wire-to-Wire**

Number of Positions: **9**

Centerline (Pitch): **4.2 mm [.165 in]**

## Features

### Product Type Features

|                                   |  |
|-----------------------------------|--|
| Rectangular Power Connector Type  | Housing                                    |
| Connector & Housing Type          | Plug                                       |
| Connector System                  | Wire-to-Board, Wire-to-Panel, Wire-to-Wire |
| Sealable                          | No   |
| Connector & Contact Terminates To | Wire & Cable                               |

### Configuration Features

|                            |   |
|----------------------------|---|
| Number of Positions        | 9 |
| Number of Power Positions  | 0 |
| Number of Signal Positions | 9 |
| Number of Rows             | 3 |

### Electrical Characteristics

|                   |         |
|-------------------|---------|
| Operating Voltage | 250 VDC |
|-------------------|---------|

### Contact Features

|                              |     |
|------------------------------|-----|
| Contact Current Rating (Max) | 9 A |
|------------------------------|-----|



|                                  |      |
|----------------------------------|------|
| Contact Retention Within Housing | With |
|----------------------------------|------|

|              |        |
|--------------|--------|
| Contact Type | Socket |
|--------------|--------|

### Termination Features

|                                    |       |
|------------------------------------|-------|
| Termination Method to Wire & Cable | Crimp |
|------------------------------------|-------|

### Mechanical Attachment

|                     |         |
|---------------------|---------|
| Panel Mount Feature | Without |
|---------------------|---------|

|                         |             |
|-------------------------|-------------|
| Connector Mounting Type | Panel Mount |
|-------------------------|-------------|

|                  |      |
|------------------|------|
| Mating Retention | With |
|------------------|------|

|                       |               |
|-----------------------|---------------|
| Mating Retention Type | Positive Lock |
|-----------------------|---------------|

### Housing Features

|                    |                  |
|--------------------|------------------|
| Centerline (Pitch) | 4.2 mm [.165 in] |
|--------------------|------------------|

|               |       |
|---------------|-------|
| Housing Color | Black |
|---------------|-------|

|                  |       |
|------------------|-------|
| Housing Material | PA 66 |
|------------------|-------|

### Dimensions

|           |                          |
|-----------|--------------------------|
| Wire Size | .12 – .8 mm <sup>2</sup> |
|-----------|--------------------------|

|                    |                   |
|--------------------|-------------------|
| Row-to-Row Spacing | 4.19 mm [.165 in] |
|--------------------|-------------------|

|       |                   |
|-------|-------------------|
| Width | 21.34 mm [.84 in] |
|-------|-------------------|

|  |                   |
|--|-------------------|
| Accepts Wire Insulation Diameter Range | 2.92 mm [.115 in] |
|--|-------------------|

|        |                   |
|--------|-------------------|
| Height | 12.95 mm [.51 in] |
|--------|-------------------|

|        |                   |
|--------|-------------------|
| Length | 21.34 mm [.84 in] |
|--------|-------------------|

### Usage Conditions

|                             |                            |
|-----------------------------|----------------------------|
| Operating Temperature Range | -55 – 85 °C [-67 – 185 °F] |
|-----------------------------|----------------------------|

### Operation/Application

|                     |                |
|---------------------|----------------|
| Circuit Application | Power & Signal |
|---------------------|----------------|

### Industry Standards

|                        |          |
|------------------------|----------|
| UL Flammability Rating | UL 94V-0 |
|------------------------|----------|

|                  |                               |
|------------------|-------------------------------|
| Glow Wire Rating | Standard Part - Not Glow Wire |
|------------------|-------------------------------|

|                        |        |
|------------------------|--------|
| Agency/Standard Number | E28476 |
|------------------------|--------|

|                 |         |
|-----------------|---------|
| Agency/Standard | CSA, UL |
|-----------------|---------|

|           |            |
|-----------|------------|
| UL Rating | Recognized |
|-----------|------------|

|                 |        |
|-----------------|--------|
| CSA File Number | LR7189 |
|-----------------|--------|



### Packaging Features

|                    |      |
|--------------------|------|
| Packaging Method   | Box  |
| Packaging Quantity | 1000 |

### Product Compliance

[For compliance documentation, visit the product page on TE.com>](#)

|   |   |
|---|---|
| EU RoHS Directive 2011/65/EU                  | Compliant   |
| EU ELV Directive 2000/53/EC                   | Compliant   |
| China RoHS 2 Directive MIIT Order No 32, 2016 | No Restricted Materials Above Threshold   |
| EU REACH Regulation (EC) No. 1907/2006        | Current ECHA Candidate List: JUNE 2022 (224)<br>Candidate List Declared Against: JUNE 2022 (224)<br>Does not contain REACH SVHC |
| Halogen Content                               | Not Low Halogen - contains Br or Cl > 900 ppm.  |
| Solder Process Capability                     | Wave solder capable to 240°C  |

#### Product Compliance Disclaimer

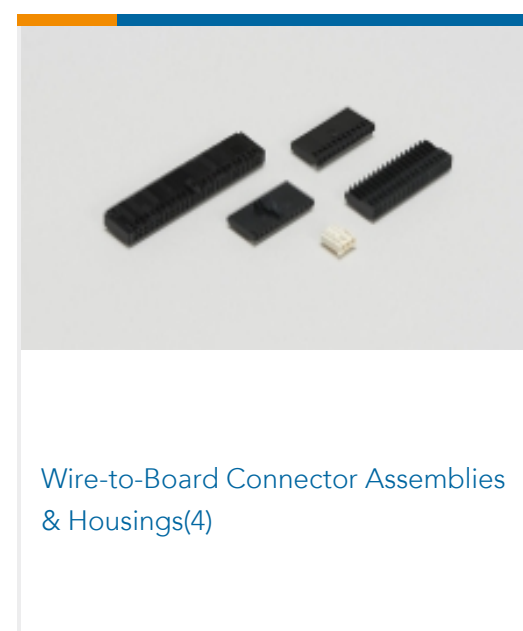
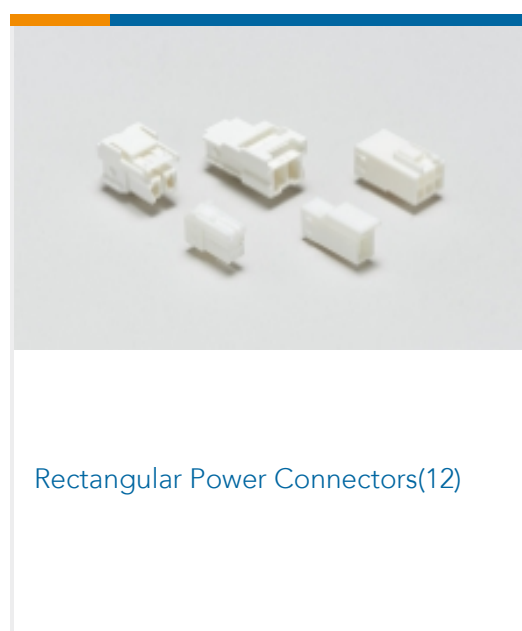
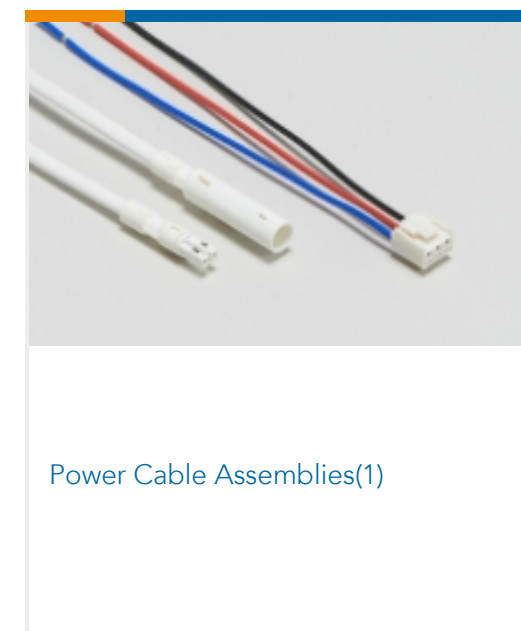
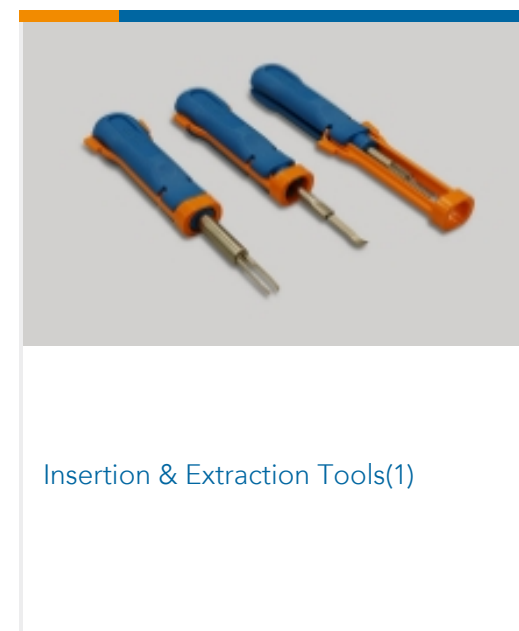
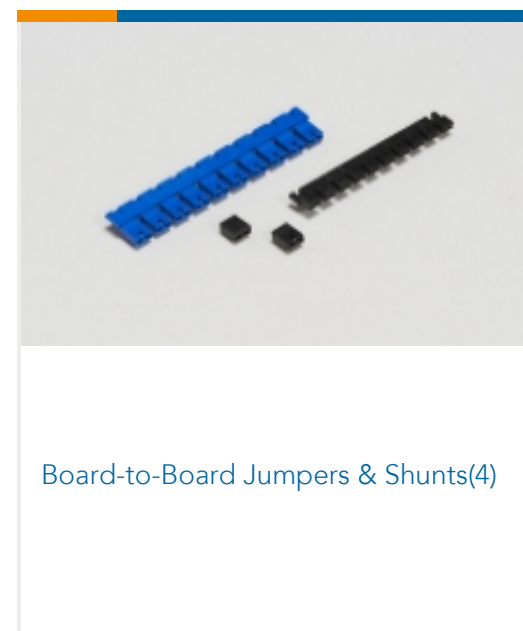
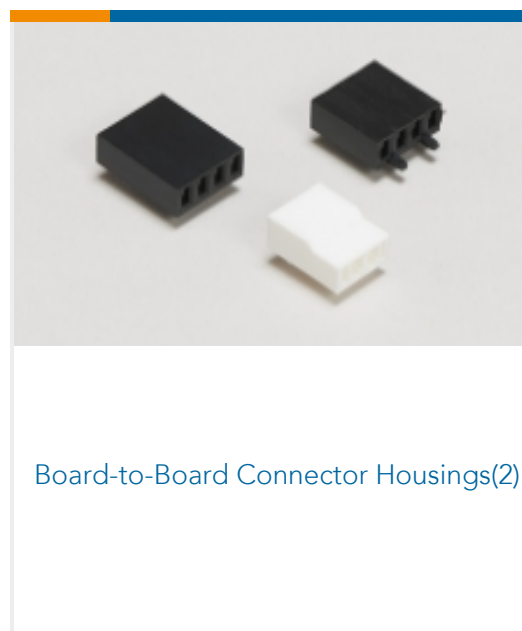
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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 Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>

### Compatible Parts

|  |  |  |   |
|--|--|--|---|
|  <p>TE Part # 1-640511-0<br/>09P MR II CAP HSG V0</p> |  <p>TE Part # 1-350522-9<br/>09P MR STR/REL HNG BLK</p> |  <p>TE Part # 640501-2<br/>09P MR HDR ASSY V0</p> |  <p>TE Part # 2-640501-2<br/>09P MR HDR ASSY VO LF</p> |
|--|--|--|---|



## Also in the Series | AMP MR



## Documents

### CAD Files

#### 3D PDF

English

#### Customer View Model

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### Datasheets & Catalog Pages

[SOFT\\_SHELL\\_PIN\\_AND\\_SOCKET\\_CONNECTORS\\_CATALOG](#)

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### Product Specifications

[Application Specification](#)

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### Product Environmental Compliance

[Product Compliance](#)

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### Instruction Sheets

[Instruction Sheet \(U.S.\)](#)

English

[AMP\\* MINIATURE RECTANGULAR II \(MRII\) CONNECTORS](#)

English

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### Agency Approvals

[Agency Approval Document](#)

English