



Connectors > Power Connectors > Rectangular Power > Rectangular Power Connectors



Rectangular Power Connector Type: **Header**

Connector & Housing Type: **Plug**

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

Number of Positions: **6**

Centerline (Pitch): **4.14 mm [ .162 in ]**

Features

Product Type Features

|                                   |                       |
|-----------------------------------|-----------------------|
| Header Type                       | Fully Shrouded        |
| Rectangular Power Connector Type  | Header                |
| Connector & Housing Type          | Plug                  |
| Connector System                  | Wire-to-Board         |
| Sealable                          | No                    |
| Connector & Contact Terminates To | Printed Circuit Board |

Configuration Features

|                            |          |
|----------------------------|----------|
| Number of Positions        | 6        |
| PCB Mount Orientation      | Vertical |
| Number of Power Positions  | 6        |
| Number of Signal Positions | 0        |
| Number of Rows             | 2        |

Electrical Characteristics

|                   |         |
|-------------------|---------|
| Operating Voltage | 600 VDC |
|-------------------|---------|



Contact Features

|                                                |                  |
|------------------------------------------------|------------------|
| Contact Layout                                 | Matrix           |
| Contact Base Material                          | Brass            |
| Contact Current Rating (Max)                   | 9.5 A            |
| Contact Retention Within Housing               | Without          |
| Contact Type                                   | Pin              |
| PCB Contact Termination Area Plating Material  | Tin              |
| Contact Mating Area Plating Material           | Gold             |
| Contact Mating Area Plating Material Thickness | .76 µm[30 µin]   |
| Contact Termination Area Plating Thickness     | 3.81 µm[150 µin] |

Termination Features

|                                             |                       |
|---------------------------------------------|-----------------------|
| Termination Post & Tail Length              | 4.45 mm[.175 in]      |
| Termination Method to Printed Circuit Board | Through Hole - Solder |

Mechanical Attachment

|                          |              |
|--------------------------|--------------|
| Strain Relief            | Without      |
| Mating Alignment Type    | Polarization |
| Mating Alignment         | With         |
| PCB Mount Alignment      | Without      |
| Panel Mount Feature      | Without      |
| PCB Mount Retention      | With         |
| PCB Mount Retention Type | Boardlock    |
| Connector Mounting Type  | Board Mount  |
| Mating Retention         | With         |
| Mating Retention Type    | Latch        |

Housing Features

|                    |                  |
|--------------------|------------------|
| Centerline (Pitch) | 4.14 mm[.162 in] |
| Housing Color      | White            |
| Housing Material   | Nylon            |

Dimensions

|                             |                   |
|-----------------------------|-------------------|
| Row-to-Row Spacing          | 4.14 mm[.162 in]  |
| PCB Thickness (Recommended) | .06 mm[1.57 in]   |
| Width                       | 11.89 mm[.468 in] |



|        |                   |
|--------|-------------------|
| Height | 13.49 mm[.531 in] |
| Length | 13.97 mm[.55 in]  |

Usage Conditions

|                             |                            |
|-----------------------------|----------------------------|
| Operating Temperature Range | -55 – 105 °C[-67 – 221 °F] |
|-----------------------------|----------------------------|

Operation/Application

|                     |       |
|---------------------|-------|
| Circuit Application | Power |
|---------------------|-------|

Industry Standards

|                        |                               |
|------------------------|-------------------------------|
| UL Flammability Rating | UL 94V-0                      |
| Glow Wire Rating       | Standard Part - Not Glow Wire |
| VDE Tested             | No                            |

Packaging Features

|                    |     |
|--------------------|-----|
| Packaging Method   | Bag |
| Packaging Quantity | 200 |

Other

|              |              |
|--------------|--------------|
| For Use With | Plug Housing |
|--------------|--------------|

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: JAN 2022 (223)<br>Candidate List Declared Against: JAN 2022 (223)<br>Does not contain REACH SVHC |
| Halogen Content                               | Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free                                           |
| Solder Process Capability                     | Wave solder capable to 265°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

TE Part # 172168-1  
6 CIR UNIV M-N-L PLUG

TE Part # 794895-1  
6 CIR MINI UMNL RND WIRE HOLES

Also in the Series | Mini-Universal MATE-N-LOK

Connector Contacts(11)

Insertion & Extraction Tools(1)

PCB Headers & Receptacles(1)

Power Contacts(85)

Rectangular Backshells & Clamps(2)

Rectangular Boots & Strain Relief(2)

Rectangular Connector Keying Plugs(2)

Rectangular Connector Locking(2)

Rectangular Connector Seals(20)

Rectangular Power Connectors(283)

Customers Also Bought



TE Part #1-5747871-3  
09 PLUG SP/FMS SCRLK

TE Part #1888652-1  
2X1 OFFSET STACK JACK

TE Part #1-770873-1  
03P MINI UMNL HDR ASSY AU LF

TE Part #794707-1  
04P UMNL CAP HSG,BLACK

TE Part #7-1625867-3  
RP 1J 0.166W 35R7 0.1% 25PPM 1K RL

TE Part #213667-1  
18-10 CPC SQ FLNG RCPT REV SEX

TE Part #1-794073-1  
08P MINI UMNL HDR W/O DH AU LF

TE Part #1-794075-1  
16P MINI UMNL HDR W/O DH AU LF

TE Part #1-1393115-7  
KUIP-14D15-24=KU

Documents

Product Drawings

06P MINI UMNL HDR ASSY AU LF

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_1-770875-1\_H.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_1-770875-1\_H.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_1-770875-1\_H.3d\_stp.zip

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Datasheets & Catalog Pages



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

English

[1-1773458-0\\_MINI\\_UNIVERSAL\\_MATE\\_N\\_LOK\\_CONNECTOR\\_SYSTEM\\_QRG](#)

English

---

[Product Specifications](#)

[Application Specification](#)

English

---

[Product Environmental Compliance](#)

[MD\\_1-770875-1\\_09252018641\\_dmtec](#)

English

[MD\\_1-770875-1\\_09252018641\\_dmtec](#)

English

---

[Instruction Sheets](#)

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

English

---

[Agency Approvals](#)

[UL](#)

English