



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): **6.35 mm [ .25 in ]**

Features

Product Type Features

|                                   |                       |
|-----------------------------------|-----------------------|
| 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 Rows            | 1        |

Electrical Characteristics

|                   |         |
|-------------------|---------|
| Operating Voltage | 600 VAC |
|-------------------|---------|

Contact Features

|                |        |
|----------------|--------|
| Contact Layout | Inline |
|----------------|--------|



|                                                |                               |
|------------------------------------------------|-------------------------------|
| Multiple Contact Types                         | Without                       |
| Contact Current Rating (Max)                   | 12 A, 19 A                    |
| Contact Retention Within Housing               | Without                       |
| Contact Type                                   | Pin                           |
| PCB Contact Termination Area Plating Material  | Pre-Tin                       |
| Contact Mating Area Plating Material           | Pre-Tin                       |
| Contact Mating Area Plating Material Thickness | 3.81 – 5.08 µm[150 – 200 µin] |

Termination Features

|                                             |                       |
|---------------------------------------------|-----------------------|
| Termination Post & Tail Length              | 3.69 mm[.145 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     | Without       |
| Connector Mounting Type | Board Mount   |
| Mating Retention        | With          |
| Mating Retention Type   | Positive Lock |

Housing Features

|                    |                 |
|--------------------|-----------------|
| Centerline (Pitch) | 6.35 mm[.25 in] |
| Housing Color      | White           |
| Housing Material   | Nylon           |

Dimensions

|                             |                  |
|-----------------------------|------------------|
| PCB Thickness (Recommended) | 2.36 mm[.093 in] |
|-----------------------------|------------------|

Usage Conditions

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

Operation/Application

|                              |         |
|------------------------------|---------|
| Assembly Integration Feature | Without |
| Circuit Application          | Power   |

Industry Standards



|                        |                               |
|------------------------|-------------------------------|
| CSA Rating             | Certified                     |
| 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                        |
| VDE Tested             | Yes                           |

Packaging Features

|                    |           |
|--------------------|-----------|
| Packaging Method   | Bag & Box |
| Packaging Quantity | 100       |

Other

|              |                                                 |
|--------------|-------------------------------------------------|
| For Use With | Mates with Plug Housing (Using Socket Contacts) |
|--------------|-------------------------------------------------|

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: JAN 2022 (223)<br>SVHC > Threshold:<br>Not Yet Reviewed |
| 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

|                                                                 |                                                        |                                                             |                                                        |
|-----------------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------|
| <p>TE Part # 640581-1<br/>06P UMNL PLUG HSG</p>                 | <p>TE Part # 643585-2<br/>06P UMNL STR/REL NATL</p>    | <p>TE Part # 1-350589-0<br/>STR/REL CLAMP NATL</p>          | <p>TE Part # 350811-1<br/>STR/REL CLAMP</p>            |
| <p>TE Part # 794275-1<br/>06P UMNL INTERFACE SEAL</p>           | <p>TE Part # 794276-1<br/>06P UMNL WIRE SEAL</p>       | <p>TE Part # 794993-1<br/>06P UMNL BLACK INTERFACE SEAL</p> | <p>TE Part # 1863025-1<br/>UNIVERSAL MNL 6-WAY CAP</p> |
| <p>TE Part # 194234-1<br/>HDR ASSY,MNL,4 POS,LUBRICATED</p>     | <p>TE Part # 643253-1<br/>06P UMNL ASSY MOD HSG VO</p> | <p>TE Part # 643313-1<br/>06P UMNL STR/REL</p>              | <p>TE Part # 643313-2<br/>06P UMNL STR/REL</p>         |
| <p>TE Part # 643585-1<br/>06P UMNL STR/REL &amp; INSRT NATL</p> |                                                        |                                                             |                                                        |

Also in the Series | Universal MATE-N-LOK



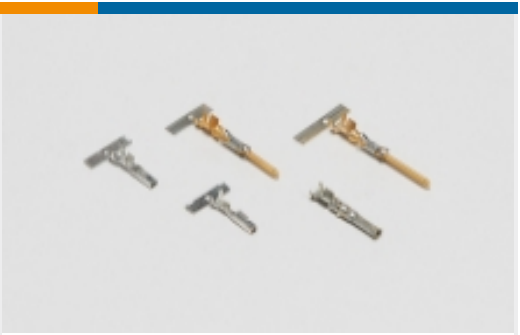
Circular Power Connectors(2)



Connector Contacts(11)



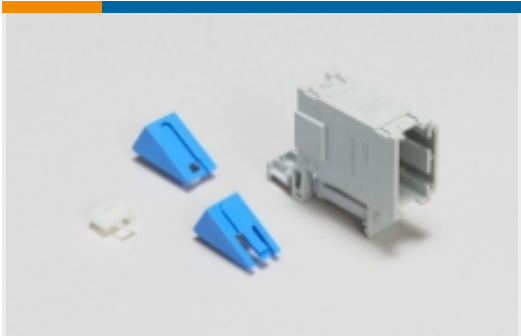
Insertion & Extraction Tools(4)



Power Contacts(207)



Rectangular Boots & Strain Relief(35)



Rectangular Connector Adapters(7)



Rectangular Connector Hardware(1)



Rectangular Connector Housings(2)



Rectangular Connector Keying Plugs(3)



Rectangular Connector Locking(4)

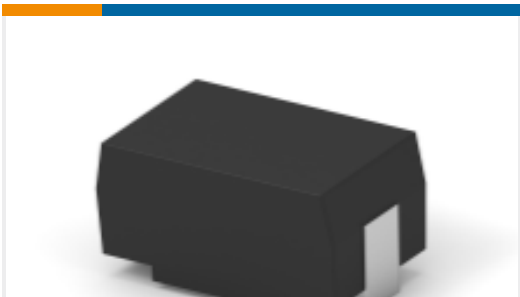


Rectangular Connector Seals(26)

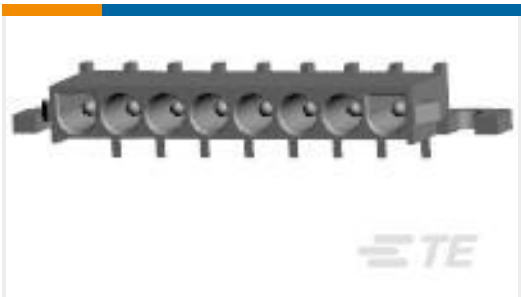


Rectangular Power Connectors(729)

Customers Also Bought



TE Part #2-1879011-7  
SMD Power Resistor: 7 Watt, 200-2M Ohm



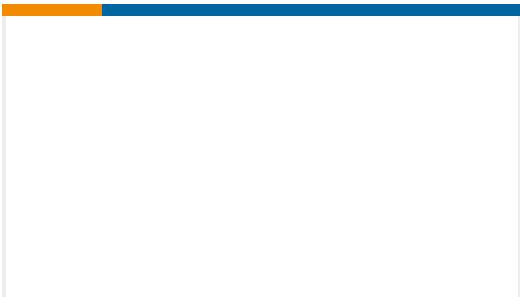
TE Part #640584-3  
08P UMNL HDR ASSY R/A 94VO LF



TE Part #1776313-3  
TSB200003DS=EUROPA T-BL,14.5MM



TE Part #1-102567-1  
20 MODII 2PC HDR DR SHRD .100



TE Part #2108883-1  
PACKG WITH SEALING FOR WP 5POS STD/ON



TE Part #7-2176092-3  
RP 2A 0.25W 4K32 0.1% 25PPM 1K RL



TE Part #5-1614884-1  
CPF 0805 300R 0.1% 25PPM 1K RL



TE Part #1-102692-5  
16 MODII 2PC HDR DR SHRD

Documents





Product Drawings

06P UMNL PIN HDR ASSY 94VO

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_641831-1\_N.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_641831-1\_N.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_641831-1\_N.3d\_stp.zip

English

3D PDF

English

Customer View Model

ENG\_CVM\_641831-1\_M1.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_641831-1\_M1.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_641831-1\_M1.3d\_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\_SOCKET\_CONNECTORS\_STANDARD\_DENSITY

English

Product Specifications

Application Specification

English

Product Environmental Compliance

MD\_641831-1\_02122018920\_dmtec

English

MD\_641831-1\_02122018920\_dmtec

English

Instruction Sheets

Instruction Sheet (U.S.)

English



[Agency Approvals](#)

[CSA Certificate](#)

English