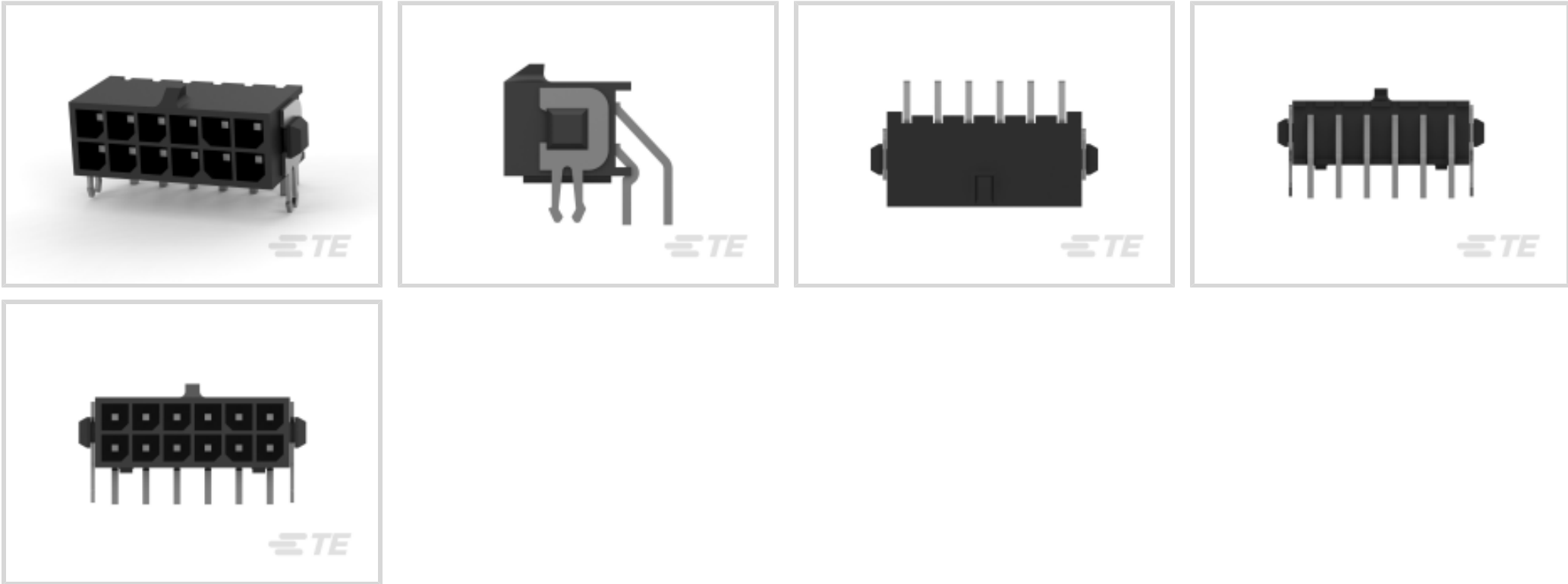




Connectors > Power Connectors > Rectangular Power > Rectangular Power Connectors



Rectangular Power Connector Type: **Header**

Connector & Housing Type: **Plug**

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

Number of Positions: **12**

Centerline (Pitch): **3 mm [.118 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       | 12          |
| PCB Mount Orientation     | Right Angle |
| Number of Power Positions | 12          |
| Number of Rows            | 2           |

Electrical Characteristics

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

Contact Features



|                                                         |                                         |
|---------------------------------------------------------|-----------------------------------------|
| Multiple Contact Types                                  | Without                                 |
| PCB Contact Termination Area Plating Material Thickness | 3.81 $\mu$ m[150 $\mu$ in]              |
| Contact Mating Area Plating Material                    | Tin                                     |
| Contact Current Rating (Max)                            | 5 A                                     |
| Contact Retention Within Housing                        | Without                                 |
| Contact Type                                            | Pin                                     |
| PCB Contact Termination Area Plating Material           | Tin                                     |
| Contact Mating Area Plating Material Thickness          | 2.54 - 7.62 $\mu$ m[100 - 300 $\mu$ in] |

Termination Features

|                                             |                       |
|---------------------------------------------|-----------------------|
| Termination Post & Tail Length              | 3.43 mm[.135 in]      |
| Termination Method to Printed Circuit Board | Through Hole - Solder |

Mechanical Attachment

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

Housing Features

|                              |                        |
|------------------------------|------------------------|
| PCB Mount Retention Material | Phosphor Bronze        |
| Centerline (Pitch)           | 3 mm[.118 in]          |
| Housing Color                | Black                  |
| Housing Material             | High Temperature Nylon |

Dimensions

|                                      |                  |
|--------------------------------------|------------------|
| Compatible Insulation Diameter (Max) | 1.52 mm          |
| PCB Thickness (Recommended)          | 1.6 mm[.063 in]  |
| Wire Size                            | 100.5 - 1022 CMA |
| Row-to-Row Spacing                   | 3 mm[.118 in]    |



Usage Conditions

|                             |                            |
|-----------------------------|----------------------------|
| Operating Temperature Range | -40 - 105 °C[-40 - 221 °F] |
|-----------------------------|----------------------------|

Operation/Application

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

Industry Standards

|                                             |                                                      |
|---------------------------------------------|------------------------------------------------------|
| CSA Rating                                  | Certified, LR 7189                                   |
| Glow Wire Material Rating                   | Material with GWFI 850°C, Material with GWIT ≥ 775°C |
| UL Rating                                   | Recognized                                           |
| Compatible With Agency/Standards Products   | CNR, USR                                             |
| Compatible With Approved Standards Products | UL E28476                                            |
| UL Flammability Rating                      | UL 94V-0                                             |
| Glow Wire Rating                            | GWT 750°C (Without Flame)                            |

Packaging Features

|                    |                  |
|--------------------|------------------|
| Packaging Quantity | 169              |
| Packaging Method   | Box & Tray, Tray |

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 2024 (240)<br>Candidate List Declared Against: JAN 2024 (240)<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                     | Reflow solder capable to 260°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 # 1-794617-2  
12POS,MICRO MNL,RCPT HSG

Also in the Series | Micro MATE-N-LOK

Connector Contacts(27)

Insertion & Extraction Tools(1)

Rectangular Power Connectors(469)

Customers Also Bought

TE Part # 1-1734592-8  
FPC CONN. 0.5MM PITCH B/C, 18P

TE Part # 3-640602-4  
04P MTA156 CONN ASSY 24AWG LF

TE Part # 2-1445051-2  
MICRO MNL HDR ASSY S/ROW LF

TE Part # 3-794680-4  
04P MICRO MNL ASSY,VRT,THRU LF

TE Part # 4-640429-2  
12P MTA156 CONN ASSY 24AWG WHT

TE Part # L9000021-01  
Antenna 1/2 Wave Whip 2.4GHz SMA

TE Part # ANT-433-CW-HW-SMA  
Antenna 1/4 Wave Whip 433MHz SMA

TE Part # ANT-868-CW-HW-SMA  
Antenna 1/2 Wave Whip 868MHz SMA



Documents

Product Drawings

12POS MICRO MNL ASSY,R/A,THRU

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_4-794677-2\_J.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_4-794677-2\_J.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_4-794677-2\_J.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

MICRO MATE-N-LOK CONNECTOR SYSTEM

English

Product Specifications

Application Specification

English

Agency Approvals

VDE Certificate

English