

1-770858-1 ✓ ACTIVE

MATE-N-LOK | Mini-Universal MATE-N-LOK

TE Internal #: 1-770858-1

Mini-Universal MATE-N-LOK, Rectangular Power Connectors,
Header, Receptacle, Wire-to-Board, 10 Position, 4.14mm [.162in]
Centerline

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Connectors > Power Connectors > Rectangular Power > Rectangular Power Connectors



Rectangular Power Connector Type: **Header**

Connector & Housing Type: **Receptacle**

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

Number of Positions: **10**

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

Features

Product Type Features

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

Configuration Features

| | |
|----------------------------|----------|
| Number of Positions | 10 |
| PCB Mount Orientation | Vertical |
| Number of Power Positions | 10 |
| Number of Signal Positions | 0 |
| Number of Rows | 2 |

Electrical Characteristics

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

Contact Features



| | |
|--|--|
| Multiple Contact Types | Without |
| 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 | 3.69 mm[.145 in] |
| Termination Method to Printed Circuit Board | Through Hole - Solder |

Mechanical Attachment

| | |
|--------------------------|-----------------|
| Strain Relief | Without |
| Mating Alignment Type | Chamfered Edges |
| 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 | Locking Tab |

Housing Features

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

Dimensions

| | |
|-----------------------------|------------------|
| Row-to-Row Spacing | 4.14 mm[.163 in] |
| Width | 9.83 mm |
| PCB Thickness (Recommended) | .06 mm[1.57 in] |
| Height | 13.49 mm |
| Length | 22.28 mm |



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 | No |

Packaging Features

| | |
|--------------------|-----|
| Packaging Method | Bag |
| Packaging Quantity | 100 |

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 2021 (211) Candidate List Declared Against: JAN 2021 (211) 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 |

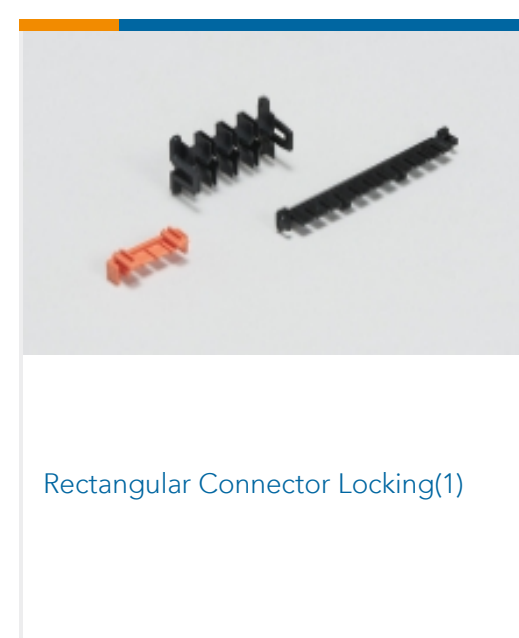
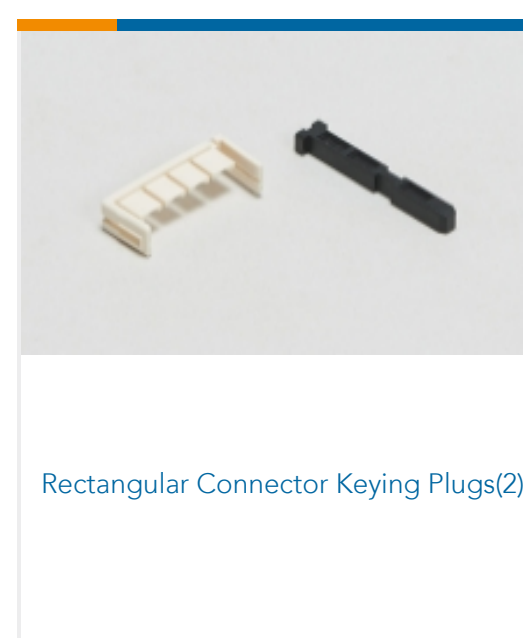
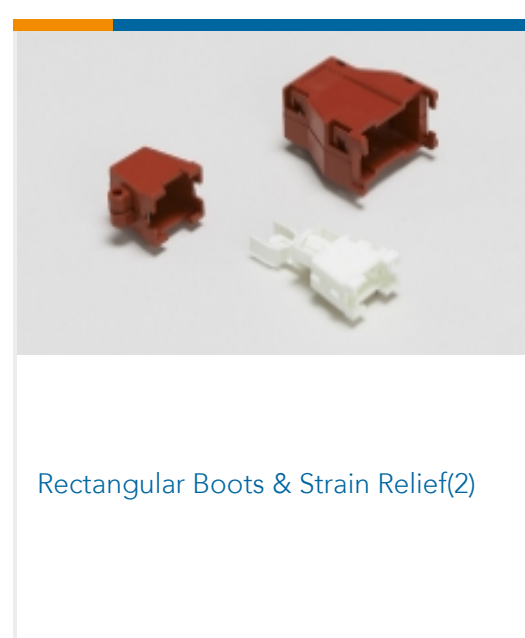
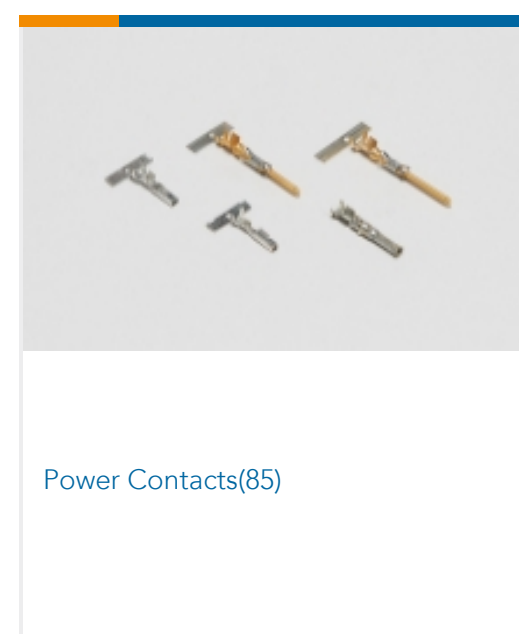
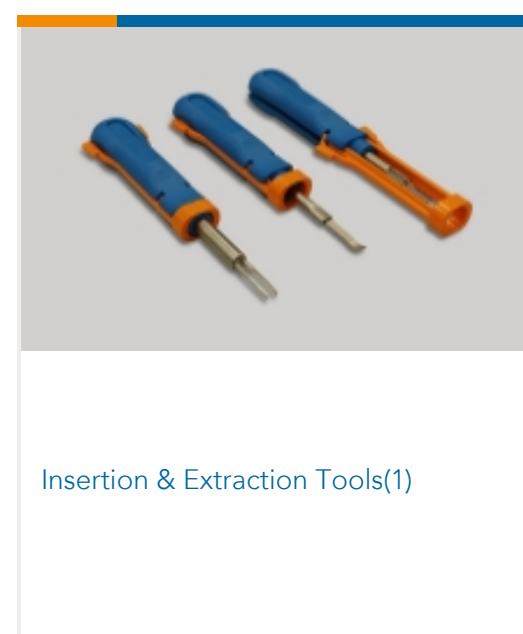
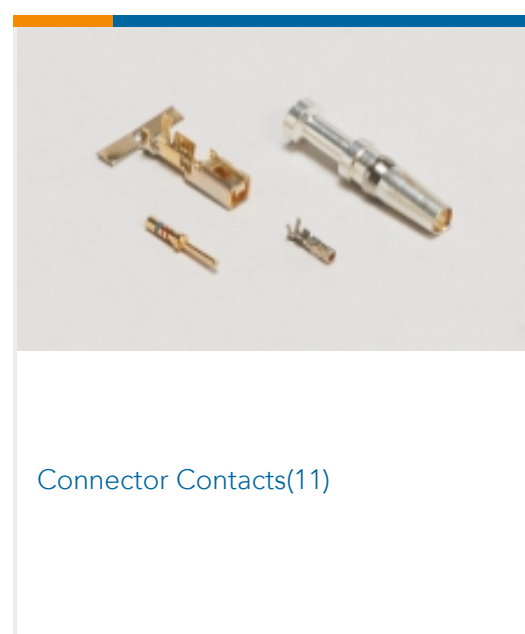
Product Compliance Disclaimer

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

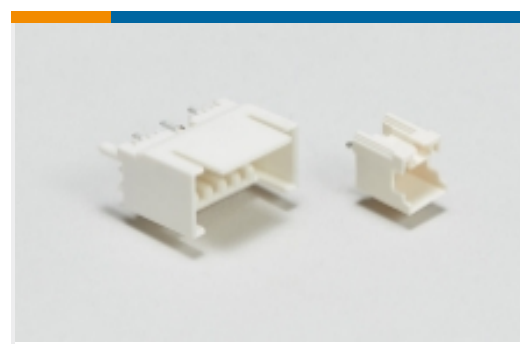


Also in the Series | Mini-Universal MATE-N-LOK



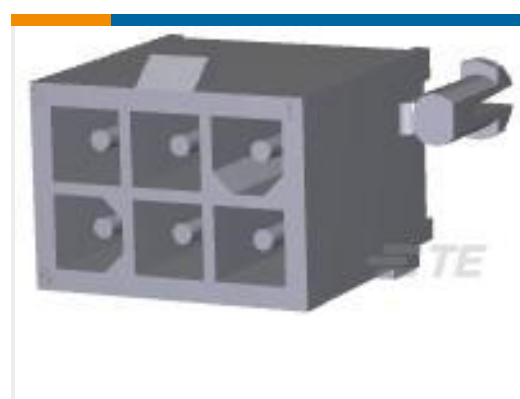
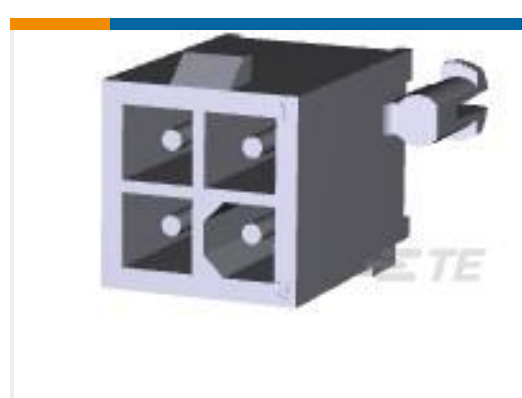


Rectangular Power Connectors(285)



Wire-to-Board Headers & Receptacles (1)

Customers Also Bought

TE Part #2-5747704-0
D-Sub Plug Assembly: Vertical, Shell Size 3, 2.74mmTE Part #1658197-1
SFP ConnectorsTE Part #213570-1
CPC MIL 5015TE Part #1-6609929-5
CORCOM P SERIES MULTI-FUNCTION INLET FILTE Part #1-794073-1
08P MINI UMNL HDR W/O DH AU LFTE Part #1-770875-1
06P MINI UMNL HDR ASSY AU LFTE Part #9-103329-0
40 MODII HDR SRRA B/A .100 CL LFTE Part #1-6609021-2
CORCOM B SERIES SINGLE PHASE FILTERSTE Part #1-770874-1
04P MINI UMNL HDR ASSY AU LFTE Part #1-770872-1
02P MINI UMNL HDR ASSY AU LF

Documents

Product Drawings

[10P MINI UMNL HDR ASSY AU LF](#)

English

CAD Files

[3D PDF](#)

3D

[Customer View Model](#)

[ENG_CVM_CVM_1-770858-1_G.2d_dxf.zip](#)



English

Customer View Model

[ENG_CVM_CVM_1-770858-1_G.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1-770858-1_G.3d_stp.zip](#)

English

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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_1-770858-1_02262016932_dmtec](#)

English

[MD_1-770858-1_02262016932_dmtec](#)

English

Instruction Sheets

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

English