

172170-1 ✓ ACTIVE

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

TE Internal #: 172170-1

Housing, Plug, Wire-to-Wire, 12 Position, 4.2 mm [.165 in]

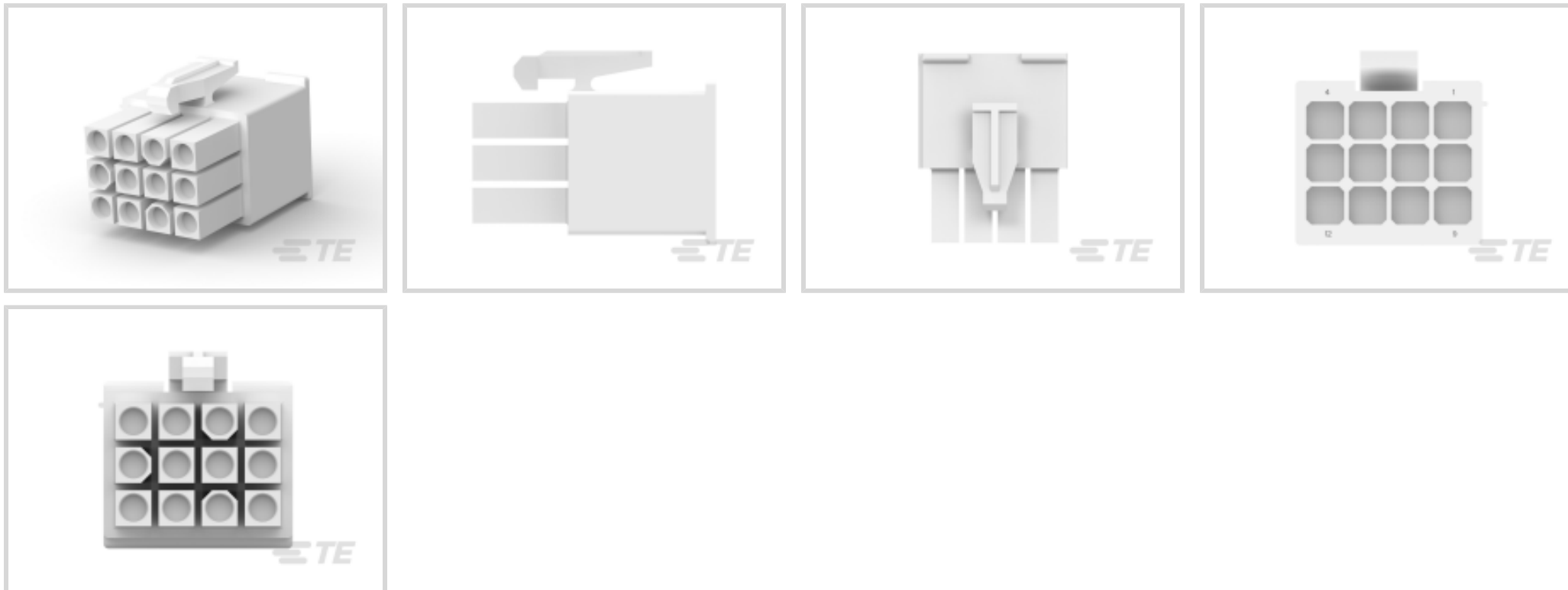
Centerline, Wire & Cable, UL 94V-0, Mini-Universal MATE-N-LOK,

Rectangular Power Connectors

[View on TE.com >](#)



Connectors > Power Connectors > Rectangular Power > Rectangular Power Connectors



Rectangular Power Connector Type: **Housing**

Connector & Housing Type: **Plug**

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

Number of Positions: **12**

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

## Features

### Product Type Features

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

### Configuration Features

|                     |    |
|---------------------|----|
| Number of Positions | 12 |
| Number of Rows      | 3  |

### Electrical Characteristics

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

### Contact Features

|                                  |         |
|----------------------------------|---------|
| Multiple Contact Types           | Without |
| Contact Layout                   | Matrix  |
| Contact Retention Within Housing | Without |



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

### Termination Features

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

### Mechanical Attachment

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

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

### Housing Features

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

|               |         |
|---------------|---------|
| Housing Color | Natural |
|---------------|---------|

|                  |          |
|------------------|----------|
| Housing Material | Nylon 66 |
|------------------|----------|

### Dimensions

|                    |                  |
|--------------------|------------------|
| Row-to-Row Spacing | 4.2 mm [.165 in] |
|--------------------|------------------|

### Usage Conditions

|                             |                            |
|-----------------------------|----------------------------|
| Operating Temperature Range | -20 – 105 °C [-4 – 221 °F] |
|-----------------------------|----------------------------|

### Operation/Application

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

### Industry Standards

|            |                    |
|------------|--------------------|
| CSA Rating | Certified, LR 7189 |
|------------|--------------------|

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

|   |         |
|---|---------|
| Compatible With Agency/Standards Products | CSA, UL |
|---|---------|

|   |           |
|---|-----------|
| Compatible With Approved Standards Products | UL E28476 |
|---|-----------|

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

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

### Packaging Features

|                    |     |
|--------------------|-----|
| Packaging Quantity | 500 |
|--------------------|-----|

|                  |     |
|------------------|-----|
| Packaging Method | Bag |
|------------------|-----|

### 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 2024 (241)<br>Candidate List Declared Against: JUNE 2024 (241)<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                     | Not applicable for solder process capability  |

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

|   |   |  |   |
|---|---|--|---|
| <br>TE Part # 1-770988-1<br>MINI UMNL SOK 22-18AWG LP LF | <br>TE Part # 1-770985-0<br>MINI UMNL PIN 26-22AWG AU LP | <br>TE Part # 1-770987-0<br>MINI UMNL PIN 22-18 AWG AU LP | <br>TE Part # 770988-3<br>MINI UMNL SOK 22-18AWG AU LP |
| <br>TE Part # 1-770988-0<br>MINI UMNL SOK 22-18AWG AU    | <br>TE Part # 1-794059-0<br>MINI UMNL PIN L/P LF         | <br>TE Part # 770988-1<br>MINI UMNL SOK 22-18AWG SN LP    | <br>TE Part # 770986-1<br>MINI UMNL SOK 26-22AWG SN LP |



TE Part # 1-770186-1  
12P MINI UMNL ASSY VO SNAU LF

TE Part # 794058-1  
MINI UMNL SOK L/P

TE Part # 170365-3  
MINI UNIVERSAL M-N-L SOCKET LP

TE Part # 170364-3  
MINI UNIVERSAL M-N-L PIN LP

TE Part # 770985-1  
MINI UMNL PIN 26-22AWG SN LP

TE Part # 1-794407-1  
MINI UMNL SOK 20-16 AWG AU LF

TE Part # 1-770186-0  
12P MINI-UMNL ASSY VO SNNI\*

TE Part # 172162-1  
12 CIR UNIV M-N-L CAP

TE Part # 170363-3  
MINI UNIVERSAL M-N-L PIN LP

TE Part # 1-794040-1  
12P MINI UMNL HDR ASSY AUBR LF

TE Part # 171638-1  
MINI U-M-N-L PIN CONT. L.P

TE Part # 171639-1  
MINI U-M-N-L SOCKET L.P

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

Connector Caps & Covers(2)

Connector Contacts(89)

Connector Hardware(4)

Connector Seals & Cavity Plugs(17)

Connector Strain Relief(2)

Insertion & Extraction Tools(1)

Rectangular Power Connectors(197)

Customers Also Bought



**Documents**

**CAD Files**

[3D PDF](#)

[3D](#)

**Customer View Model**

[ENG\\_CVM\\_CVM\\_172170-1\\_J.2d\\_dxf.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_CVM\\_172170-1\\_J.3d\\_igs.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_CVM\\_172170-1\\_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

**Product Specifications**



**Engineering Report**

English

---

**Instruction Sheets**

**Instruction Sheet (U.S.)**

English

---

**Agency Approvals**

**Agency Approval Document**

English