



MATE-N-LOK

| Mini-Universal MATE-N-LOK, Mini Circular Plastic Connectors

TE Internal #: 1-770901-0

Pin Contact, Gold (Au), 600 VAC, 600 VDC, 26 – 22 AWG, .12 – .4 mm² Wire, Crimp, Brass, Power, -55 – 105 °C [-67 – 221 °F], Mini-Universal MATE-N-LOK

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Connectors > Contacts > Connector Contacts



Contact Type: **Pin**

Contact Mating Area Plating Material: **Gold (Au)**

Wire Contact Termination Area Plating Material: **Tin**

Operating Voltage: **600 VDC**

Features

Product Type Features

|                    |          |
|--------------------|----------|
| Discrete Wire Type | Stranded |
|--------------------|----------|

Electrical Characteristics

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

Contact Features

|                                                       |                  |
|-------------------------------------------------------|------------------|
| Contact Underplating Material                         | Nickel           |
| Contact Orientation                                   | Straight         |
| Mating Pin Diameter                                   | 1 mm[.039 in]    |
| Contact Underplating Material Thickness               | 1.27 µm[50 µin]  |
| Contact Mating Area Plating Material Thickness        | .76 µm[30 µin]   |
| Wire Contact Termination Area Plating Material Finish | Bright           |
| Wire Contact Termination Area Plating Thickness       | 2.54 µm[100 µin] |
| Contact Type                                          | Pin              |
| Contact Mating Area Plating Material                  | Gold (Au)        |
| Wire Contact Termination Area Plating Material        | Tin              |



|                                  |       |
|----------------------------------|-------|
| Contact Retention Within Housing | With  |
| Contact Base Material            | Brass |
| Contact Current Rating (Max)     | 9.5 A |

Termination Features

|                                    |              |
|------------------------------------|--------------|
| Termination Method to Wire & Cable | Crimp        |
| Product Terminates To              | Wire & Cable |

Mechanical Attachment

|                         |         |
|-------------------------|---------|
| Wire Insulation Support | Without |
|-------------------------|---------|

Dimensions

|                                      |                                |
|--------------------------------------|--------------------------------|
| Compatible Insulation Diameter Range | 1.19 – 1.75 mm[.047 – .069 in] |
| Wire Size                            | .12 – .4 mm²                   |

Usage Conditions

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

Operation/Application

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

Industry Standards

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

Packaging Features

|                    |      |
|--------------------|------|
| Packaging Quantity | 7000 |
| Packaging Method   | Reel |

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 2025 (247)<br>Candidate List Declared Against: JAN 2025 (247)<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>

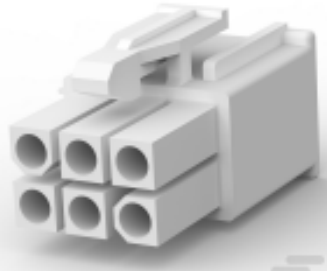
Compatible Parts

|                                                                                                                                                 |                                                                                                                                                           |                                                                                                                                                            |                                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>TE Part # 1-172156-2<br/>1 POS SR MINI UNIV</p>          |  <p>TE Part # 1-172338-4<br/>MINI U-M-N-L PLUG 4P YELLOW</p>          |  <p>TE Part # 1-172165-5<br/>2CIR MINI U-M-N-L PLUG GREN</p>          |  <p>TE Part # 1-172233-2<br/>2 POS MINI UNIV FREE HANG RED</p> |
|  <p>TE Part # 1586404-1<br/>16P MINI UMNL CAP HSG SEALED</p> |  <p>TE Part # 770581-1<br/>12P MINI UMNL PLUG HSG</p>                 |  <p>TE Part # 2837923-2<br/>OCEAN-2.0-APPLICATOR-S-048F080F-RSA</p>   |  <p>TE Part # 770584-1<br/>18P MINI UMNL PLUG HSG</p>          |
|  <p>TE Part # 794821-1<br/>08P MINI UMNL PLUG HSG</p>        |  <p>TE Part # 5-2837923-2<br/>OCEAN-2.0-APPLICATOR-S-048F080F-RSA</p> |  <p>TE Part # 5-2837923-1<br/>OCEAN-2.0-APPLICATOR-S-048F080F-RSM</p> |  <p>TE Part # 770579-1<br/>08P MINI UMNL PLUG HSG</p>          |

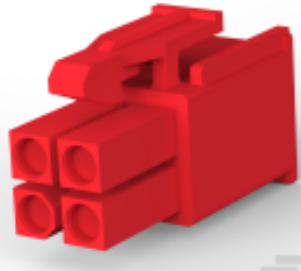




TE Part # 172234-1  
3P MINI UNIVERSAL MATE-N-LOK  
CAP HOUSING



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



TE Part # 1-172167-2  
4 POS DR MINI UNIV



TE Part # 172338-1  
MINI UMNL PLUG HOUSING 4P



TE Part # 1445818-1  
PLUG,11-7,SM INS,STD KEY



TE Part # 1445819-1  
PLUG,11-6,SM INS,STD KEY



TE Part # 1445821-1  
REC,11-8,FLNG MT,SM INS,STD KE



TE Part # 1445824-1  
REC,11-5,FLNG MT,SM INS,STD KE

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



Connector Caps & Covers(2)



Connector Contacts(20)



Connector Hardware(4)



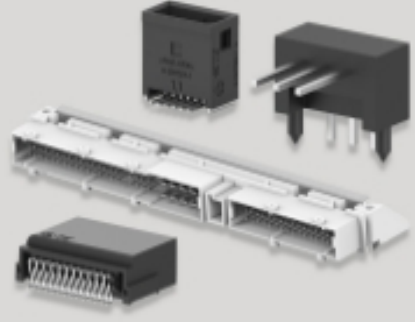
Connector Seals & Cavity Plugs(17)



Connector Strain Relief(2)



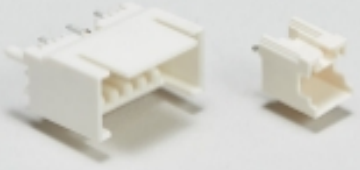
Insertion & Extraction Tools(1)



PCB Headers & Receptacles(93)



Rectangular Power Connectors(196)



Wire-to-Board Headers & Receptacles  
(93)

Also in the Series | Mini Circular Plastic Connectors



Circular Power Connectors(40)



Connector Contacts(20)



Power Contacts(20)

Customers Also Bought



TE Part #2-6609028-3  
40VK6=F7864 S0



TE Part #1-350780-9  
04P UMNL V0 CAP HSG BLACK



TE Part #62787-1  
RING TONGUE 18-14 AWG SST



TE Part #1-747150-4  
09 RCPT SP/FMS SCRLK



TE Part #1-2834237-2  
2P REC, IP67 VERTICAL T/H CONN,  
NATURE



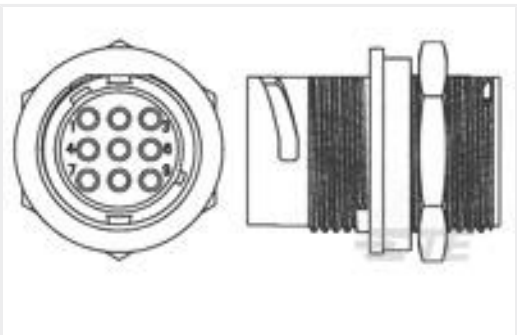
TE Part #9-1879133-4  
RN 0603 8K25 0.1% 10PPM 1K RL



TE Part #4-641237-1  
11P MTA100 CONN ASSY RED 30AU



TE Part #5-103168-8  
20 MODII HDR DRST SHRD .100CL



TE Part #1445816-1  
RECPT,11-9,FLNG MT,STD KEY



TE Part #6609132-9  
3EZM4=F8123

Documents

Product Drawings

MINI UMNL PIN 26-22 AWG AU LF

English

CAD Files

Customer View Model

ENG\_CVM\_CVM\_1-770901-0\_P.2d\_dxf.zip

English

3D PDF



3D

Customer View Model

[ENG\\_CVM\\_CVM\\_1-770901-0\\_P.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_1-770901-0\\_P.3d\\_stp.zip](#)

English

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

Datasheets & Catalog Pages

[AMP Circular Connectors for Commercial Signal & Power Applications Continued](#)

English

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

English

Product Specifications

[Application Specification](#)

English

Instruction Sheets

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

English