



MATE-N-LOK

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

TE Internal #: 1-794059-0

Pin Contact, Gold (Au), 600 VAC, 600 VDC, 30 – 26 AWG, .05 – .15 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 | Matte            |
| 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 | .89 – 1.27 mm[.035 – .05 in] |
| Wire Size                            | .05 – .15 mm²                |

Usage Conditions

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

Operation/Application

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

Identification Marking

|                    |       |
|--------------------|-------|
| Contact Color Code | Black |
|--------------------|-------|

Industry Standards

|                                           |          |
|-------------------------------------------|----------|
| Compatible With Agency/Standards Products | CSA, UL  |
| UL Flammability Rating                    | UL 94V-0 |

Packaging Features

|                    |      |
|--------------------|------|
| Packaging Quantity | 1000 |
| 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: JAN 2025 (247)<br>Candidate List Declared Against: JAN 2025 (247) |



Does not contain REACH SVHC

|                 |                                                                                     |
|-----------------|-------------------------------------------------------------------------------------|
| Halogen Content | Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free |
|-----------------|-------------------------------------------------------------------------------------|

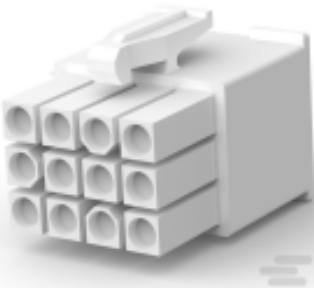
|                           |                                            |
|---------------------------|--------------------------------------------|
| Solder Process Capability | Not reviewed for solder process capability |
|---------------------------|--------------------------------------------|

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 # 1-172233-6<br/>2 POS MINI UNIV FREE HANG BLUE</p> |  <p>TE Part # 172340-1<br/>MINI UMNL PLUG HOUSING 9P</p> |  <p>TE Part # 1445510-1<br/>REC,8-3,FRE HNG,SM INS,STD KEY</p> |  <p>TE Part # 1445822-3<br/>REC,11-7,FLNG MT,LG INS,STD KE</p> |
|  <p>TE Part # 172233-1<br/>2 POS MINI UMNL CAP HOUSING</p>      |  <p>TE Part # 172337-1<br/>MINI UMNL PLUG HOUSING 3P</p> |  <p>TE Part # 2217755-1<br/>CERTI-CRIMP II HAND TOOL</p>       |  <p>TE Part # 1-172168-2<br/>MINI UNIVERSAL M-N-L PLUG 6P</p>  |
|  <p>TE Part # 1-172157-2<br/>2CIR MINI U-M-N-L CAP RED</p>      |  <p>TE Part # 770580-1<br/>10P MINI UMNL PLUG HSG</p>    |  <p>TE Part # 172336-1<br/>2P MINI UMNL PLUG HOUSING</p>       |  <p>TE Part # 770583-1<br/>16P MINI UMNL PLUG HSG</p>          |



TE Part # 172170-1  
12 CIR UNIV M-N-L PLUG



TE Part # 172161-1  
9 CIR UNIV M-N-L CAP



TE Part # 1445537-3  
REC,8-3,FLNG MT,LG INS,STD KEY



TE Part # 1445807-1  
PLUG,11-9,SM INS,STD KEY



TE Part # 1445807-3  
PLUG,11-9,LG INS,STD KEY



TE Part # 1445538-3  
REC,8-2,FLNG MT,LG INS,STD KEY



TE Part # 1445827-1  
REC,11-7,FRE HNG,SM INS,STD KE



TE Part # 1445818-3  
PLUG,11-7,LG INS,STD KEY

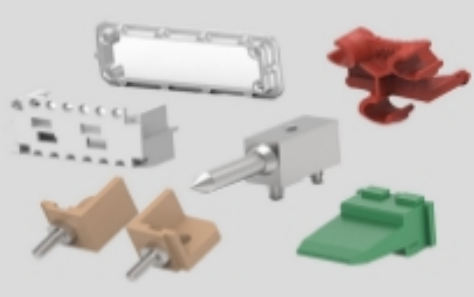
Also in the Series | Mini-Universal MATE-N-LOK



Connector Caps & Covers(2)



Connector Contacts(20)



Connector Hardware(4)



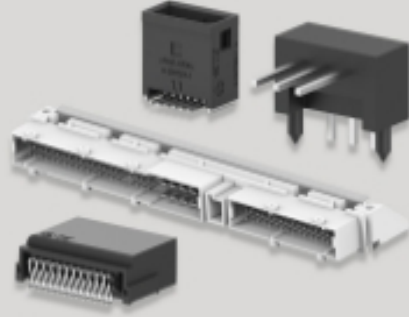
Connector Seals & Cavity Plugs(17)



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 #326878  
PIDG R 22-16 COMM 22-18 MIL 6



TE Part #4-1625892-2  
3W SM M/OX 5% 33K



TE Part #34111  
SOLIS R 22-16 COMM 22-18 MIL 8



TE Part #4-640441-6  
16P MTA100 CONN ASSY WHT



TE Part #CAT-HST-CGPT1  
CGPT 2:1 Heat Shrink Tubing



TE Part #32442  
TERMINAL,PIDG R 16-14 6



TE Part #5227222-3  
VERT JK W/MTG PINS, BNC PCB



TE Part #HDP24-18-8SE  
REC, 8P, BLK, E, 12, S



TE Part #5053112041  
RNF-100-1/4-4-STK

Documents

Product Drawings  
MINI UMNL PIN L/P LF

English

CAD Files  
3D PDF

English

Customer View Model  
ENG\_CVM\_1-794059-0\_E1.3d\_igs.zip



English

Customer View Model

[ENG\\_CVM\\_1-794059-0\\_E1.3d\\_stp.zip](#)

English

Customer View Model

[ENG\\_CVM\\_1-794059-0\\_E1.2d\\_dxf.zip](#)

English

3D PDF

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_1-794059-0\\_C.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_1-794059-0\\_C.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_1-794059-0\\_C.3d\\_stp.zip](#)

English

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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