# THE DATASHEET OF

# 1-770986-0

www.win-source.net 0086-755-83957316

# 1-770986-0 ✔ ACTIVE

MATE-N-LOK

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

TE Internal #: 1-770986-0

Socket Contact, Gold (Au), 600 VAC, 600 VDC, 26 – 22 AWG, .12 – .

4 mm² Wire, Crimp, Brass, Power, Mini-Universal MATE-N-LOK

View on TE.com >

Connectors > Contacts > Connector Contacts







Contact Type: **Socket**

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 | Socket |
| 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 |
| 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: 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

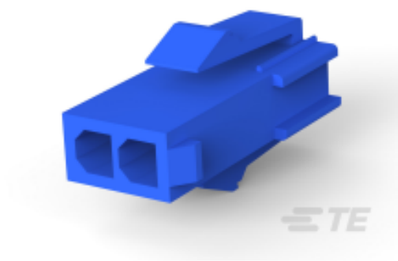
Product Compliance Disclaimer

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



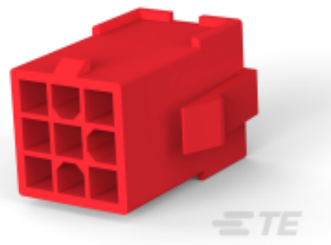
TE Part # 1-172164-2
MINI UNIVERSAL M-N-L PLUG 1P



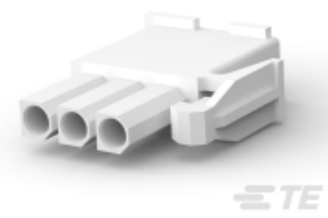
TE Part # 1-172157-6
2CIR MINI U-M-N-L CAP BLUE



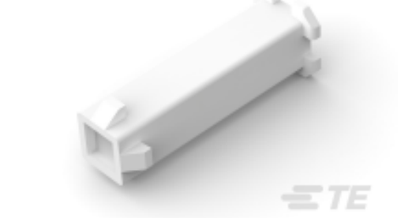
TE Part # 1445816-3
RECPT,11-9,FLNG MT,STD KEY



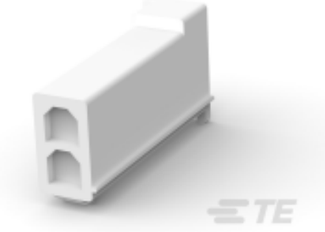
TE Part # 1-172332-9
MUMNL PM CAP 9P



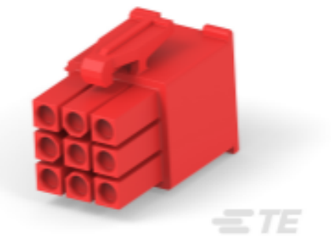
TE Part # 172166-1
3 CIR UNIV M-N-L PLUG



TE Part # 172327-1
UNIV M-N-L HSG



TE Part # 172343-1
MINI UNIVERSAL M-N-L HOUSING



TE Part # 1-172169-2
MINI UNIVERSAL M-N-L PLUG 9P



TE Part # 1-172330-9
UNIVERSAL MATE-N-LOK CAP 4P



TE Part # 1-172165-6
2CIR MINI U-M-N-L PLUG BLUE



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



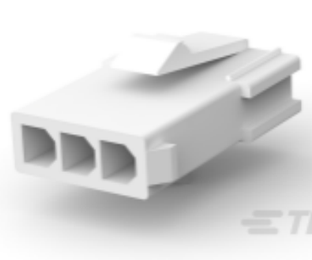
TE Part # 1445522-3
REC,8-2,FRE HNG,LG INS,STD KEY



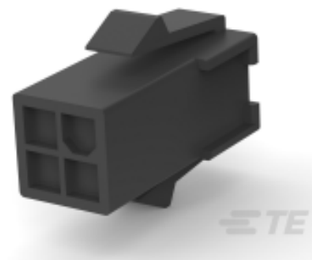
TE Part # 1445537-1
REC,8-3,FLNG MT,SM INS,STD KEY



TE Part # 1445389-1
REC,8-4,FREE HG,SM INS,STD KEY



TE Part # 172158-1
3 CIR UNIV M-N-L CAP



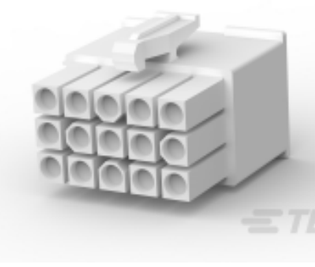
TE Part # 1-172159-9
MINI UNIVERSAL M-N-L CAP 4P



TE Part # 172332-1
MINI UNIVERSAL MATE-N-LOK CAP HOUSING 9P



TE Part # 172344-1
MINI UNIVERSAL MATE-N-LOK CAP HOUSING 3P



TE Part # 172171-1
15 CIR UNIV M-N-L PLUG

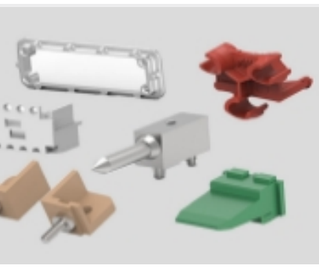


TE Part # 1445534-3
PLUG,8-3,LARGE INS,STD KEY

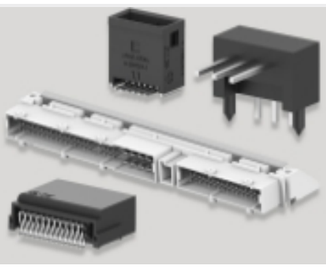
## Also in the Series | Mini-Universal MATE-N-LOK



Connector Contacts(20)



Connector Hardware(4)



PCB Headers & Receptacles(93)



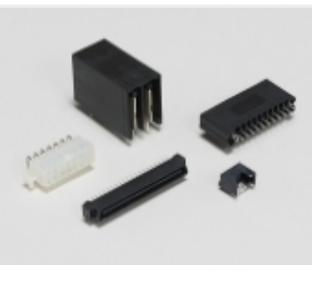
Power Contacts(20)



Rectangular Connector Housings(104)

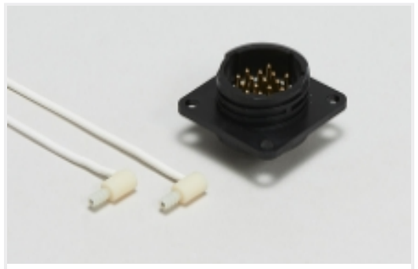


Rectangular Power Connectors(196)



Standard Rectangular Connectors(104)

## Also in the Series | Mini Circular Plastic Connectors



Circular Power Connectors(40)

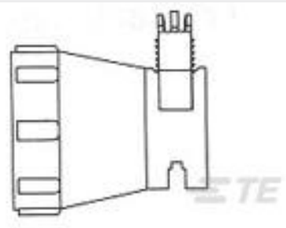


Connector Contacts(20)



Power Contacts(20)

## Customers Also Bought



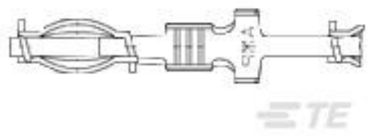
TE Part #1445856-1

STR RELIEF ASY,STRAIGHT SZ 11



TE Part #759025-000

7824E0422-9X



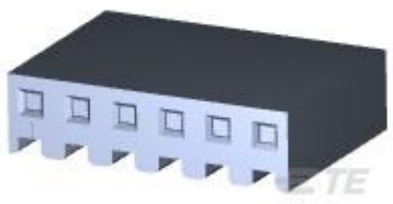
TE Part #170063-2

CLUSTER PIN REC



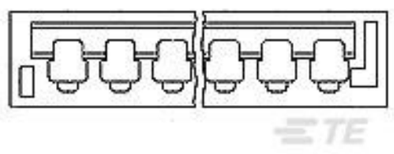
TE Part #2333102-1

2POS,NANOMQS,REC HSG ASSY, COD A



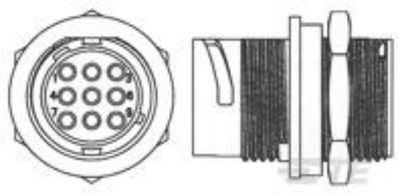
TE Part #640251-6

06P SL156 HSG W/O LCK RAMP



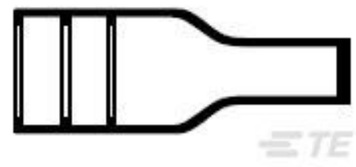
TE Part #640136-2

02P EDGE CONN HSG, BIF-LEAF



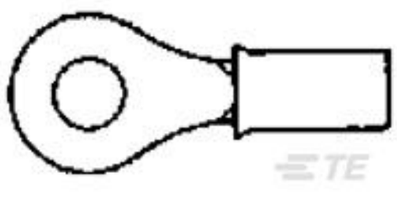
TE Part #1445816-3

RECPT,11-9,FLNG MT,STD KEY



TE Part #189631-000

202D142-3/86-0



TE Part #32861

TERMINAL,DG R 26-22 6



TE Part #852013-000

222A121-15-CS-2067-0

## Documents

### Product Drawings

MINI UMNL SOK 26-22AWG AU LP

English

### CAD Files

3D PDF

English

### Customer View Model

ENG_CVM_1-770986-0_H.2d_dxf.zip

English

Customer View Model

ENG_CVM_1-770986-0_H.3d_igs.zip

English

Customer View Model

ENG_CVM_1-770986-0_H.3d_stp.zip

English

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1-770986-0_D.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1-770986-0_D.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1-770986-0_D.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

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- TE Connectivity Information

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- Alternative Solution
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