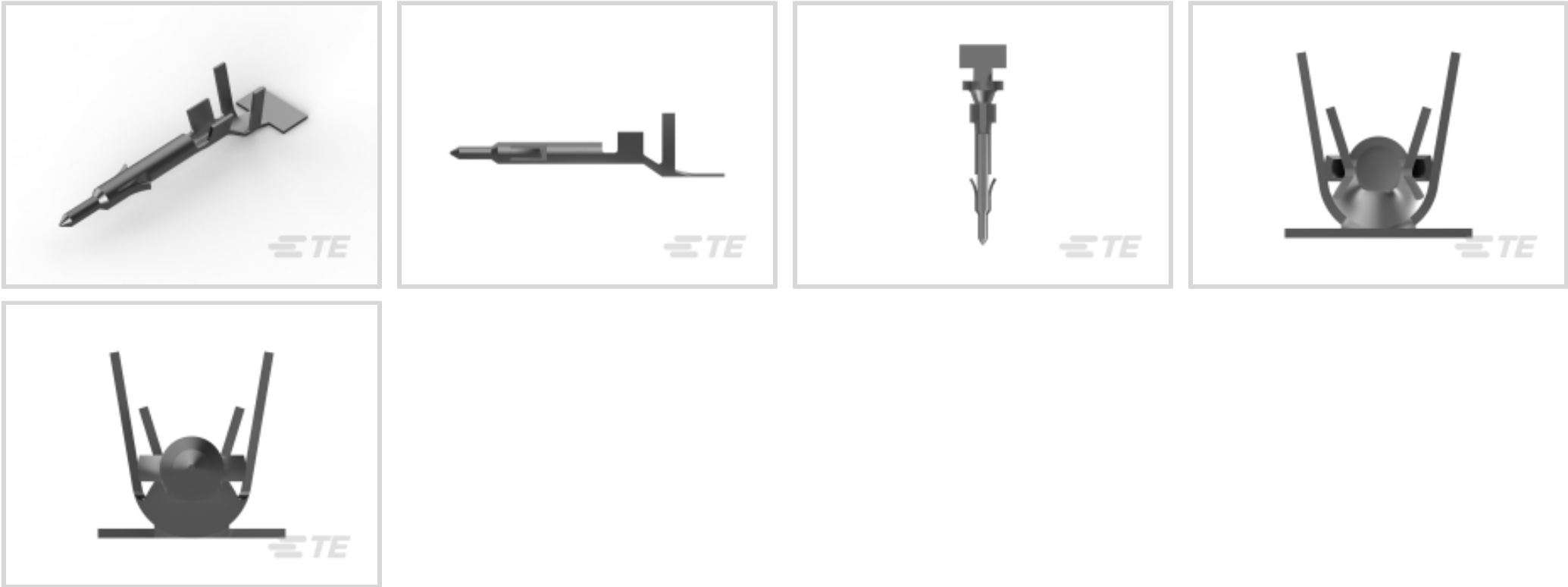




Connectors > Contacts > Connector Contacts



Contact Type: **Pin**

Contact Mating Area Plating Material: **Tin**

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

Operating Voltage: **600 VDC**

Features

Product Type Features

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

Electrical Characteristics

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

Contact Features

|                                                       |                  |
|-------------------------------------------------------|------------------|
| Mating Pin Diameter                                   | 1 mm[.039 in]    |
| Wire Contact Termination Area Plating Thickness       | .8 µm[31.49 µin] |
| Wire Contact Termination Area Plating Material Finish | Matte            |
| Contact Mating Area Plating Material Thickness        | .8 µm[31.49 µin] |
| Contact Shape & Form                                  | Square           |
| Contact Orientation                                   | Straight         |
| Barrel Type                                           | Open             |
| Contact Type                                          | Pin              |
| Contact Mating Area Plating Material                  | Tin              |
| Wire Contact Termination Area Plating Material        | Pre-Tin          |
| Contact Retention Within Housing                      | With             |



|                              |       |
|------------------------------|-------|
| Contact Base Material        | Brass |
| Contact Current Rating (Max) | 7 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 | 2 – 3.2 mm[.079 – .126 in] |
| Wire Size                            | .5 – 1.3 mm²               |

Usage Conditions

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

Operation/Application

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

Industry Standards

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

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: 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

|                                                                                                                                                        |                                                                                                                                           |                                                                                                                                            |                                                                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>TE Part # 91536-1<br/>CCII MINI-UMNL PIN 20-18 16-20x2 ASSY</p> |  <p>TE Part # 189727-1<br/>EXTRACTION TOOL</p>        |  <p>TE Part # 455830-1<br/>INSERTION TOOL</p>         |  <p>TE Part # 770586-1<br/>22P MINI UMNL PLUG HSG</p>                   |
|  <p>TE Part # 770587-1<br/>24P MINI UMNL PLUG HSG</p>               |  <p>TE Part # 770582-1<br/>14P MINI UMNL PLUG HSG</p> |  <p>TE Part # 770585-1<br/>20P MINI UMNL PLUG HSG</p> |  <p>TE Part # 172333-1<br/>MINI UNIVERSAL M-N-L HOUSING</p>             |
|  <p>TE Part # 770581-1<br/>12P MINI UMNL PLUG HSG</p>               |  <p>TE Part # 770580-1<br/>10P MINI UMNL PLUG HSG</p> |  <p>TE Part # 770584-1<br/>18P MINI UMNL PLUG HSG</p> |  <p>TE Part # 172328-1<br/>MINI UNIVERSAL MATE-N-LOK CAP HOUSING 2P</p> |





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

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

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

TE Part # 172337-1  
MINI UMNL PLUG HOUSING 3P

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

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

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

TE Part # 172163-1  
15 CIR UNIV M-N-L CAP

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

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

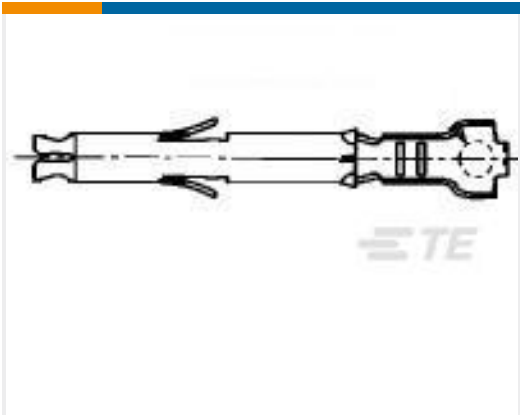
TE Part #172162-1  
12 CIR UNIV M-N-L CAP

TE Part #170364-1  
MINI UNIVERSAL M-N-L PIN LP

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







TE Part #170366-1  
MINI UNIVERSAL M-N-L SOCKET LP



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



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



TE Part #172165-1  
2 CIR UNIV M-N-L PLUG NATL



TE Part #2-2205131-3  
CA MINI IO MINI IO TYPE I



TE Part #2282162-1  
2POS,TAB 9.5X1.2,HEADER ASSY

Documents

Product Drawings

MINI U-M-N-L PIN CONT. L.P

English

CAD Files

Customer View Model

ENG\_CVM\_CVM\_171638-1\_A.2d\_dxf.zip

English

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_171638-1\_A.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_171638-1\_A.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

Crimping of Mini-Universal MATE-N-LOK Contact

Japanese

Application Specification

Japanese



Instruction Sheets

Instruction Sheet (non U.S.)

Japanese

Mini-Universal MATE-N-LOK Connector

Japanese