

1-770903-1 ✓ ACTIVE

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

TE Internal #: 1-770903-1

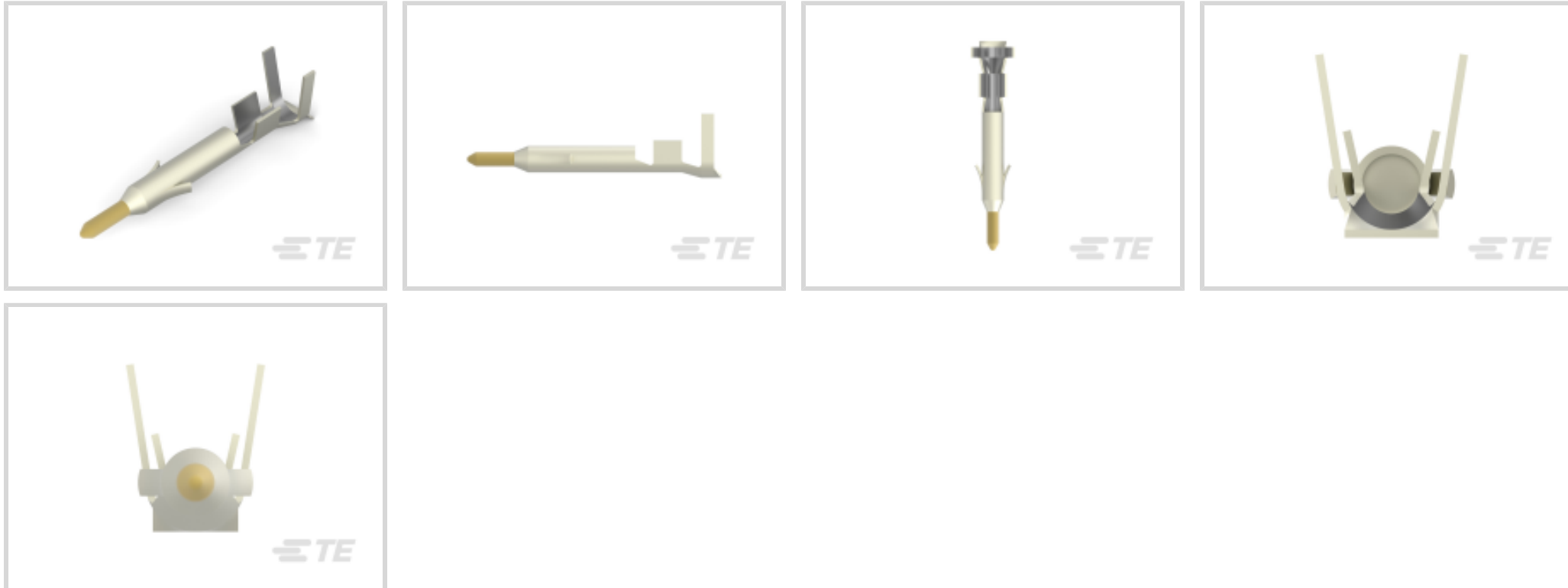
Power Contacts, Contact, 600 VAC, 600 VDC, Gold, 22 – 18 AWG

Wire Size, .3 – .9 mm<sup>2</sup> Wire Size, Wire & Cable, Crimp, Power, Mini-Universal MATE-N-LOK

[View on TE.com >](#)



Connectors > Power Connectors > Power Contacts



Power Contact Type: **Contact**

Operating Voltage: **600 VDC**

Contact Mating Area Plating Material: **Gold**

Wire Size: **22 – 18 AWG**

## Features

### Product Type Features

|                                    |              |
|------------------------------------|--------------|
| Compatible With Discrete Wire Type | Stranded     |
| Power Contact Type                 | Contact      |
| Connector & Contact Terminates To  | Wire & Cable |

### Electrical Characteristics

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

### Contact Features

|   |                   |
|---|-------------------|
| Contact Mating Area Plating Material            | Gold              |
| Contact Current Rating (Max)                    | 11.2 A            |
| Contact Type                                    | Pin               |
| Contact Retention Within Housing                | With              |
| Mating Pin Diameter                             | 1 mm [.039 in]    |
| Contact Base Material                           | Phosphor Bronze   |
| Contact Mating Area Plating Material Thickness  | .76 µm [30 µin]   |
| Wire Contact Termination Area Plating Thickness | 2.54 µm [100 µin] |
| Wire Contact Termination Area Plating Material  | Tin               |



|   |                 |
|---|-----------------|
| Wire Contact Termination Area Plating Material Finish | Bright          |
| Contact Orientation                                   | Straight        |
| Contact Underplating Material                         | Nickel          |
| Contact Underplating Material Thickness               | 1.27 µm[50 µin] |

### Termination Features

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

### Mechanical Attachment

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

### Dimensions

|                                      |                               |
|--------------------------------------|-------------------------------|
| Wire Size                            | .3 – .9 mm <sup>2</sup>       |
| Compatible Insulation Diameter Range | 1.5 – 2.39 mm[.059 – .094 in] |

### Usage Conditions

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

### Operation/Application

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

### Industry Standards

|                 |                    |
|-----------------|--------------------|
| CSA Rating      | Certified, LR 7189 |
| UL Rating       | Recognized         |
| Agency/Standard | CSA, UL            |

### Packaging Features

|                    |      |
|--------------------|------|
| Packaging Quantity | 4500 |
| Packaging Method   | Reel |

### Other

|                          |   |
|--------------------------|---|
| Power Connectors Comment | HDM Applicator part number ending in -1 is used on AMPOMATOR CLS Machine with T or G Terminators, -2 is used on AMP-O-LECTRIC Model K Machine, -3 is used on AMP-O-LECTRIC Model G Machine. |
|--------------------------|---|

### Product Compliance

For compliance documentation, visit the product page on [TE.com](https://www.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 2023 (235)<br>Candidate List Declared Against: JUNE 2023 (235)<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 # CAT-AM71-C83998EE  
Mini Circular Plastic Connectors (CPC)



TE Part # 91522-1  
CCII MINI UNML PIN SKT 22-18 ASSY



TE Part # 90759-1  
PROCRIMP TL W/DIE MIN UNIV MNL



TE Part # 189727-1  
EXTRACTION TOOL



TE Part # 455830-1  
INSERTION TOOL



TE Part # 770586-1  
22P MINI UMNL PLUG HSG



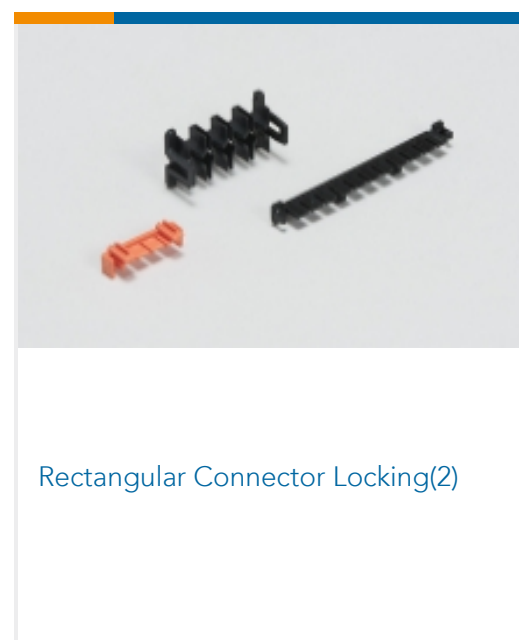
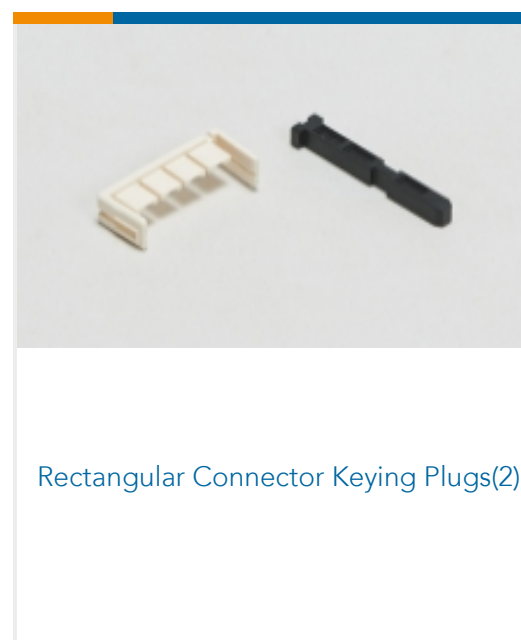
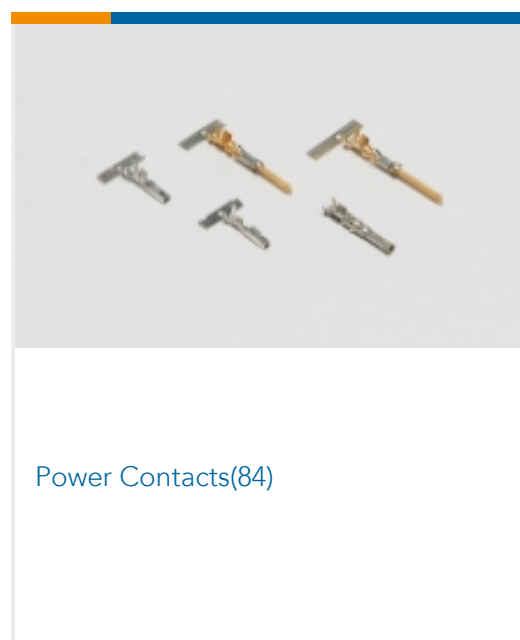
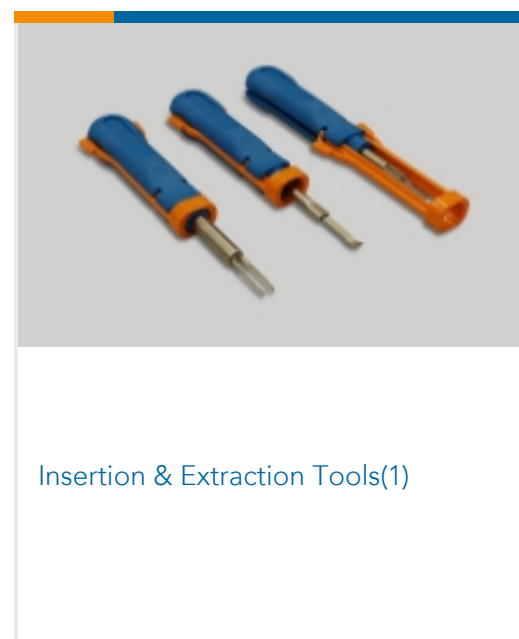
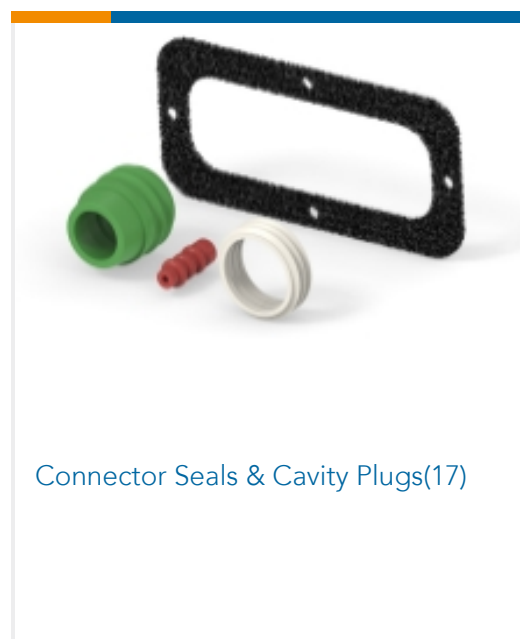
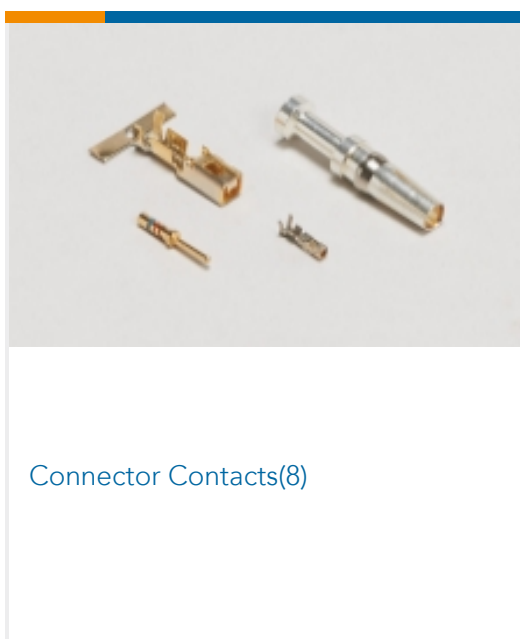
TE Part # 794942-1  
10P MINI UMNL CAP HSG



TE Part # 770587-1  
24P MINI UMNL PLUG HSG



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





Rectangular Power Connectors(244)

## Customers Also Bought



TE Part #5-1971772-3  
PTL 1X3 CAP PANEL MT HITEMP KEY A LGR



TE Part #1971786-2  
PTL TAB CONTACT, 20 - 22 AWG



TE Part #1445421-1  
REC,8-4,FLNG MT,SM INS,STD KEY



TE Part #5222132-1  
JACK,VERTICAL,PCB,75 OHM,BNC



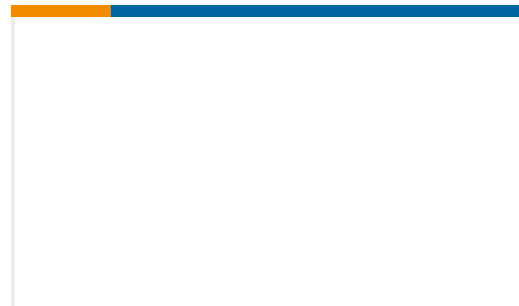
TE Part #1-770901-0  
MINI UMNL PIN 26-22 AWG AU LF



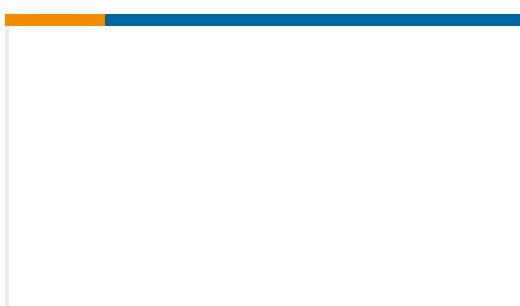
TE Part #5-1971773-7  
PTL 1X5 PLUG HSG HIGH TEMP KEY A LGR



TE Part #T4145035081-002  
M12 RA PCB CONN. Female 8 P SHIELD



TE Part #EF5670-000  
PWR0113-0-0



TE Part #462571M014  
NTRF-3/4-0-SP-CS5445

## Documents

### Product Drawings

[MINI UMNL PIN 22-18 AWG AU LF](#)

English

### CAD Files

[Customer View Model](#)

[ENG\\_CVM\\_CVM\\_1-770903-1\\_U.2d\\_dxf.zip](#)

English

[3D PDF](#)



3D

Customer View Model

[ENG\\_CVM\\_CVM\\_1-770903-1\\_U.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_1-770903-1\\_U.3d\\_stp.zip](#)

English

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

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### Datasheets & Catalog Pages

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

English

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### Product Specifications

[Application Specification](#)

English

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### Product Environmental Compliance

[MD\\_1-770903-1\\_1129201645\\_dmtec](#)

English

[MD\\_1-770903-1\\_1129201645\\_dmtec](#)

English

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### Instruction Sheets

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

English