

1-770903-0 ✓ ACTIVE

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

TE Internal #: 1-770903-0

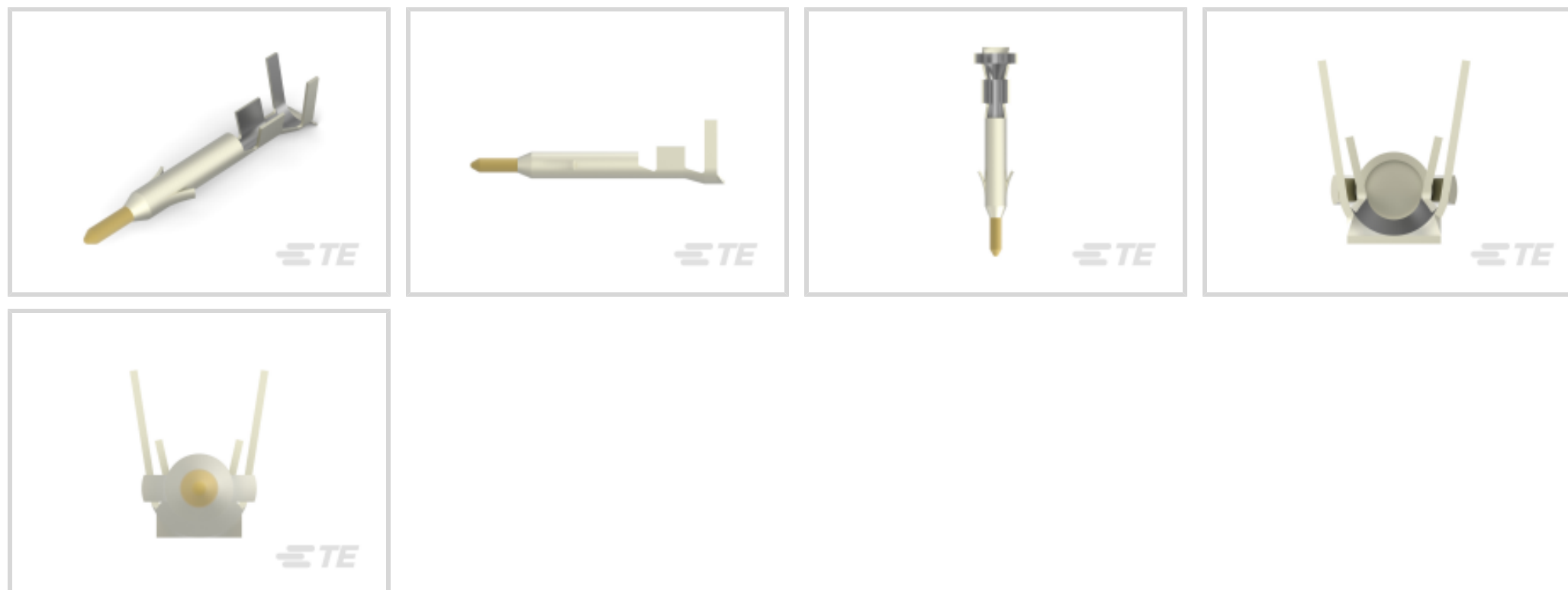
Power Contacts, Contact, 600 VAC, 600 VDC, Gold, 22 – 18 AWG

Wire Size, .3 – .9 mm² Wire Size, Wire & Cable, Crimp, Power, Mini-Universal MATE-N-LOK

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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 | Brass |
| 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 ² |
| 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) Candidate List Declared Against: JUNE 2023 (235) 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

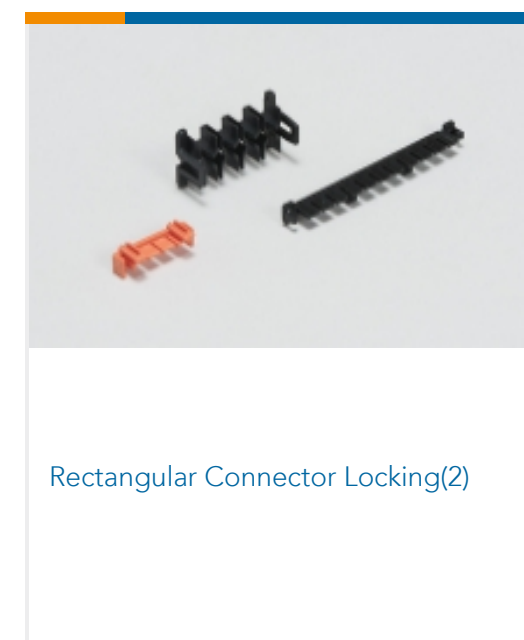
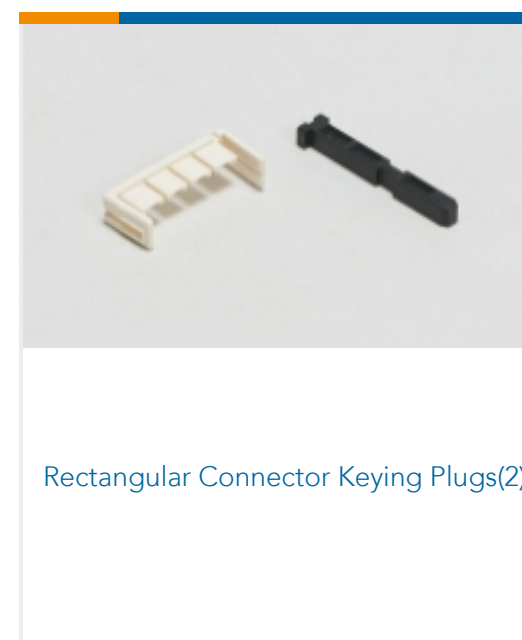
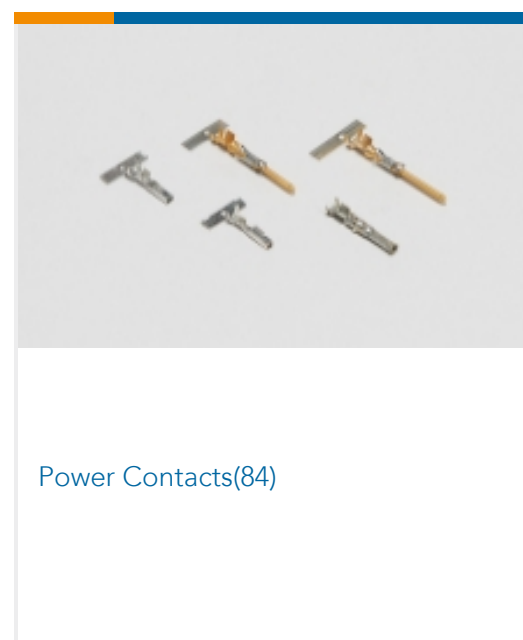
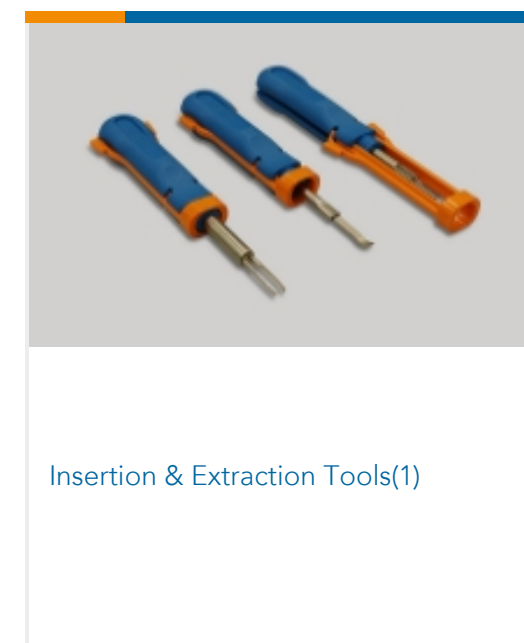
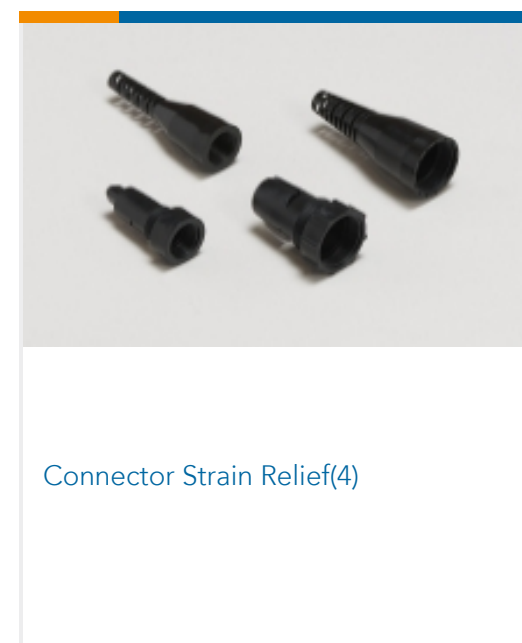
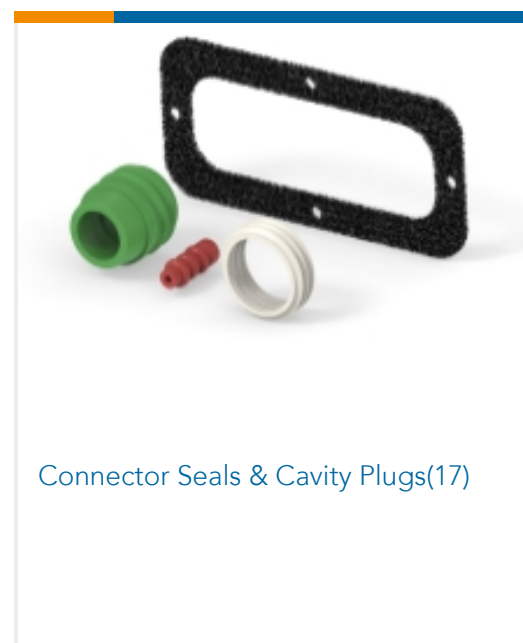
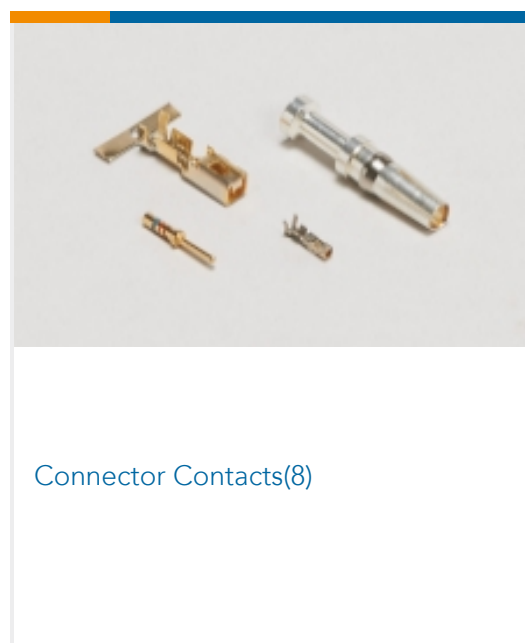
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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 # CAT-AM71-C83998EE Mini Circular Plastic Connectors (CPC)</p> | <p>TE Part # 91522-1 CCII MINI UNML PIN SKT 22-18 ASSY</p> | <p>TE Part # 90759-1 PROCRIMP TL W/DIE MIN UNIV MNL</p> | <p>TE Part # 189727-1 EXTRACTION TOOL</p> |
| <p>TE Part # 455830-1 INSERTION TOOL</p> | <p>TE Part # 770586-1 22P MINI UMNL PLUG HSG</p> | <p>TE Part # 794942-1 10P MINI UMNL CAP HSG</p> | <p>TE Part # 770587-1 24P MINI UMNL PLUG HSG</p> |



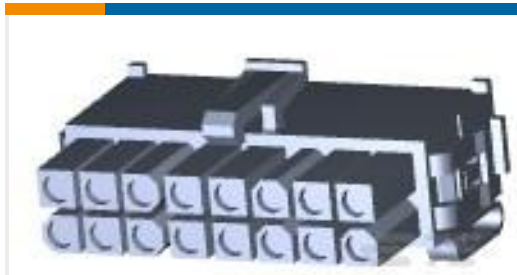
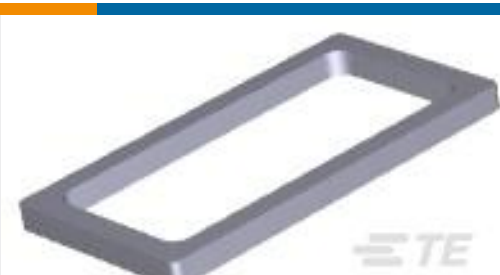
Also in the Series | Mini-Universal MATE-N-LOK





Rectangular Power Connectors(244)

Customers Also Bought

TE Part #794206-1
16P MINI UMNL2 PLUG HSG UL94V0TE Part #794772-2
02P MINI UMNL SEAL,DIE CUTTE Part #8-55847-2
22-18 PRE-INSUL SEALED TERM RTE Part #2-1601075-1
WIRE2BLADE,STD, SMZTE Part #776261-5
14POS,PIN DIA 1.3,HDR ASSY,
180DEG,COD 5TE Part #3-644038-7
07P MTA100 CONN ASSY RED 15AUTE Part #62384-1
110 FASTON TAB 22-18 AWG TPBRTE Part #1601637-1
L076/0926R16BX=MTM 1800-4600

Documents

Product Drawings

MINI UMNL PIN 22-18 AWG AU

English

CAD Files

Customer View Model

[ENG_CVM_CVM_1-770903-0_U.2d_dxf.zip](#)

English

3D PDF

3D

Customer View Model

[ENG_CVM_CVM_1-770903-0_U.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1-770903-0_U.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

Product Environmental Compliance

[MD_1-770903-0_11242015145_dmtec](#)

English

[MD_1-770903-0_11242015145_dmtec](#)

English

Instruction Sheets

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

English