

1-770903-0 ✓ ACTIVE

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

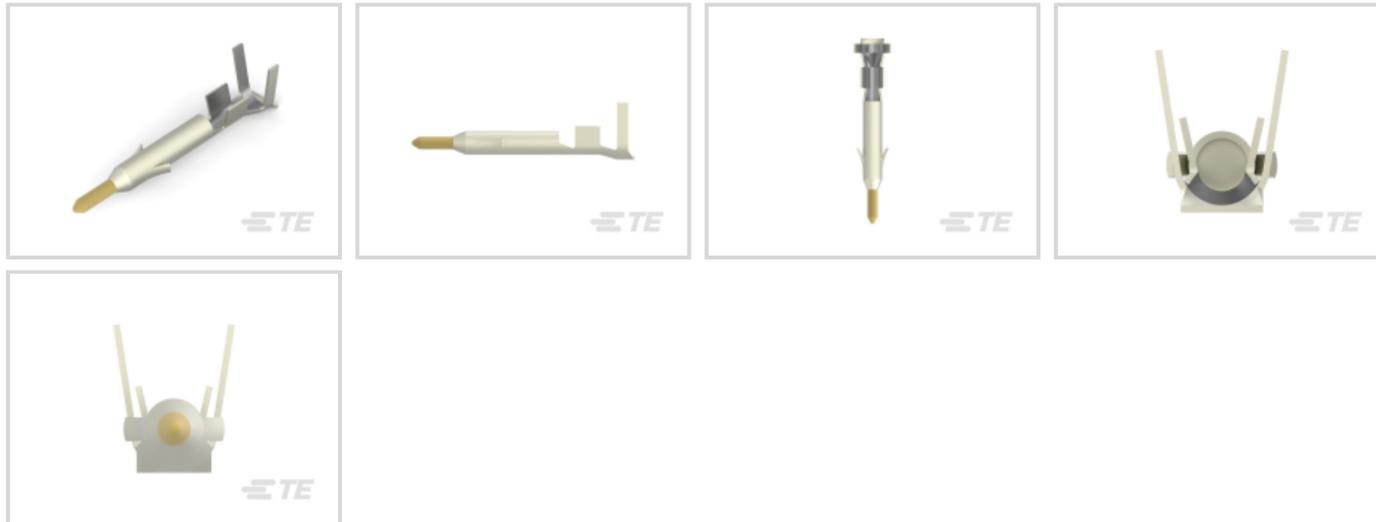
TE Internal #: 1-770903-0

Gold (Au), Pin Contact, 22 – 18 AWG, 600 VAC, 600 VDC, .3 – .9 mm² Wire, Crimp, Brass, Power, -55 – 105 °C [-67 – 221 °F], Mini-Universal MATE-N-LOK

[View on TE.com >](#)



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 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) | 11.2 A |
| Mating Pin Diameter | 1 mm [.039 in] |
| 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 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 |
|------------------------------------|-------|

| | |
|-----------------------|--------------|
| Product Terminates To | Wire & Cable |
|-----------------------|--------------|

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

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

Packaging Features

| | |
|--------------------|------|
| Packaging Quantity | 4500 |
|--------------------|------|

| | |
|------------------|------|
| Packaging Method | Reel |
|------------------|------|

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 | 有害物质含量符合标准要求 No Restricted Substance(s) Above Threshold |
|---|---|

| | |
|--|---|
| EU REACH Regulation (EC) No. 1907/2006 | Current ECHA Candidate List: JUNE 2025 (250) Candidate List Declared Against: JUNE 2025 (250) Does not contain REACH SVHC |
|--|---|

| | |
|-----------------|--|
| Halogen Content | Low Halogen - Br, Cl, F < 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 # 794440-2
MINI UMNL PIN BRASS SN UNPL



TE Part # 2354054-1
MINI UMNL SOK 20-18 AWG AU LP



TE Part # 1-172163-2
15 POS TR MINI UNIV



TE Part # 1-172328-5
2 POS SR MINI UNIV



TE Part # 2354054-2
MINI UMNL SOK 20-18 AWG SN LP



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



TE Part # 1445538-1
REC,8-2,FLNG MT,SM INS,STD KEY



TE Part # 1-770988-0
MINI UMNL SOK 22-18AWG AU



TE Part # 1445825-1
RECPT,11-9,FREE HNG,STD KEY



TE Part # 1445522-1
REC,8-2,FRE HNG,SM INS,STD KEY



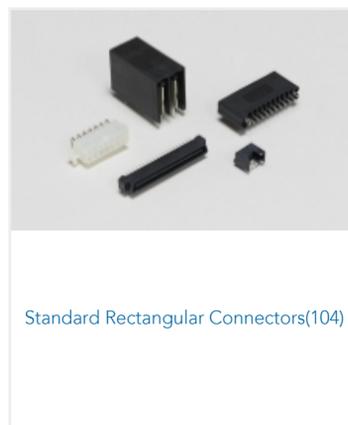
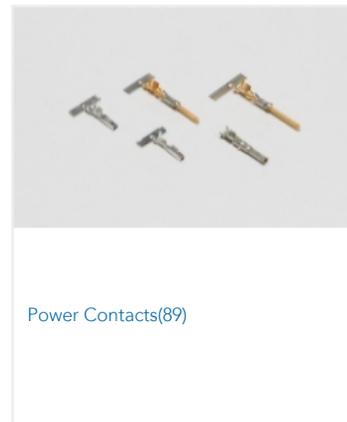
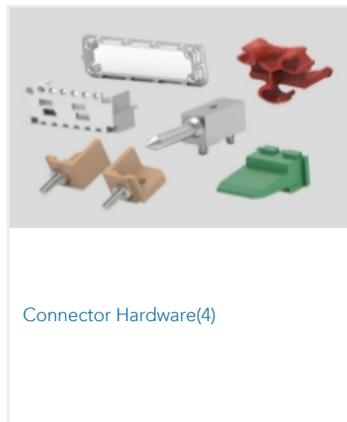
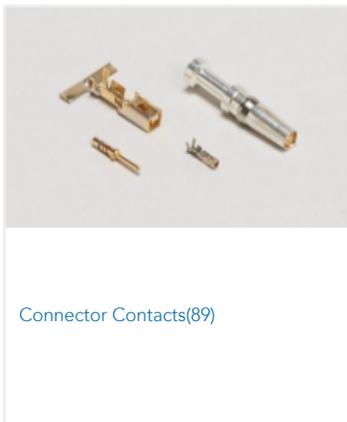
TE Part # 1445821-3
REC,11-8,FLNG MT,LG INS,STD KE



TE Part # 1445829-1
REC,11-5,FRE HNG,SM INS,STD KE



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



Customers Also Bought

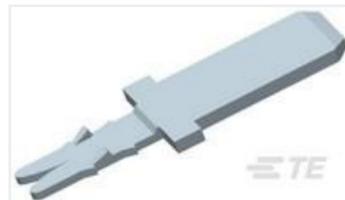




TE Part #794772-2
02P MINI UMNL SEAL,DIE CUT



TE Part #794894-3
02P MINI UMNL PLUGS WIRE HOLES



TE Part #3-1601061-2
TAB,250X032,STD,SMZ



TE Part #1658540-1
PIN CONT DUPL PLT STRIP HD-20



TE Part #B77596-000
CI-310098P1



TE Part #EA9682-000
CI-1C16520P1

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

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

1-770903-0

Gold (Au), Pin Contact, 22 – 18 AWG, 600 VAC, 600 VDC, .3 – .9 mm² Wire, Crimp,
Brass, Power, -55 – 105 °C [-67 – 221 °F], Mini-Universal MATE-N-LOK



Instruction Sheets

Instruction Sheet (U.S.)

English