

1-770903-0 ✓ ACTIVE

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

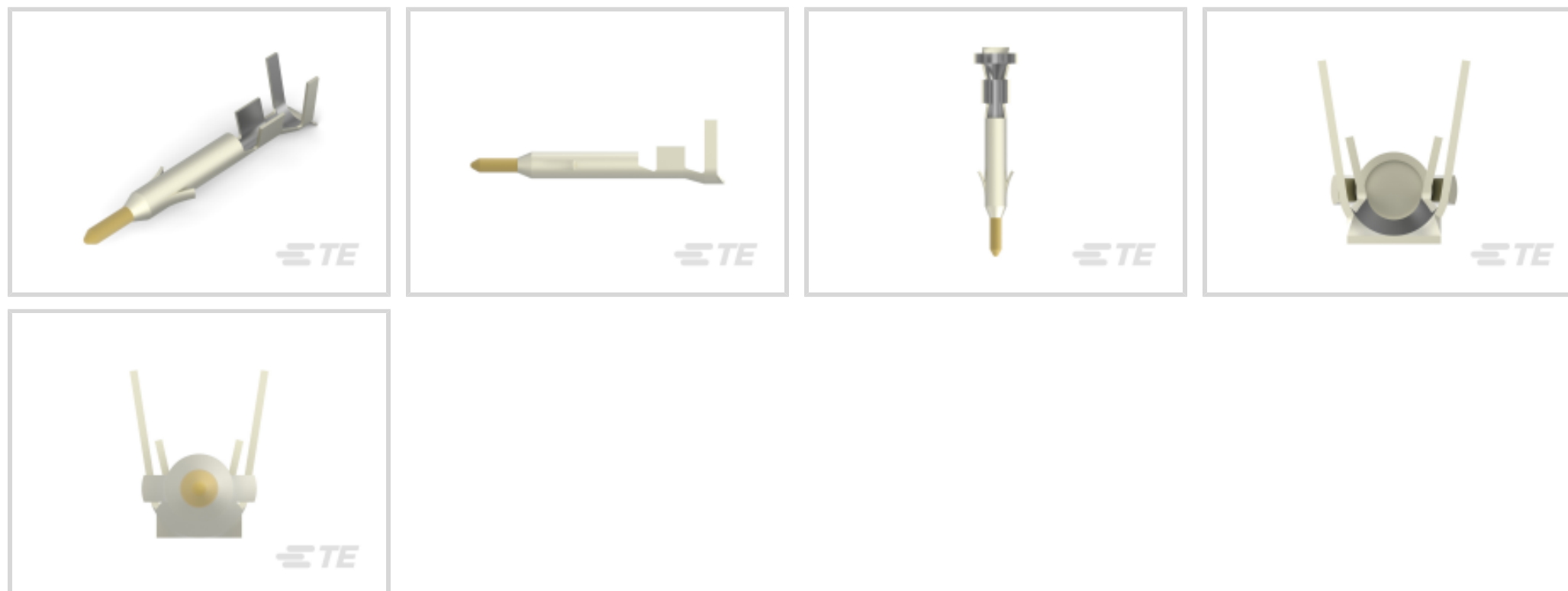
TE Internal #: 1-770903-0

Pin Contact, Gold, 600 VAC, 600 VDC, 22 – 18 AWG Wire Size, .3 – .9 mm<sup>2</sup> Wire Size, Crimp, Brass, Power, Mini-Universal MATE-N-LOK

[View on TE.com >](#)



Connectors > Contacts > Connector Contacts



Contact Type: **Pin**

Contact Mating Area Plating Material: **Gold**

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

Mating Pin Diameter

1 mm[.039 in]

Contact Underplating Material Thickness

1.27 µm[50 µin]

Wire Contact Termination Area Plating Thickness

2.54 µm[100 µin]

Wire Contact Termination Area Plating Material Finish

Bright

Contact Mating Area Plating Material Thickness

.76 µm[30 µin]

Contact Orientation

Straight

Contact Underplating Material

Nickel

Contact Type

Pin

Contact Mating Area Plating Material

Gold

Wire Contact Termination Area Plating Material

Tin

Contact Retention Within Housing

With



Contact Base Material	Brass
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Contact Current Rating (Max)	11.2 A
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### Termination Features

Termination Method to Wire & Cable	Crimp
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Product Terminates To	Wire & Cable
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### Mechanical Attachment

Wire Insulation Support	Without
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### Dimensions

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

Operating Temperature Range	-55 – 105 °C [-67 – 221 °F]
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### Operation/Application

Circuit Application	Power
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### Industry Standards

Compatible With Agency/Standards Products	CSA, UL
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### Packaging Features

Packaging Quantity	4500
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Packaging Method	Reel
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### Product Compliance

[For compliance documentation, visit the product page on TE.com>](#)

EU RoHS Directive 2011/65/EU	Compliant
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EU ELV Directive 2000/53/EC	Compliant
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China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
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EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2024 (241) Candidate List Declared Against: JUNE 2024 (241) Does not contain REACH SVHC
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Halogen Content	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
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Solder Process Capability	Not applicable for solder process capability
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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 # 2151030-1  
OCEAN\_2.0\_APPLICATOR-S-062F110F-RSM



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



TE Part # 770582-1  
14P MINI UMNL PLUG HSG



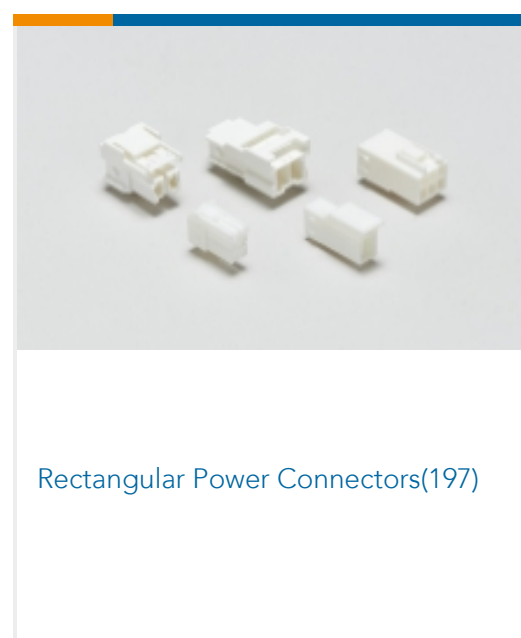
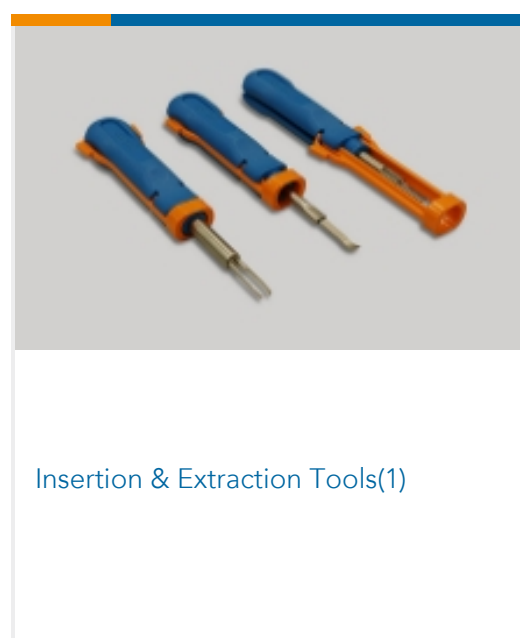
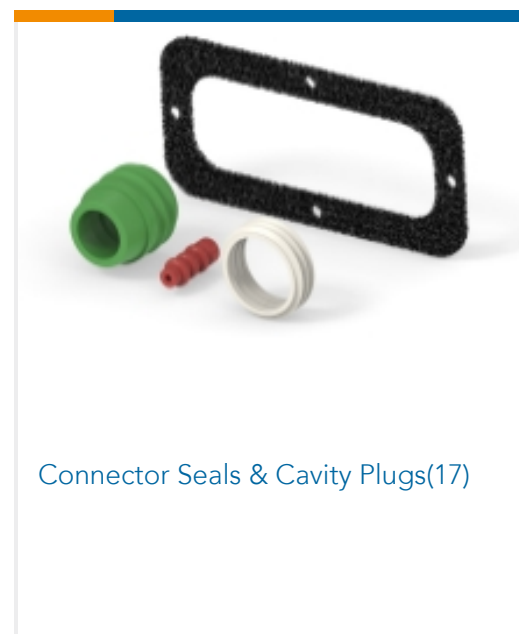
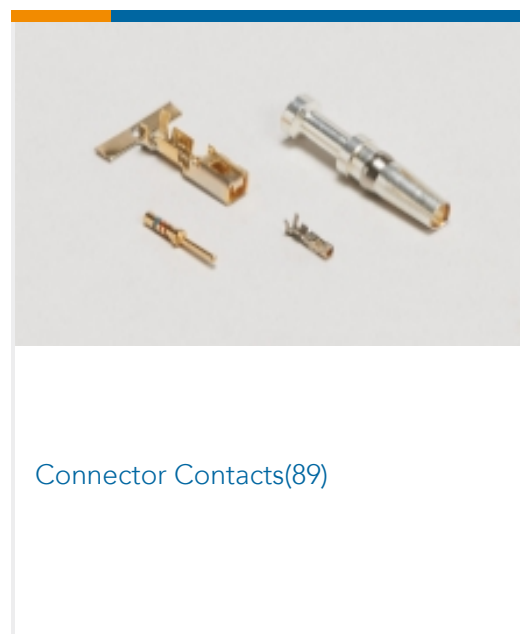
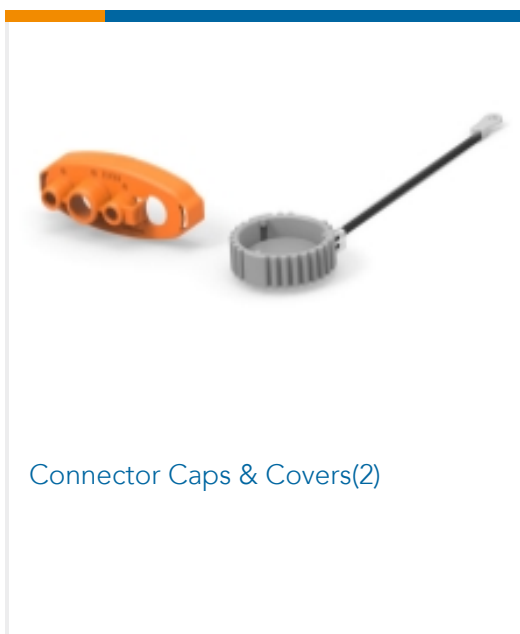
TE Part # 770585-1  
20P MINI UMNL PLUG HSG



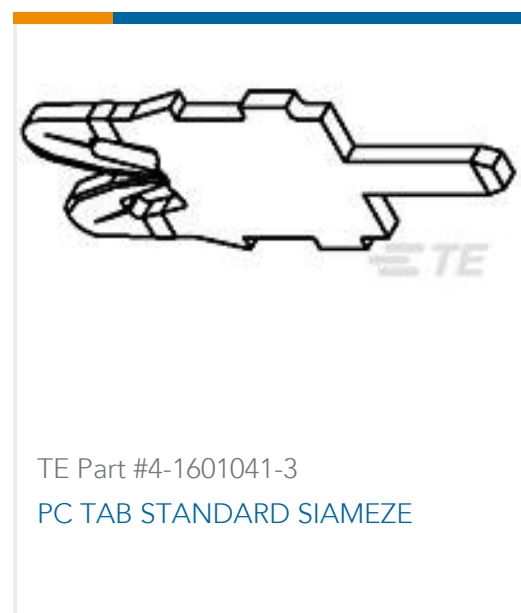
TE Part # 172333-1  
MINI UNIVERSAL M-N-L HOUSING



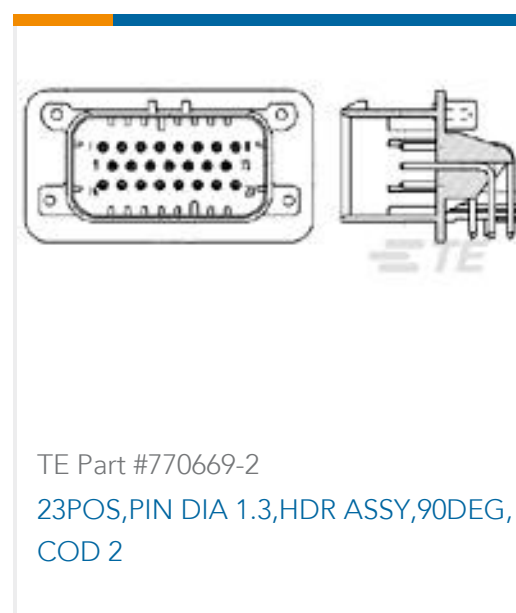
## Also in the Series | Mini-Universal MATE-N-LOK



## Customers Also Bought







## 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

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Pin Contact, Gold, 600 VAC, 600 VDC, 22 – 18 AWG Wire Size, .3 – .9 mm<sup>2</sup> Wire Size,  
Crimp, Brass, Power, Mini-Universal MATE-N-LOK



## Instruction Sheets

### Instruction Sheet (U.S.)

English