770903-1 ✔ ACTIVE

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

TE Internal #: 770903-1

Tin (Sn), 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: **Tin (Sn)**

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

Contact Type	Pin
Contact Mating Area Plating Material	Tin (Sn)
Wire Contact Termination Area Plating Material	Pre-Tin
Contact Retention Within Housing	With
Contact Base Material	Brass
Contact Current Rating (Max)	11.2 A
Mating Pin Diameter	1 mm[.039 in]
Wire Contact Termination Area Plating Thickness	2.54 µm[100 µin]
Wire Contact Termination Area Plating Material Finish	Bright
Contact Orientation	Straight

Termination Features

Termination Method to Wire & Cable	Crimp
Product Terminates To	Wire & Cable

Mechanical Attachment

Wire Insulation Support	Without

Dimensions

Wire Size	.3 – .9 mm²
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	No Restricted Materials 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 # 1-172338-4
MINI U-M-N-L PLUG 4P YELLOW

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

TE Part # 172168-1
6 CIR UNIV M-N-L PLUG

TE Part # 1445819-3
PLUG,11-6,LG INS,STD KEY

TE Part # 1445821-1
REC,11-8,FLNG MT,SM INS,STD KE

TE Part # 1445824-1
REC,11-5,FLNG MT,SM INS,STD KE

TE Part # 189727-1
EXTRACTION TOOL

TE Part # 172164-1
1 CIR UNIV M-N-L PLUG

TE Part # 172167-1
4 CIR UNIV M-N-L PLUG

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

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

TE Part # 172234-1
3P MINI UNIVERSAL MATE-N-LOK CAP HOUSING

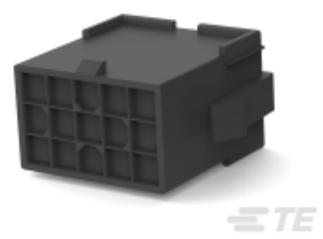
TE Part # 1-172167-9
4 POS SR MINI UNIV

TE Part # 1-172165-5
2CIR MINI U-M-N-L PLUG GREN

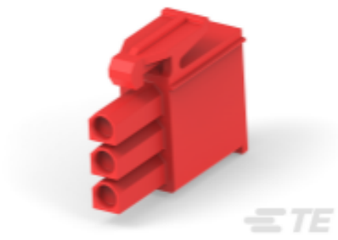
TE Part # 1-172338-2
4CIR MINI-UMNL PLUG RED

TE Part # 1-172171-9
15 POS TR MINI UNIV

TE Part # 1-172157-9
2CIR MINI U-M-N-L CAP BLCK



TE Part # 1-172163-9
MINI UNIVERSAL M-N-L CAP 15P



TE Part # 1-172166-2
MINI-U-M-N-L 3P PLUG RED

TE Part # 1586404-1
16P MINI UMNL CAP HSG SEALED

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

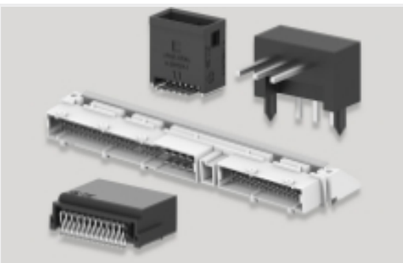
Connector Caps & Covers(2)

Connector Contacts(89)

Connector Seals & Cavity Plugs(17)

Connector Strain Relief(2)

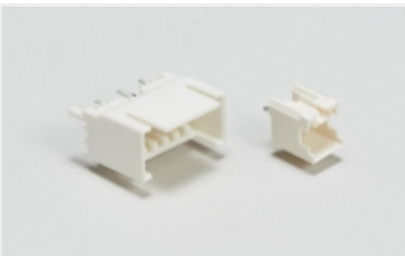
Insertion & Extraction Tools(1)



PCB Headers & Receptacles(93)

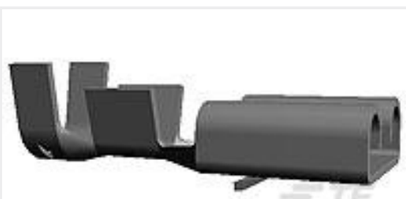
Power Contacts(89)

Rectangular Power Connectors(196)



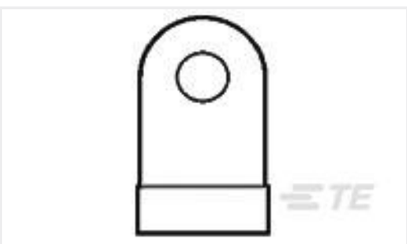
Wire-to-Board Headers & Receptacles (93)

Customers Also Bought



TE Part #160914-2
FF 250 REC 4-6MM2 TPBR

TE Part #206306-3
CPC RECPT SEALED SIZE 23-37



TE Part #321580
TERMINAL,SOLIS FLAG R 1/0 5/16

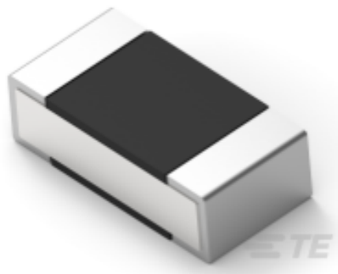
TE Part #3-640428-5
05P MTA156 CONN ASSY 22AWG RED

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

TE Part #794894-1
02P MINI UMNL PLUGS WIRE HOLES

TE Part #794941-1
08P MINI UMNL CAP HSG

TE Part #1241809-2
UMNL ST-SOCK,A-P 3P



TE Part #2176307-6
RP 1E 0.1W 14K 0.1% 25PPM 5K RL

TE Part #2359615-2
LUMAWISE ENDURANCE N+ Lt Gray Short Dome

Documents

Product Drawings

MINI UMNL PIN 22-18 AWG SN

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_770903-1_U.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_770903-1_U.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_770903-1_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

Instruction Sheets

Instruction Sheet (U.S.)

English