



MATE-N-LOK

| Mini-Universal MATE-N-LOK, Mini Circular Plastic Connectors

TE Internal #: 1-770835-0

Pin Contact, Gold (Au), 600 VAC, 600 VDC, 30 – 26 AWG, .05 – .15 mm² Wire, Crimp, Brass, Power, -55 – 105 °C [-67 – 221 °F], Mini-Universal MATE-N-LOK

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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
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Electrical Characteristics

Operating Voltage	600 VDC
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Contact Features

Contact Underplating Material	Nickel
Contact Orientation	Straight
Mating Pin Diameter	1 mm[.039 in]
Contact Underplating Material Thickness	1.27 µm[50 µin]
Contact Mating Area Plating Material Thickness	.76 µm[30 µin]
Wire Contact Termination Area Plating Material Finish	Matte
Wire Contact Termination Area Plating Thickness	2.54 µm[100 µin]
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

Termination Features

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

Mechanical Attachment

Wire Insulation Support	Without
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Dimensions

Compatible Insulation Diameter Range	.89 – 1.27 mm[.035 – .05 in]
Wire Size	.05 – .15 mm²

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
UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Quantity	10000
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: JAN 2025 (247) Candidate List Declared Against: JAN 2025 (247) 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 reviewed 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 # 1-172163-2 15 POS TR MINI UNIV	 TE Part # 1-172328-5 2 POS SR MINI UNIV	 TE Part # 2266136-2 OCEAN_2.0_Applicator-S-042F070F-RSA	 TE Part # 1-172337-4 MINI U-M-N-L PLUG 3P YELLOW
 TE Part # 2266136-1 OCEAN_2.0_Applicator-S-042F070F-RSM	 TE Part # 172331-1 MINI UNIVERSAL MATE-N-LOK CAP HOUSING 6P	 TE Part # 1-172160-9 MINI UNIVERSAL M-N-L CAP 6P	 TE Part # 1-172168-9 MINI UNIVERSAL M-N-L PLUG 6P
 TE Part # 1-172162-2 12 POS TR MINI UNIV	 TE Part # 1-172165-2 2CIR MINI U-M-N-L PLUG RED	 TE Part # 1445390-1 PLUG,8-4,SM INS,STD KEY	 TE Part # 1445510-3 REC,8-3,FRE HNG,LG INS,STD KEY



TE Part # 1445822-1
REC,11-7,FLNG MT,SM INS,STD KE



TE Part # 172156-1
1 CIR UNIV M-N-L CAP



TE Part # 172169-1
9 CIR UNIV M-N-L PLUG



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



TE Part # 1445820-1
PLUG,11-5,SM INS,STD KEY



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

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



Connector Caps & Covers(2)



Connector Contacts(20)



Connector Hardware(4)



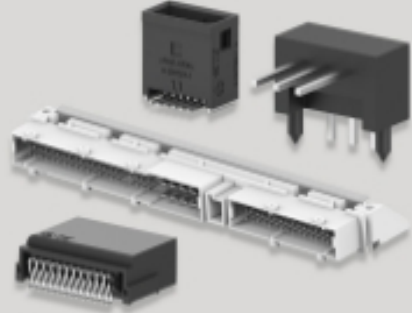
Connector Seals & Cavity Plugs(17)



Connector Strain Relief(2)



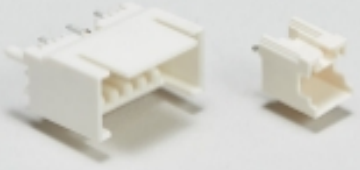
Insertion & Extraction Tools(1)



PCB Headers & Receptacles(93)



Rectangular Power Connectors(196)



Wire-to-Board Headers & Receptacles
(93)

Also in the Series | Mini Circular Plastic Connectors



Circular Power Connectors(40)



Connector Contacts(20)



Power Contacts(20)

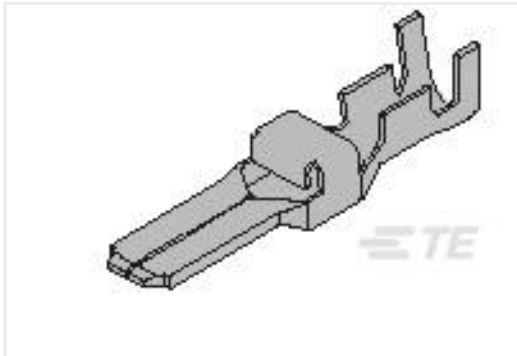
Customers Also Bought



TE Part #CAT-HST-VERSAFITV2
Versafit-V2 Heat Shrink Tubing



TE Part #1-480722-0
04P CMNL PLUG HSG W/LCK NATL



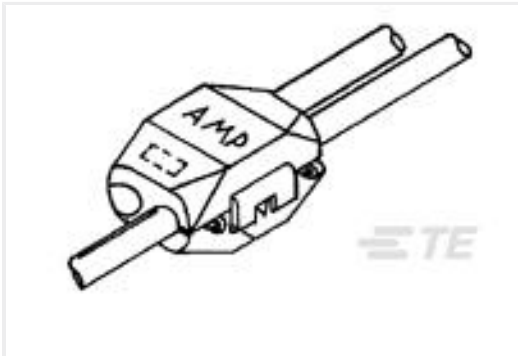
TE Part #84695-1
D5000 TAB CONT M LONG REEL AU PLATING



TE Part #1-178128-5
DYNAMIC 3200 REC HSG 5P X



TE Part #1-770834-0
MINI UMNL SOK AU LF



TE Part #171425-1
ELECTRO-TAP SPLICE

Documents

Product Drawings
MINI UMNL PIN AU LF

English

CAD Files
3D PDF

English

Customer View Model
ENG_CVM_1-770835-0_H.3d_igs.zip

English

Customer View Model
ENG_CVM_1-770835-0_H.3d_stp.zip

English

Customer View Model
ENG_CVM_1-770835-0_H.2d_dxf.zip

English



3D PDF

3D

Customer View Model

ENG_CVM_CVM_1-770835-0_M.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1-770835-0_M.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1-770835-0_M.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