171639-1 ✓ ACTIVE

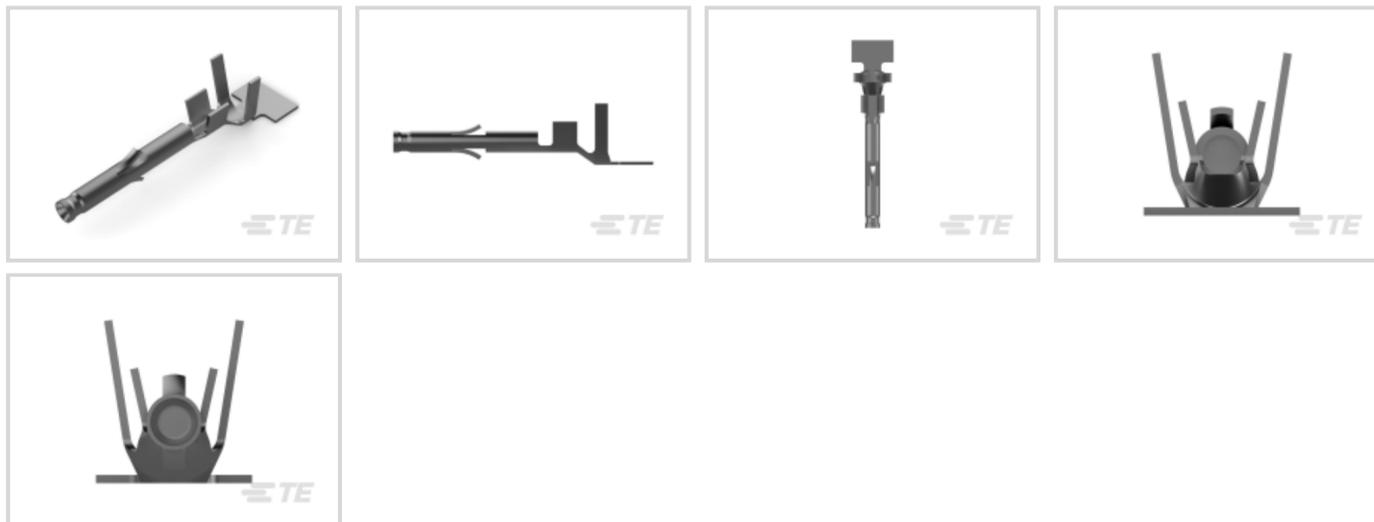## MATE-N-LOK | Mini-Universal MATE-N-LOK

TE Internal #: 171639-1

Power Contacts, Contact, 600 VAC, 600 VDC, Tin, 20 – 16 AWG
Wire Size, .5 – 1.3 mm² Wire Size, Wire-to-Wire, Wire & Cable, Mini-
Universal MATE-N-LOK

View on TE.com >

Connectors > Power Connectors > Power Contacts

Power Contact Type: **Contact**

Operating Voltage: **600 VDC**

Contact Mating Area Plating Material: **Tin**

Wire Size: **20 – 16 AWG**

Features

Product Type Features

Power Contact Type	Contact
Connector System	Wire-to-Wire
Connector & Contact Terminates To	Wire & Cable

Electrical Characteristics

Operating Voltage	600 VDC

Contact Features

Contact Mating Area Plating Material	Tin
Contact Current Rating (Max)	7 A
Contact Type	Socket
Contact Retention Within Housing	With
Mating Pin Diameter	1 mm[.039 in]
Contact Base Material	Brass
Contact Mating Area Plating Material Thickness	.8 μm[31.49 μin]
Wire Contact Termination Area Plating Thickness	.8 μm[31.49 μin]
Wire Contact Termination Area Plating Material	Pre-Tin

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Wire Contact Termination Area Plating Material Finish	Matte
Contact Orientation	Straight

Termination Features

Termination Method to Wire & Cable	Crimp

Mechanical Attachment

Connector Mounting Type	Cable Mount (Free-Hanging)
Wire Insulation Support	Without

Dimensions

Wire Size	.5 – 1.3 mm²
Accepts Wire Insulation Diameter Range	2 – 3.2 mm, 2.4 mm[.079 – .126 in][.094 in]

Usage Conditions

Operating Temperature Range	-20 – 105 °C[-4 – 221 °F]

Operation/Application

Circuit Application	Power

Industry Standards

CSA Rating	Certified
Glow Wire Rating	Standard Part - Not Glow Wire
VDE Tested	No
Agency/Standard	CSA, UL
CSA File Number	LR 7189
UL Rating	Recognized
UL File Number	E28476

Packaging Features

Packaging Method	Bag
Packaging Quantity	300

Other

Wire/Cable Type	Discrete Wire
Wire Type	Stranded
For Use With	Plug Housing

Product Compliance

For compliance documentation, visit the product page on TE.com>

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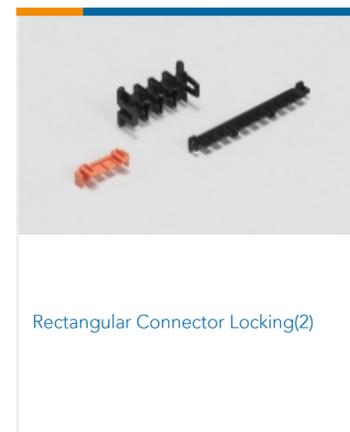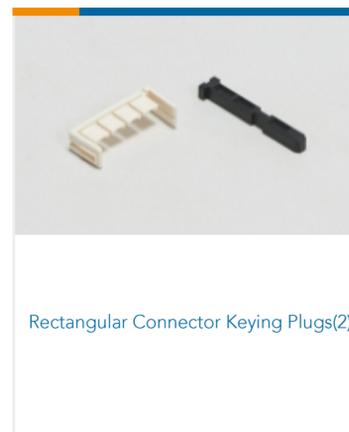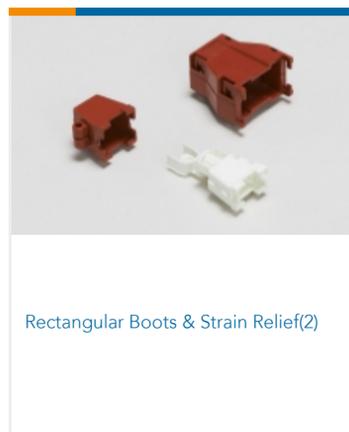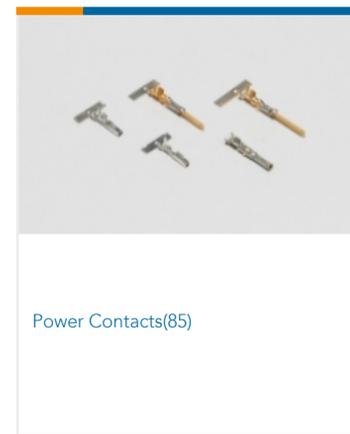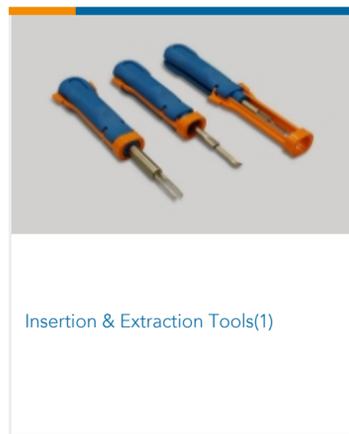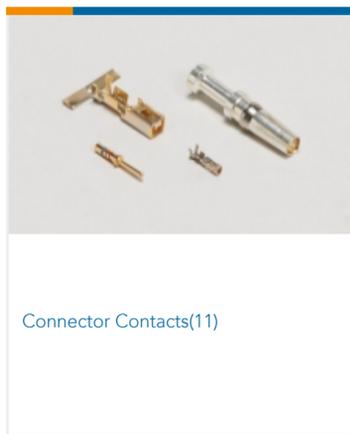|	
EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2022 (224) Candidate List Declared Against: JUNE 2022 (224) Does 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

TE Part # 91536-1
CCII MINI-UMNL PIN 20-18 16-20x2 ASSY

TE Part # 189727-1
EXTRACTION TOOL

TE Part # 770586-1
22P MINI UMNL PLUG 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

TE Part # 770581-1
12P MINI UMNL PLUG HSG

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TE Part # 770580-1
10P MINI UMNL PLUG HSG

TE Part # 770584-1
18P MINI UMNL PLUG HSG

TE Part # 172328-1
MINI UNIVERSAL MATE-N-LOK CAP HOUSING 2P

TE Part # 172330-1
MINI UNIVERSAL MATE-N-LOK CAP HOUSING 4P

TE Part # 172344-1
MINI UNIVERSAL MATE-N-LOK CAP HOUSING 3P

TE Part # 172170-1
12 CIR UNIV M-N-L PLUG

TE Part # 172337-1
MINI UMNL PLUG HOUSING 3P

TE Part # 172171-1
15 CIR UNIV M-N-L PLUG

TE Part # 172162-1
12 CIR UNIV M-N-L CAP

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

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

TE Part # 172340-1
MINI UMNL PLUG HOUSING 9P

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

Connector Contacts(11)

Insertion & Extraction Tools(1)

PCB Headers & Receptacles(1)

Power Contacts(85)

Rectangular Backshells & Clamps(2)

Rectangular Boots & Strain Relief(2)

Rectangular Connector Keying Plugs(2)

Rectangular Connector Locking(2)

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Rectangular Connector Seals(20)

Rectangular Power Connectors(283)

Documents

CAD Files
Customer View Model

ENG_CVM_CVM_171639-1_A.2d_dxf.zip

English

3D PDF

3D

Customer View Model

ENG_CVM_CVM_171639-1_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_171639-1_A.3d_stp.zip

English

By downloading the CAD file I accept and agree to the **Terms and Conditions** of use.

Datasheets & Catalog Pages

SOFT_SHELL_PIN_AND_SOCKET_CONNECTORS_CATALOG

English

1-1773458-0_MINI_UNIVERSAL_MATE_N_LOK_CONNECTOR_SYSTEM_QRG

English

Product Specifications

Crimping of Mini-Universal MATE-N-LOK Contact

Japanese

Application Specification

Japanese

Product Environmental Compliance

MD_171639-1_033020181337_dmtec

English

MD_171639-1_033020181337_dmtec

English

Instruction Sheets

Instruction Sheet (non U.S.)

Japanese

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mm² Wire Size, Wire-to-Wire, Wire & Cable, Mini-Universal MATE-N-LOK

Mini-Universal MATE-N-LOK Connector

Japanese