

170147-1 ✓ ACTIVE

MATE-N-LOK | Commercial MATE-N-LOK

TE Internal #: 170147-1

Power Contacts, Contact, 250 VAC, 250 VDC, Pre-Tin, 24 – 18 AWG

Wire Size, .2 – .82 mm<sup>2</sup> Wire Size, Wire-to-Wire, Wire & Cable,

Commercial MATE-N-LOK

[View on TE.com >](#)



Connectors > Power Connectors > Power Contacts



Power Contact Type: **Contact**

Operating Voltage: **250 VDC**

Contact Mating Area Plating Material: **Pre-Tin**

Wire Size: **24 – 18 AWG**

## Features

### Product Type Features

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

### Electrical Characteristics

Operating Voltage	250 VDC
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### Contact Features

Contact Mating Area Plating Material	Pre-Tin
Contact Current Rating (Max)	13 A
Contact Type	Socket
Contact Retention Within Housing	With
Mating Pin Diameter	2.1 mm[.082 in]
Contact Base Material	Brass
Wire Contact Termination Area Plating Thickness	.4 μm[15.74 μin]
Wire Contact Termination Area Plating Material	Pre-Tin
Wire Contact Termination Area Plating Material Finish	Matte



Contact Orientation	Straight
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### Termination Features

Termination Method to Wire & Cable	Crimp
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### Mechanical Attachment

Contact Retention Type Within Housing	Locking Lance
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Connector Mounting Type	Cable Mount (Free-Hanging)
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Wire Insulation Support	Without
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### Dimensions

Wire Size	.2 – .82 mm <sup>2</sup>
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Accepts Wire Insulation Diameter Range	2.54 mm[.1 in]
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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

Glow Wire Rating	Standard Part - Not Glow Wire
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VDE Tested	No
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### Packaging Features

Packaging Method	Reel
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Packaging Quantity	7000
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### Other

Wire/Cable Type	Discrete Wire
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Wire Type	Stranded
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For Use With	Commercial MATE-N-LOK housings
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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 2022 (224)
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Candidate List Declared Against: JAN 2022  
(223)  
SVHC > Threshold:  
Not Yet Reviewed

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

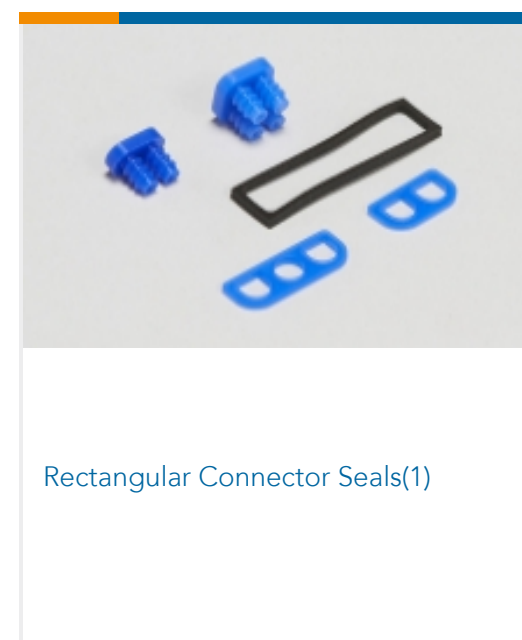
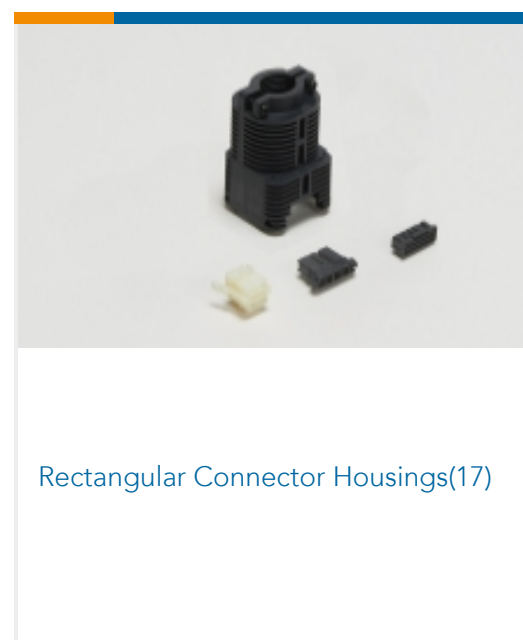
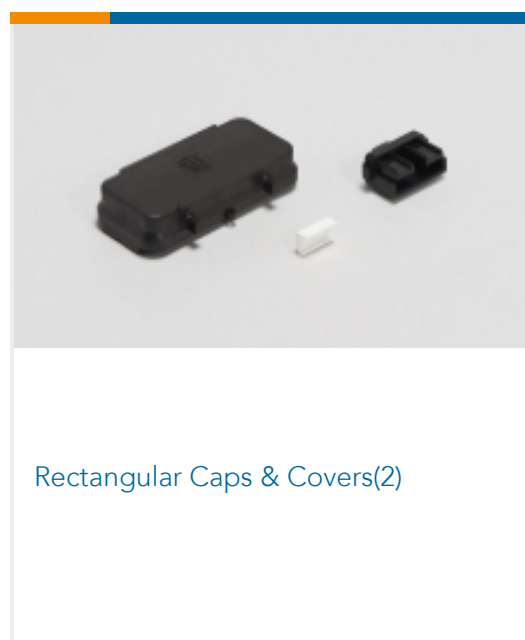
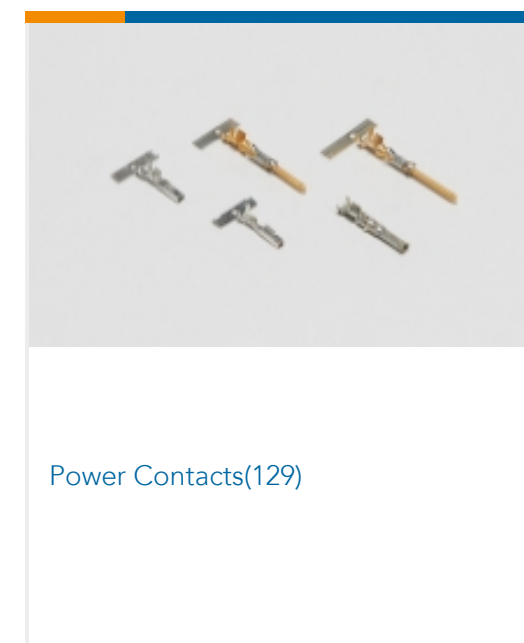
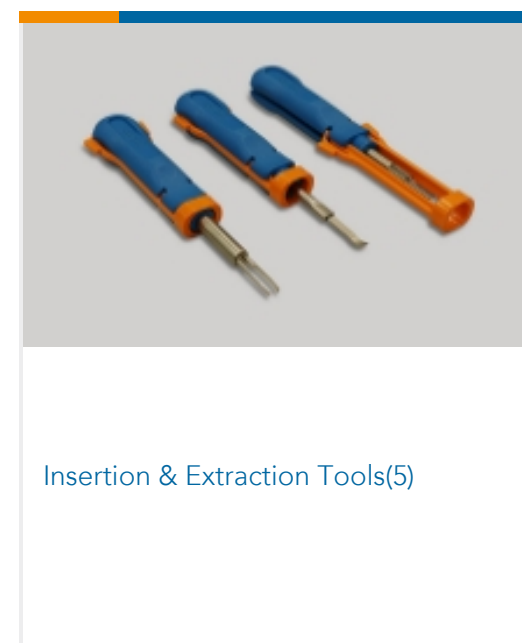
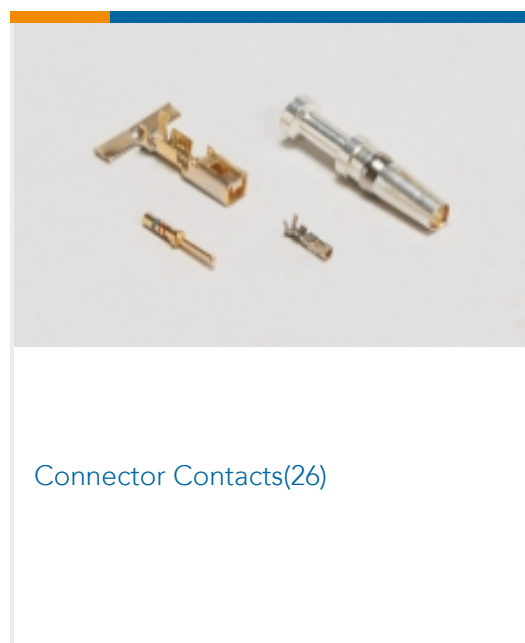
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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

 <p>TE Part # 1-171196-0 6 POS MATE-N-LOK S</p>	 <p>TE Part # 1-480274-0 09P CMNL PLUG HSG P/M NATL</p>	 <p>TE Part # 1-480284-0 08P CMNL CAP HSG M/M NATL</p>	 <p>TE Part # 1-480438-0 16P CMNL PLUG HSG M/M NATL</p>
 <p>TE Part # 1-480683-0 02P CMNL PLUG HSG F/H NATL</p>	 <p>TE Part # 1-480277-0 09P CMNL CAP HSG P/M NATL</p>	 <p>TE Part # 1-480304-0 03P CMNL PLUG HSG P/M NATL</p>	 <p>TE Part # 1-480722-0 04P CMNL PLUG HSG W/LCK NATL</p>



## Also in the Series | Commercial MATE-N-LOK







Standard Circular Connectors(4)

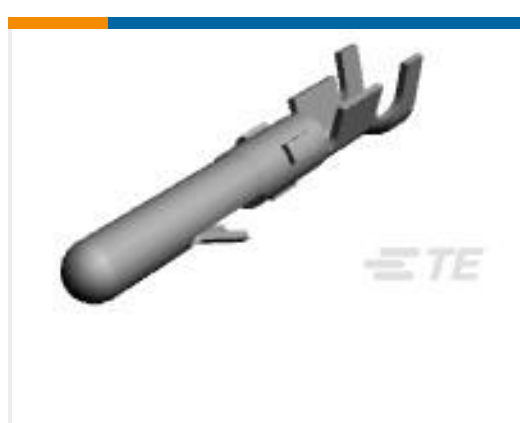


Standard Rectangular Connectors(10)



Wire-to-Board Connector Contacts(1)

## Customers Also Bought

TE Part #170924-1  
MNL 2 POS NATURAL PIN HSGTE Part #1-480318-0  
02P CMNL PLUG HSG F/H NATLTE Part #170360-4  
MINI UNIVERSAL M-N-L PINTE Part #1-1600960-8  
CONT 8-10 AWG PWR, STD PLATE &TE Part #61118-4  
CMNL PIN 20-14 TPPHBZTE Part #61116-1  
CMNL PIN 24-18 PTBRTE Part #1600903-1  
2NDARY RCPT PWR VERT BLKHED MTTE Part #1600902-1  
INSERT MBXL 2 SIGNAL LOCK 4POSTE Part #NB19352001  
RNF-100-1/8-WH-STKTE Part #1892829-1  
RECEPT ASSY ,MOUNTING HOLE

## Documents

### Product Drawings

[MATE-N-LOK SOCKET 2](#)

English

### CAD Files

[3D PDF](#)

English

### Customer View Model

[ENG\\_CVM\\_170147-1\\_A3.2d\\_dxf.zip](#)



English

Customer View Model

[ENG\\_CVM\\_170147-1\\_A3.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_170147-1\\_A3.3d\\_stp.zip](#)

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

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### Product Specifications

Product Specification

English

[MATE-N-LOK CONNECTOR](#)

English

[MATE-N-LOK CONNECTOR](#)

Japanese

Product Specification

Japanese

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### Product Environmental Compliance

[MD\\_170147-1\\_021320181233\\_dmtec](#)

English

[MD\\_170147-1\\_021320181233\\_dmtec](#)

English

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### Agency Approvals

Agency Approval Document

English