

170120-1 ✓ ACTIVE

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

TE Internal #: 170120-1

Power Contacts, Contact, 250 VAC, 250 VDC, Tin, 20 – 14 AWG

Wire Size, .52 – 2.27 mm<sup>2</sup> Wire Size, Wire & Cable, Crimp, Power,

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: **Tin**

Wire Size: **20 – 14 AWG**

## Features

### Product Type Features

Compatible With Discrete Wire Type	Stranded
Power Contact Type	Contact
Connector & Contact Terminates To	Wire & Cable

### Electrical Characteristics

Operating Voltage	250 VDC
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### Contact Features

Contact Mating Area Plating Material	Tin
Contact Current Rating (Max)	10 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	Bright



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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Wire Insulation Support	Without
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### Dimensions

Wire Size	.52 – 2.27 mm <sup>2</sup>
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Compatible Insulation Diameter Range	3.3 mm [.13 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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### Packaging Features

Packaging Quantity	5000
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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 2023 (235) Candidate List Declared Against: JUNE 2023 (235) 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 # 1-480721-0  
03P CMNL PLUG HSG W/LOK NATL



TE Part # 1-480323-0  
15P CMNL PLUG HSG P/M NATL

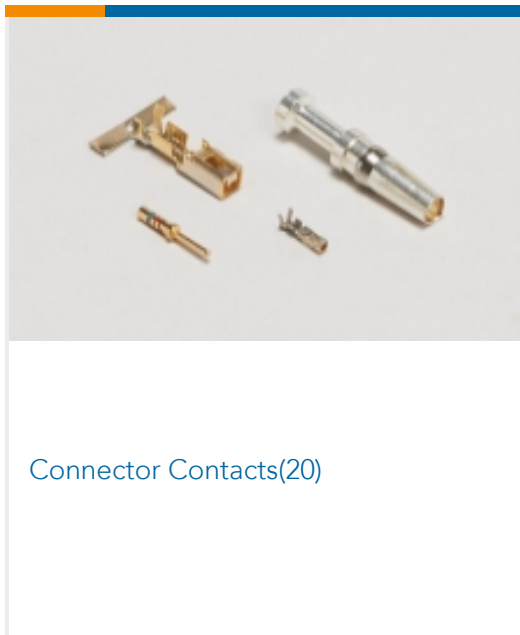


TE Part # 170924-1  
MNL 2 POS NATURAL PIN HSG

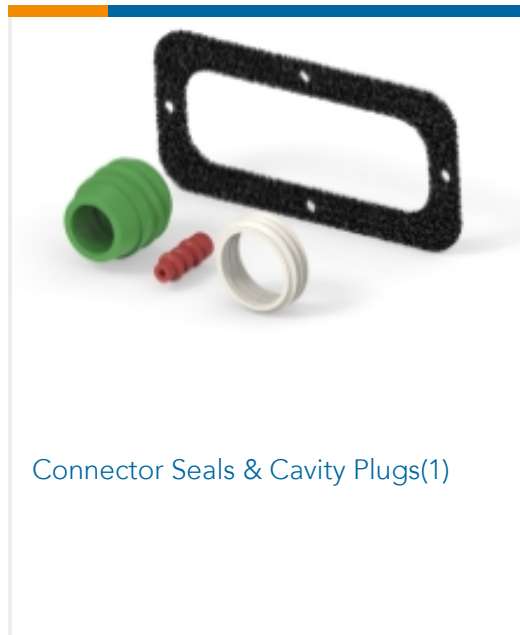


TE Part # 1-480426-0  
04P CMNL CAP HSG F/H NATL

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



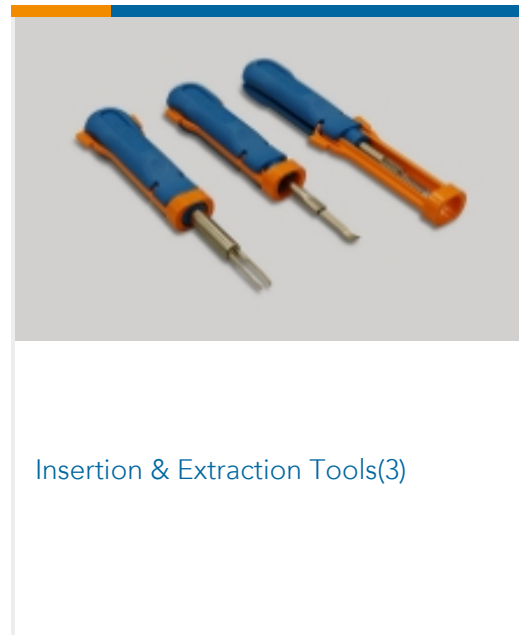
Connector Contacts(20)



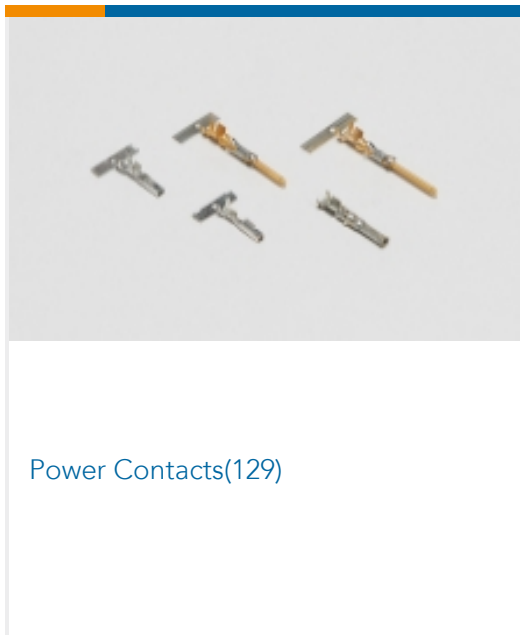
Connector Seals & Cavity Plugs(1)



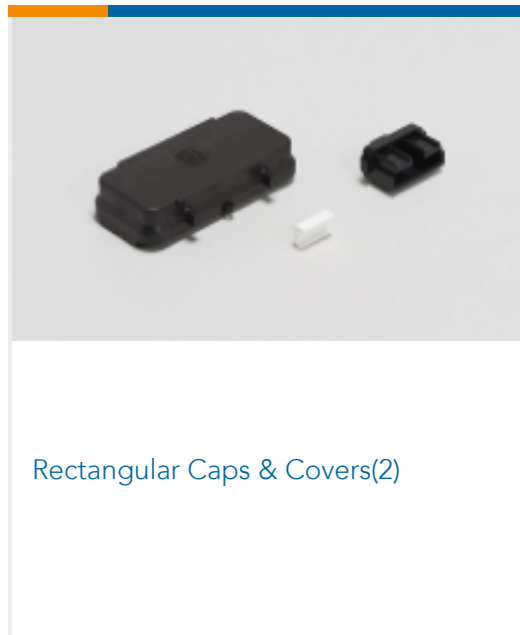
Crimp Wire Pins, Tabs & Ferrules(2)



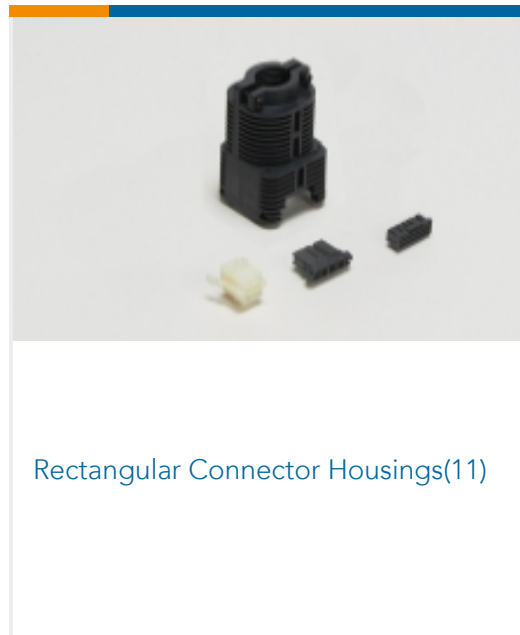
Insertion & Extraction Tools(3)



Power Contacts(129)



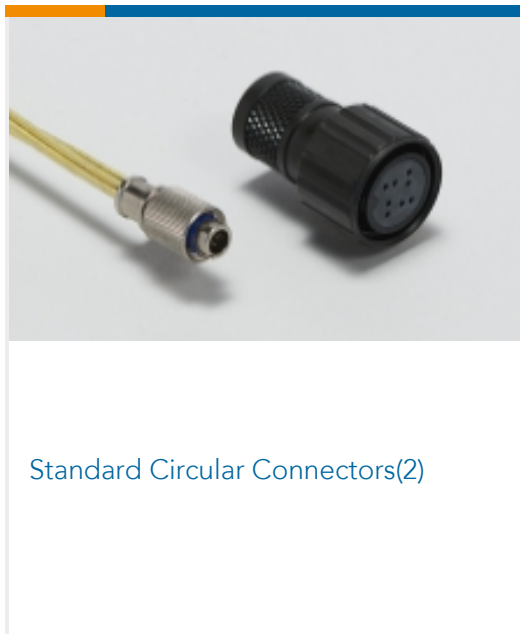
Rectangular Caps & Covers(2)



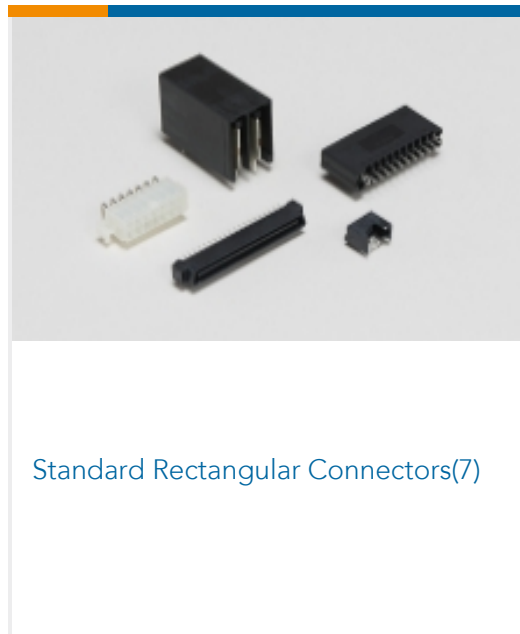
Rectangular Connector Housings(11)



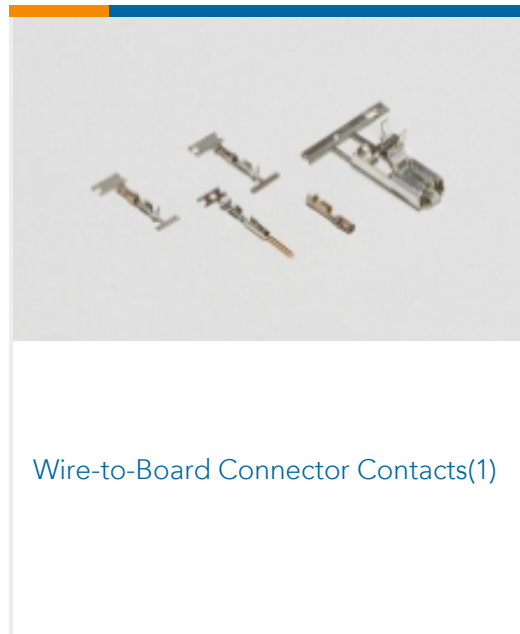
Rectangular Power Connectors(169)



Standard Circular Connectors(2)



Standard Rectangular Connectors(7)



Wire-to-Board Connector Contacts(1)

## Customers Also Bought



TE Part #917241-8  
DYNAMIC D-3500 TAB HSG 20P



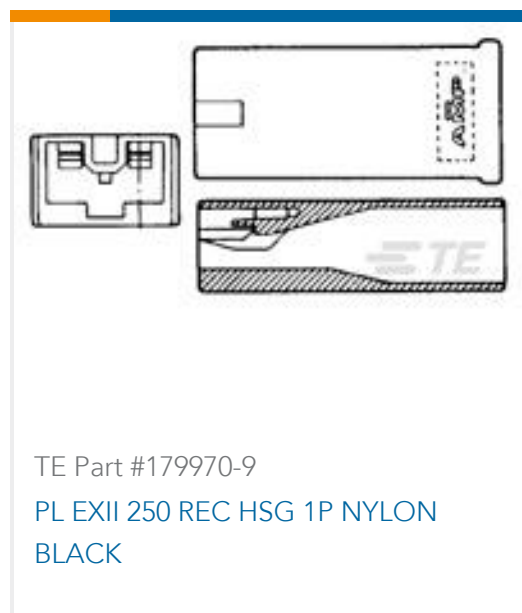
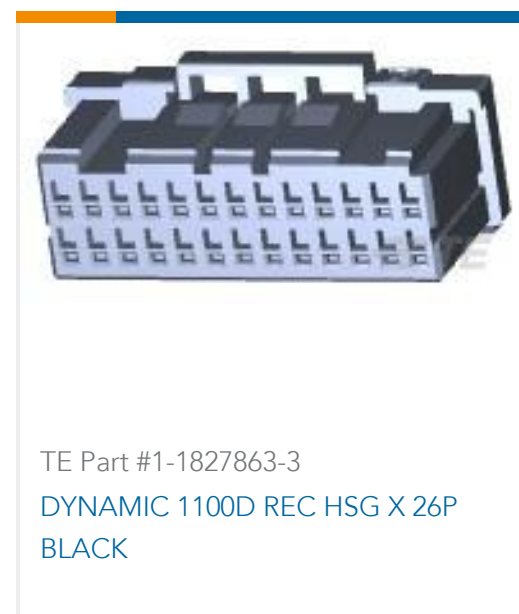
TE Part #175286-2  
Contact: Component To Wire; 15A, 28-14 wire size



TE Part #177898-1  
POWER DBL LOCK PLUG HSG 2P



TE Part #177915-2  
AMP POWER DBL LOCK REC



## Documents

### Product Drawings

#### MATE-N-LOK SOCKET 2

English

### CAD Files

#### 3D PDF

English

#### Customer View Model

[ENG\\_CVM\\_170120-1\\_C.2d\\_dxf.zip](#)

English

#### Customer View Model

[ENG\\_CVM\\_170120-1\\_C.3d\\_igs.zip](#)

English

#### Customer View Model

[ENG\\_CVM\\_170120-1\\_C.3d\\_stp.zip](#)

English

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

### Product Specifications

#### Application Specification

English

### Agency Approvals

#### Agency Approval Document

English