

**WIN***SOURCE*  
**ELECTRONICS**

**THE DATASHEET OF**  
**1-770986-0**



1-770986-0 ✓ ACTIVE



## MATE-N-LOK

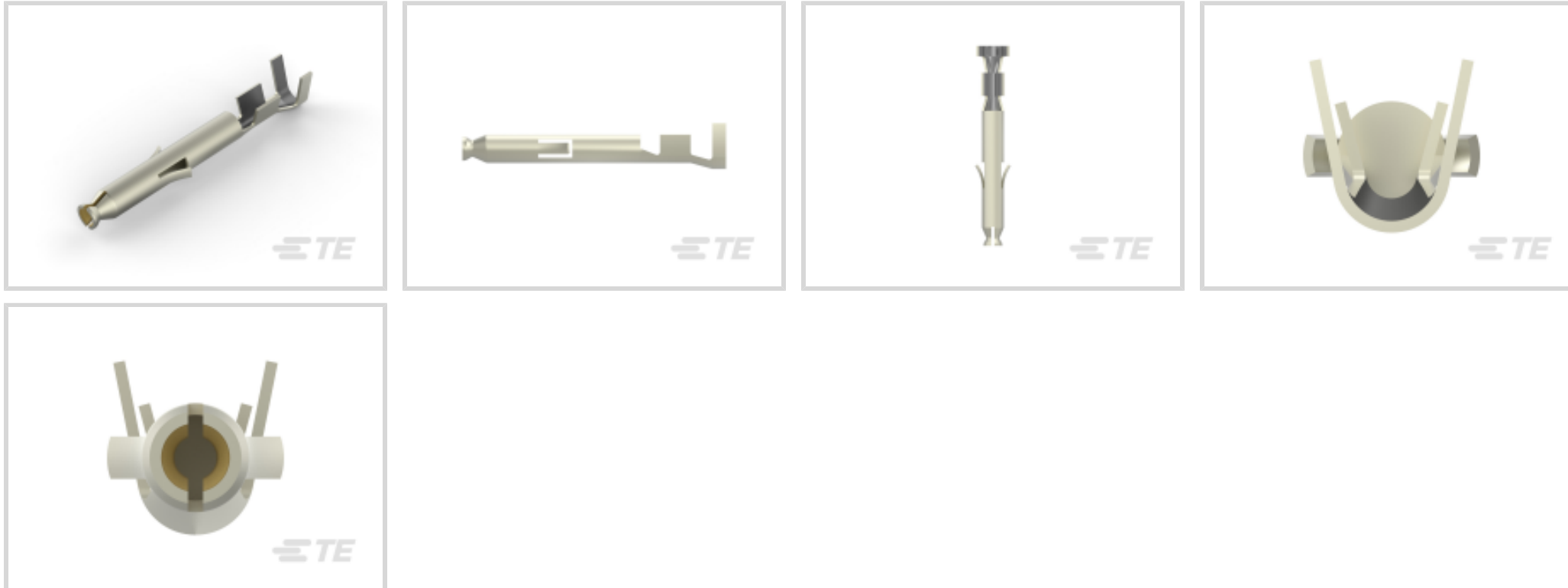
| Mini-Universal MATE-N-LOK, Mini Circular Plastic Connectors

TE Internal #: 1-770986-0

Socket Contact, Gold (Au), 600 VAC, 600 VDC, 26 – 22 AWG, .12 – .4 mm<sup>2</sup> Wire, Crimp, Brass, Power, Mini-Universal MATE-N-LOK

[View on TE.com >](#)

Connectors > Contacts > Connector Contacts



Contact Type: **Socket**

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	Bright
Wire Contact Termination Area Plating Thickness	2.54 µm [100 µin]
Contact Type	Socket
Contact Mating Area Plating Material	Gold (Au)
Wire Contact Termination Area Plating Material	Tin
Contact Retention Within Housing	With



Contact Base Material	Brass
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Contact Current Rating (Max)	9.5 A
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### Termination Features

Termination Method to Wire & Cable	Crimp
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Product Terminates To	Wire & Cable
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### Mechanical Attachment

Wire Insulation Support	Without
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### Dimensions

Compatible Insulation Diameter Range	1.19 – 1.75 mm [.047 – .069 in]
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Wire Size	.12 – .4 mm <sup>2</sup>
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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

Compatible With Agency/Standards Products	CSA, UL
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UL Flammability Rating	UL 94V-0
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### Packaging Features

Packaging Quantity	1000
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Packaging Method	Bag
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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: JAN 2025 (247) Candidate List Declared Against: JUNE 2024 (241) 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

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 # 1-172164-2  
MINI UNIVERSAL M-N-L PLUG 1P



TE Part # 1-172157-6  
2CIR MINI U-M-N-L CAP BLUE



TE Part # 1445816-3  
RECPT,11-9,FLNG MT,STD KEY



TE Part # 1-172332-9  
MUMNL PM CAP 9P



TE Part # 172166-1  
3 CIR UNIV M-N-L PLUG



TE Part # 172327-1  
UNIV M-N-L HSG



TE Part # 172343-1  
MINI UNIVERSAL M-N-L HOUSING



TE Part # 1-172169-2  
MINI UNIVERSAL M-N-L PLUG 9P



TE Part # 1-172330-9  
UNIVERSAL MATE-N-LOK CAP 4P



TE Part # 1-172165-6  
2CIR MINI U-M-N-L PLUG BLUE



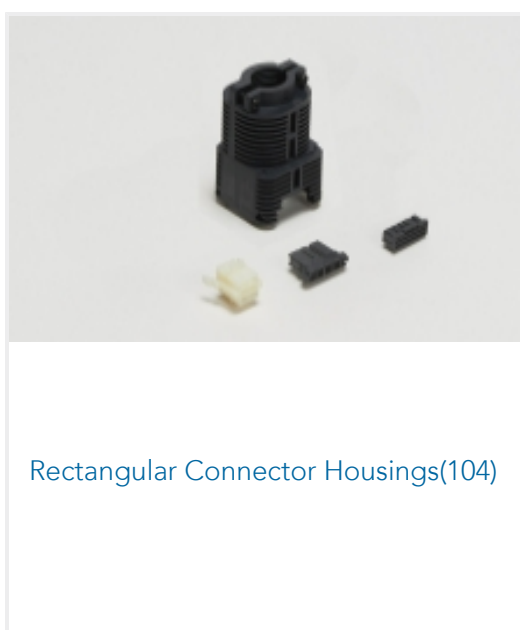
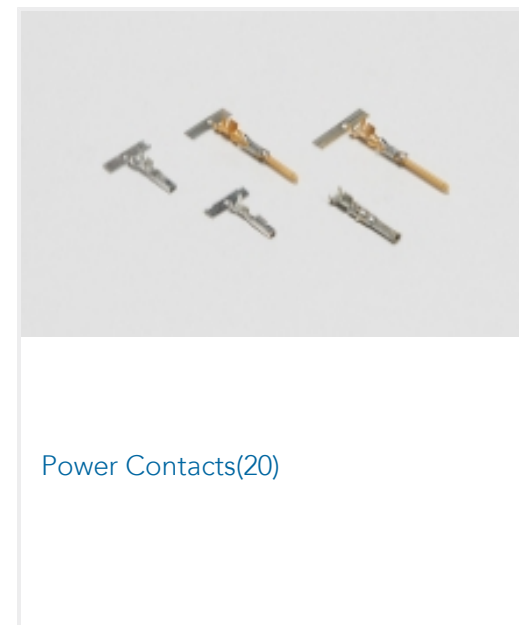
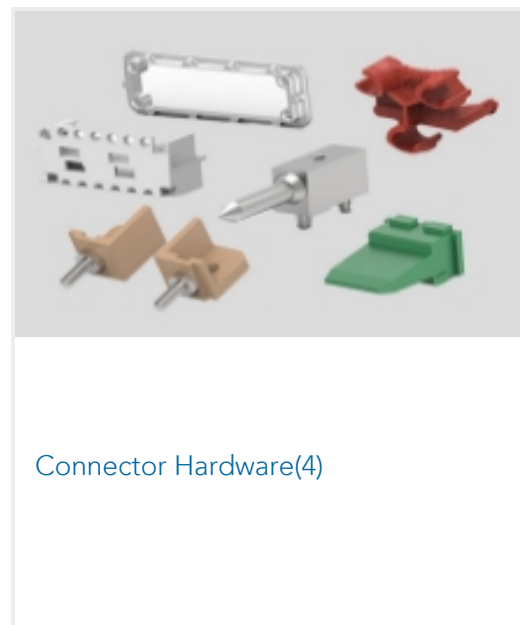
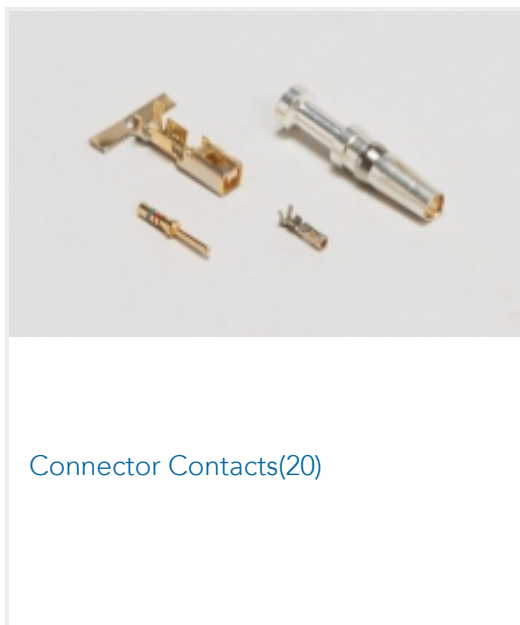
TE Part # 1445816-1  
RECPT,11-9,FLNG MT,STD KEY



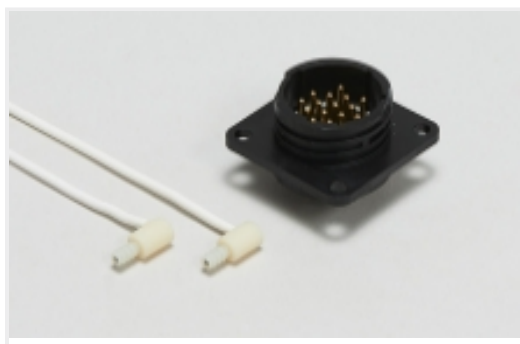
TE Part # 1445522-3  
REC,8-2,FRE HNG,LG INS,STD KEY



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



Also in the Series | **Mini Circular Plastic Connectors**



Circular Power Connectors(40)

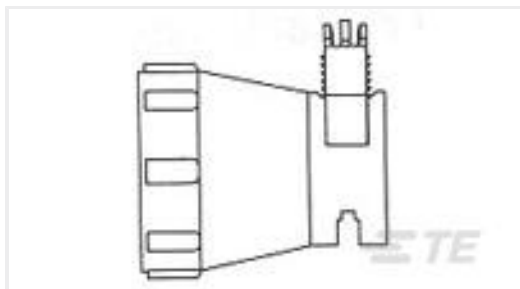


Connector Contacts(20)

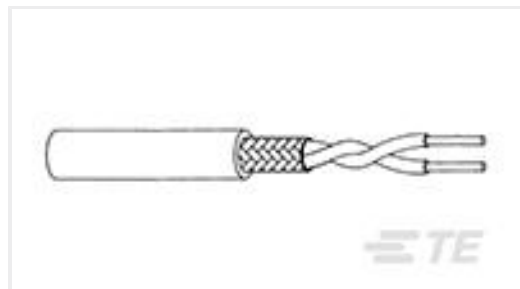


Power Contacts(20)

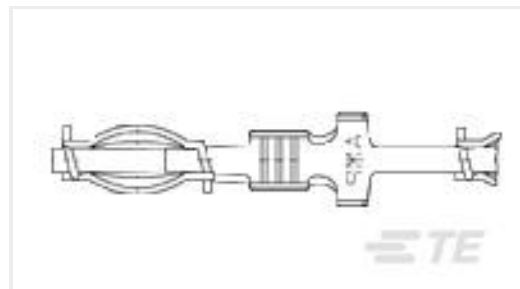
## Customers Also Bought



TE Part #1445856-1  
STR RELIEF ASY, STRAIGHT SZ 11



TE Part #759025-000  
7824E0422-9X



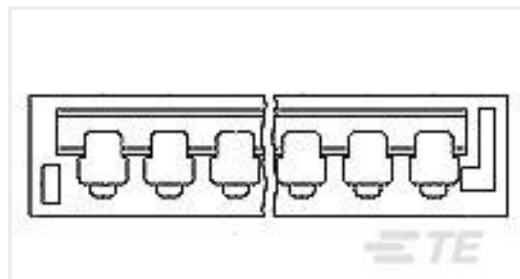
TE Part #170063-2  
CLUSTER PIN REC



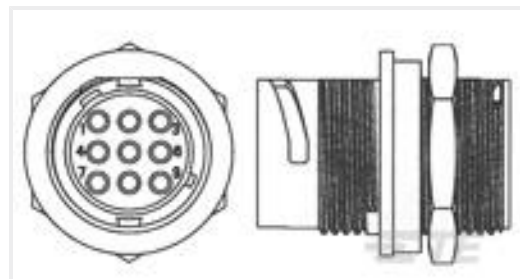
TE Part #2333102-1  
2POS, NANOMQS, REC HSG ASSY,  
COD A



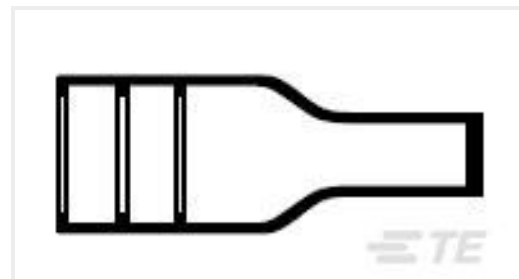
TE Part #640251-6  
06P SL156 HSG W/O LCK RAMP



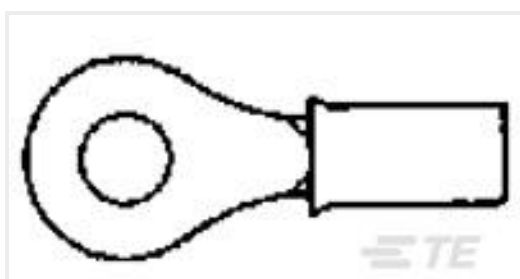
TE Part #640136-2  
02P EDGE CONN HSG, BIF-LEAF



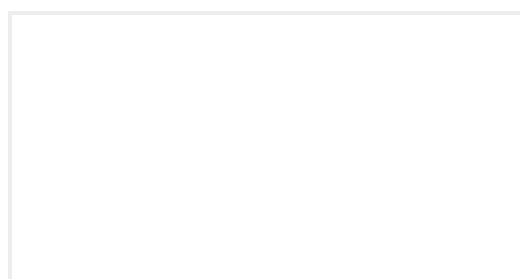
TE Part #1445816-3  
RECPT, 11-9, FLNG MT, STD KEY



TE Part #189631-000  
202D142-3/86-0



TE Part #32861  
TERMINAL, DG R 26-22 6



TE Part #852013-000  
222A121-15-CS-2067-0

## Documents

### Product Drawings

[MINI UMNL SOK 26-22AWG AU LP](#)

English

### CAD Files

[3D PDF](#)

English

### Customer View Model

[ENG\\_CVM\\_1-770986-0\\_H.2d\\_dxf.zip](#)



English

Customer View Model

[ENG\\_CVM\\_1-770986-0\\_H.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_1-770986-0\\_H.3d\\_stp.zip](#)

English

**3D PDF**

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_1-770986-0\\_D.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_1-770986-0\\_D.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_1-770986-0\\_D.3d\\_stp.zip](#)

English

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### Datasheets & Catalog Pages

[AMP Circular Connectors for Commercial Signal & Power Applications Continued](#)

English

[SOFT\\_SHELL\\_PIN\\_AND\\_SOCKET\\_CONNECTORS\\_CATALOG](#)

English

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### Product Specifications

[Application Specification](#)

English

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### Instruction Sheets

[Instruction Sheet \(U.S.\)](#)

English

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Click below to explore more details on WIN SOURCE:

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[TE Connectivity Information](#)

### Optimize Your Supply Chain with WIN SOURCE Solutions

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- ✓ Obsolete Management
- ✓ Cost Control Management
- ✓ Shortage Management
- ✓ Alternative Solution
- ✓ Excess Inventory Management