

770581-1 ✓ ACTIVE

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

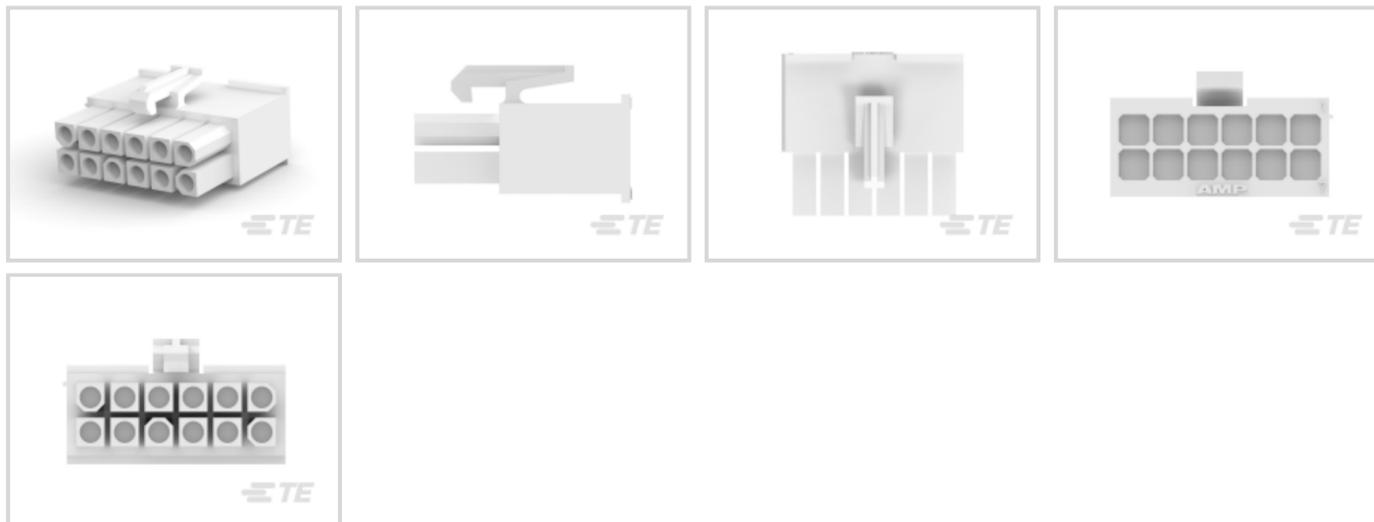
TE Internal #: 770581-1

Rectangular Power Connectors, Housing, Plug, Wire-to-Wire, 12  
Position, 4.14 mm [.162 in] Centerline, Wire & Cable, Mini-Universal  
MATE-N-LOK

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Connectors > Power Connectors > Rectangular Power > Rectangular Power Connectors



Rectangular Power Connector Type: **Housing**

Connector & Housing Type: **Plug**

Connector System: **Wire-to-Wire**

Number of Positions: **12**

Centerline (Pitch): **4.14 mm [.162 in]**

## Features

### Product Type Features

Rectangular Power Connector Type	Housing
Connector & Housing Type	Plug
Connector System	Wire-to-Wire
Sealable	No
Connector & Contact Terminates To	Wire & Cable

### Configuration Features

Number of Positions	12
Number of Rows	2

### Electrical Characteristics

Operating Voltage	600 VDC
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### Contact Features

Multiple Contact Types	Without
Contact Retention Within Housing	Without
Contact Type	Socket



### Termination Features

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

Panel Mount Feature	Without
Connector Mounting Type	Cable Mount (Free-Hanging)

### Housing Features

Centerline (Pitch)	4.14 mm [.162 in]
Housing Color	White
Housing Material	Nylon

### Dimensions

Row-to-Row Spacing	4.14 mm [.162 in]
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### Usage Conditions

Operating Temperature Range	-20 – 105 °C [-4 – 221 °F]
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### Operation/Application

Assembly Integration Feature	Without
Circuit Application	Power & Signal

### Industry Standards

CSA Rating	Certified
UL Flammability Rating	UL 94V-0
Glow Wire Rating	Standard Part - Not Glow Wire
UL Rating	Recognized
Agency/Standard Number	E28476
CSA File Number	LR7189
VDE Tested	No
Agency/Standard	CSA, UL

### Packaging Features

Packaging Method	Package
Packaging Quantity	1

### Other

For Use With	Mini-Universal MATE-N-LOK Cap Housing
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## 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: 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

 <p>TE Part # 1-794066-1 12P MINI UMNL HDR W/DH AU LF</p>	 <p>TE Part # 1-770985-0 MINI UMNL PIN 26-22AWG AU LP</p>	 <p>TE Part # 1-770972-1 12P MINI UMNL R/A HDR ASSY LF</p>	 <p>TE Part # 1-770987-0 MINI UMNL PIN 22-18 AWG AU LP</p>
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TE Part # 770988-3  
MINI UMNL SOK 22-18AWG AU LP

TE Part # 1-770988-0  
MINI UMNL SOK 22-18AWG AU

TE Part # 1-770972-0  
12P MINI UMNL R/A HDR ASSY LF

TE Part # 1-794059-0  
MINI UMNL PIN L/P LF

TE Part # 770988-1  
MINI UMNL SOK 22-18AWG SN LP

TE Part # 770986-1  
MINI UMNL SOK 26-22AWG SN LP

TE Part # 1-794066-0  
12P MINI UMNL HDR W/DH SN LF

TE Part # 170365-3  
MINI UNIVERSAL M-N-L SOCKET LP

TE Part # 170364-3  
MINI UNIVERSAL M-N-L PIN LP

TE Part # 770985-1  
MINI UMNL PIN 26-22AWG SN LP

TE Part # 770621-1  
12P MINI UMNL DBL ROW HDR ASSY

TE Part # 1-770621-0  
12P MINI UMNL DBL ROW HDR ASSY

TE Part # 1-794407-1  
MINI UMNL SOK 20-16 AWG AU LF

TE Part # 170363-3  
MINI UNIVERSAL M-N-L PIN LP

TE Part # 171638-1  
MINI U-M-N-L PIN CONT. L.P

TE Part # 171639-1  
MINI U-M-N-L SOCKET L.P

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 &amp; Clamps(2)



Rectangular Boots &amp; Strain Relief(2)



Rectangular Connector Keying Plugs(2)



Rectangular Connector Locking(2)



Rectangular Connector Seals(20)



Rectangular Power Connectors(283)

## Documents

### Product Drawings

#### 12P MINI UMNL PLUG HSG

English

### CAD Files

#### 3D PDF

3D

#### Customer View Model

[ENG\\_CVM\\_CVM\\_770581-1\\_P.2d\\_dxf.zip](#)

English

#### Customer View Model

[ENG\\_CVM\\_CVM\\_770581-1\\_P.3d\\_igs.zip](#)

English

#### Customer View Model

[ENG\\_CVM\\_CVM\\_770581-1\\_P.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

#### Application Specification

English



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### Product Environmental Compliance

[MD\\_770581-1\\_06082018129\\_dmtec](#)

English

[MD\\_770581-1\\_06082018129\\_dmtec](#)

English

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### Instruction Sheets

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

English

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

English

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### Agency Approvals

[Agency Approval Document](#)

English