

172170-1 ✓ ACTIVE

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

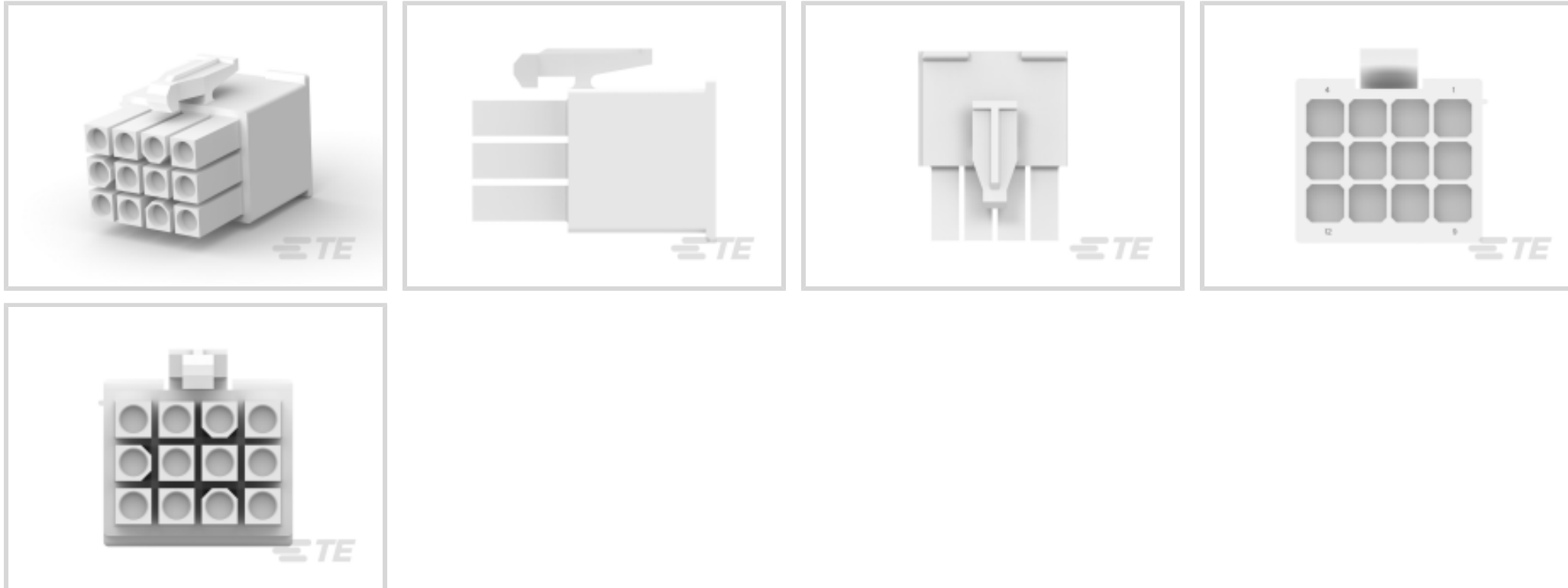
TE Internal #: 172170-1

Rectangular Power Connectors, Housing, Plug, Wire-to-Wire, 12 Position, 4.2 mm [.165 in] Centerline, Wire & Cable, UL 94V-0, Mini-Universal MATE-N-LOK

[View on TE.com >](#)



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): **4.2 mm [.165 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	3

### Electrical Characteristics

Operating Voltage	600 VDC
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### Contact Features

Multiple Contact Types	Without
Contact Layout	Matrix
Contact Retention Within Housing	Without



Contact Type	Socket
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### Termination Features

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

Panel Mount Feature	Without
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Connector Mounting Type	Panel Mount
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### Housing Features

Centerline (Pitch)	4.2 mm [.165 in]
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Housing Color	Natural
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Housing Material	Nylon 66
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### Dimensions

Row-to-Row Spacing	4.2 mm [.165 in]
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### Usage Conditions

Operating Temperature Range	-20 – 105 °C [-4 – 221 °F]
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Insertion Force	8.2 kg
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### Operation/Application

Assembly Integration Feature	Without
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Circuit Application	Power & Signal
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### Industry Standards

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

Packaging Method	Bag
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Packaging Quantity	500
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### Other



For Use With	Mini-Universal MATE-N-LOK Cap Housing /PC Board Pin Headers
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### Product Compliance

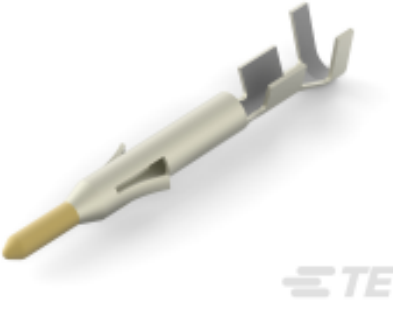
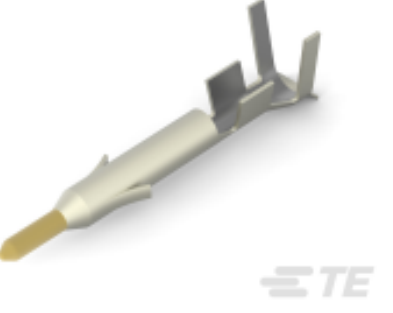
[For compliance documentation, visit the product page on TE.com>](#)

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 # 1-770985-0 MINI UMNL PIN 26-22AWG AU LP</p>	 <p>TE Part # 770186-1 12P MINI-UMNL ASSY V0 SNNI*</p>	 <p>TE Part # 1-770987-0 MINI UMNL PIN 22-18 AWG AU LP</p>	 <p>TE Part # 770988-3 MINI UMNL SOK 22-18AWG AU LP</p>
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TE Part # 1-770988-0  
MINI UMNL SOK 22-18AWG AU



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 # 1-770186-1  
12P MINI UMNL ASSY VO SNAU 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 # 1-794407-1  
MINI UMNL SOK 20-16 AWG AU LF



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



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



TE Part # 1-794040-1  
12P MINI UMNL HDR ASSY AUBR LF



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




TE Part # 770903-3  
MINI UMNL PIN 22-18 AWG AU




TE Part # 170364-1  
MINI UNIVERSAL M-N-L PIN LP

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




Connector Contacts(11)



Insertion & Extraction Tools(1)



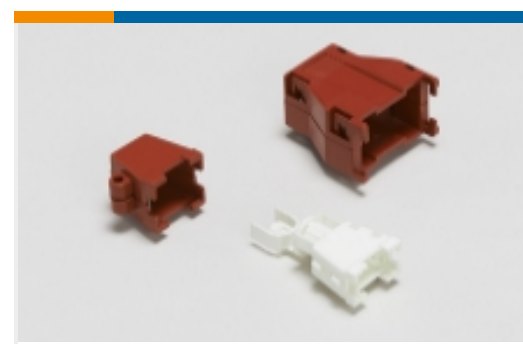
PCB Headers & Receptacles(1)



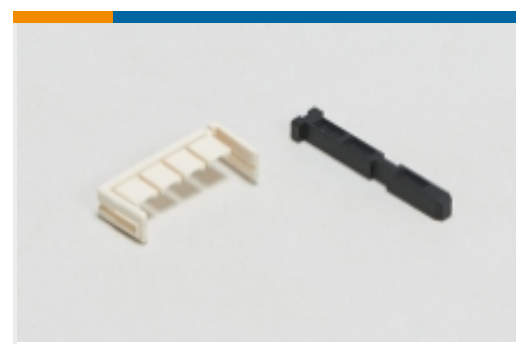
Power Contacts(85)



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

#### 12 CIR UNIV M-N-L PLUG

English

### CAD Files

#### 3D PDF

3D

#### Customer View Model

[ENG\\_CVM\\_CVM\\_172170-1\\_J.2d\\_dxf.zip](#)

English

#### Customer View Model

[ENG\\_CVM\\_CVM\\_172170-1\\_J.3d\\_igs.zip](#)

English

#### Customer View Model

[ENG\\_CVM\\_CVM\\_172170-1\\_J.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\\_172170-1\\_0606201878\\_dmtec](#)

English

[MD\\_172170-1\\_0606201878\\_dmtec](#)

English

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**Instruction Sheets**

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

English

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**Agency Approvals**

[Agency Approval Document](#)

English

[Agency Approval Document](#)

English