

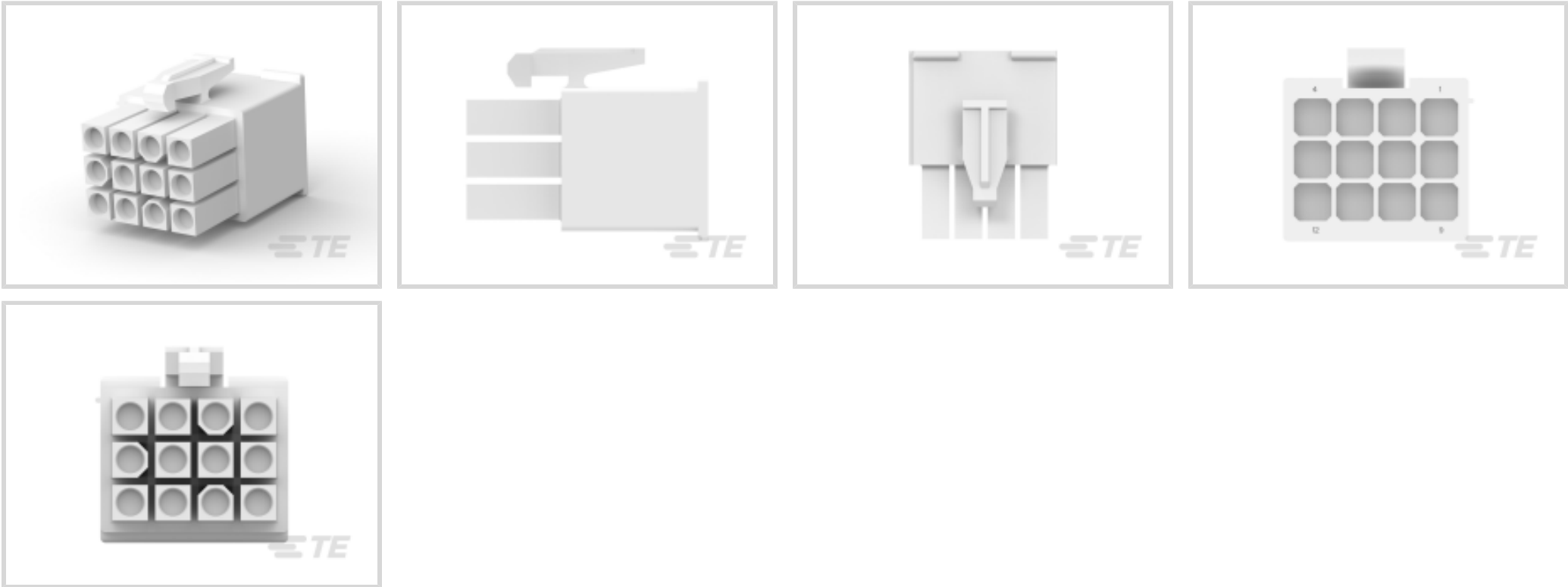


MATE-N-LOK | Mini-Universal MATE-N-LOK

TE Internal #: 172170-1
Rectangular Power Connectors, Housing, Plug, Wire-to-Wire, 12 Position, .165 in [4.2 mm] 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
Termination Features	
Termination Method to Wire & Cable	Crimp
Mechanical Attachment	
Panel Mount Feature	Without
Connector Mounting Type	Panel Mount
Housing Features	
Centerline (Pitch)	4.2 mm[.165 in]
Housing Color	Natural
Housing Material	Nylon 66
Dimensions	
Row-to-Row Spacing	4.2 mm[.165 in]
Usage Conditions	
Operating Temperature Range	-20 – 105 °C[-4 – 221 °F]
Insertion Force	8.2 kg
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	Bag
Packaging Quantity	500
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

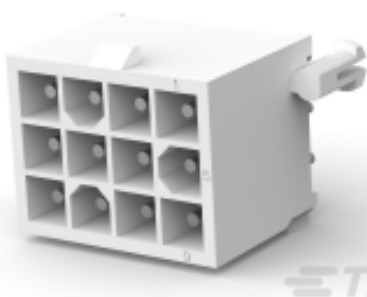
Product Compliance Disclaimer

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>

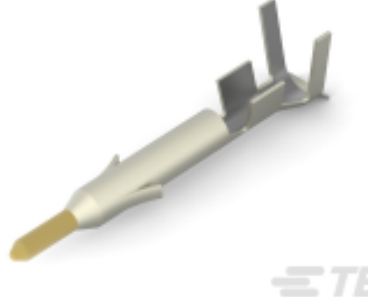
Compatible Parts



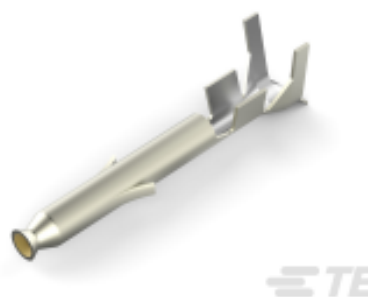
TE Part # 1-770985-0
MINI UMNL PIN 26-22AWG AU LP



TE Part # 770186-1
12P MINI-UMNL ASSY V0 SNNI*



TE Part # 1-770987-0
MINI UMNL PIN 22-18 AWG AU LP

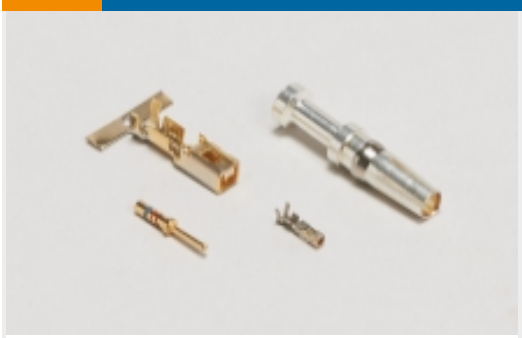
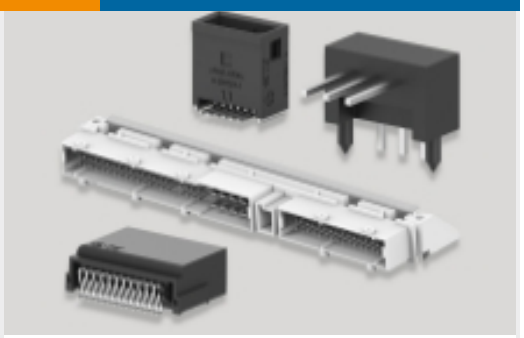


TE Part # 770988-3
MINI UMNL SOK 22-18AWG AU LP



 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 # 1-770186-0 12P MINI-UMNL ASSY VO SNNI*	 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 # 171639-1 MINI U-M-N-L SOCKET LP	 TE Part # 770903-3 MINI UMNL PIN 22-18 AWG AU	 TE Part # 170364-1 MINI UNIVERSAL M-N-L PIN LP	 TE Part # 1-770902-1 MINI UMNL SOK 26-22 AWG AU LF

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

 Connector Contacts(11)	 Insertion & Extraction Tools(1)	 PCB Headers & Receptacles(1)	 Power Contacts(85)
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Rectangular Backshells & Clamps(2)



Rectangular Boots & Strain Relief(2)



Rectangular Connector Keying Plugs(2)



Rectangular Connector Locking(2)



Rectangular Connector Seals(20)



Rectangular Power Connectors(283)

Customers Also Bought



TE Part #172163-1
15 CIR UNIV M-N-L CAP



TE Part #172158-1
3 CIR UNIV M-N-L CAP



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



TE Part #172161-1
9 CIR UNIV M-N-L CAP



TE Part #172159-1
4 CIR UNIV M-N-L CAP



TE Part #172167-1
4 CIR UNIV M-N-L PLUG



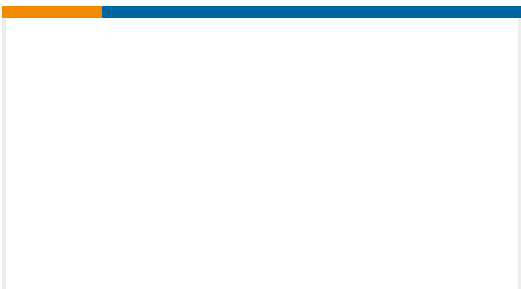
TE Part #172166-1
3 CIR UNIV M-N-L PLUG



TE Part #172168-1
6 CIR UNIV M-N-L PLUG



TE Part #172160-1
6 CIR UNIV M-N-L CAP



TE Part #YDBC54H-2255PNV001
HERM RECP

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

Product Environmental Compliance

MD_172170-1_0606201878_dmtec

English

MD_172170-1_0606201878_dmtec

English

Instruction Sheets

Instruction Sheet (U.S.)

English

Agency Approvals

Agency Approval Document

English

Agency Approval Document

English