770621-1 ✔ ACTIVE

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

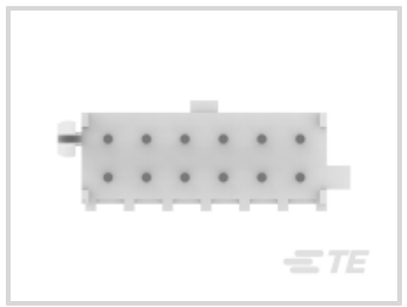
TE Internal #: 770621-1

Mini-Universal MATE-N-LOK, Rectangular Power Connectors, Header, Receptacle, Wire-to-Board, 12 Position, 4.14mm [.162in] Centerline

View on TE.com >

Connectors > Power Connectors > Rectangular Power > Rectangular Power Connectors




Rectangular Power Connector Type: **Header**

Connector & Housing Type: **Receptacle**

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

Number of Positions: **12**

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

Features

Product Type Features

Rectangular Power Connector Type	Header
Connector & Housing Type	Receptacle
Connector System	Wire-to-Board
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

Number of Positions	12
PCB Mount Orientation	Vertical
Number of Power Positions	12
Number of Signal Positions	0
Number of Rows	2

Electrical Characteristics

Operating Voltage	600 VDC

Contact Features

Contact Termination Area Plating Finish	Matte
Multiple Contact Types	Without
Contact Current Rating (Max)	9.5 A
Contact Retention Within Housing	Without
Contact Type	Pin
PCB Contact Termination Area Plating Material	Tin-Lead
Contact Mating Area Plating Material	Tin-Lead
Contact Mating Area Plating Material Thickness	3.81 – 6.35 µm[150 – 250 µin]

Termination Features

Termination Post & Tail Length	5.47 mm[.215 in]
Termination Method to Printed Circuit Board	Through Hole - Solder

Mechanical Attachment

Strain Relief	Without
Mating Alignment Type	Chamfered Edges
Mating Alignment	With
PCB Mount Alignment	Without
Panel Mount Feature	Without
PCB Mount Retention	With
PCB Mount Retention Type	Boardlock
Connector Mounting Type	Board Mount
Mating Retention	With
Mating Retention Type	Locking Tab

Housing Features

Centerline (Pitch)	4.14 mm[.162 in]
Housing Color	White
Housing Material	Nylon, Nylon 66/6
Boardlock Material	Nylon

Dimensions

Insulation Diameter (Max)	3.2 mm
Wire Size	100.5 – 2583 CMA
Row-to-Row Spacing	4.14 mm[.163 in]
Width	9.83 mm

Height	13.49 mm
Length	26.39 mm

Usage Conditions

Operating Temperature Range	-55 – 105 °C[-67 – 221 °F]

Operation/Application

Assembly Integration Feature	Without
Circuit Application	Power

Industry Standards

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

Packaging Features

Packaging Method	Bag
Packaging Quantity	200

Other

For Use With	Plug Housing

Product Compliance

For compliance documentation, visit the product page on TE.com>

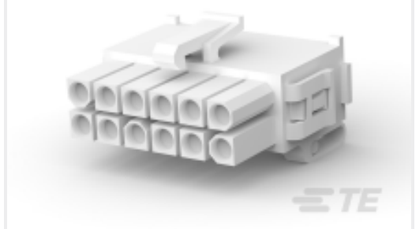
EU RoHS Directive 2011/65/EU	Not Compliant
EU ELV Directive 2000/53/EC	Not Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JAN 2021 (211) Candidate List Declared Against: JAN 2021 (211) SVHC > Threshold: Pb (13% in Component Part) **Article Safe Usage Statements:** Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Recycle if possible and dispose of the article by following all applicable governmental regulations relevant to your geographic location.

Halogen Content	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
Solder Process Capability	Not lead free process capable

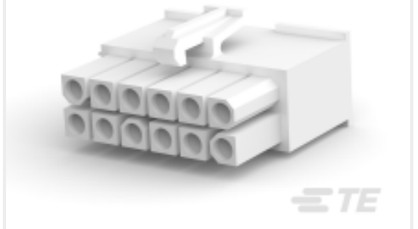
Product Compliance Disclaimer

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 # 794198-1
12P MINI UMNL2 PLUG HSG DBLROW



TE Part # 770581-1
12P MINI UMNL PLUG HSG

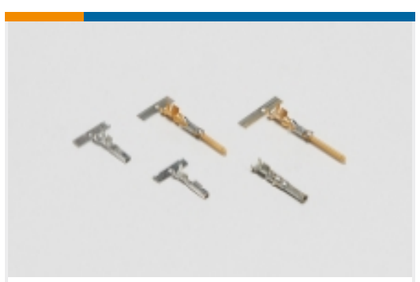
Also in the Series | Mini-Universal MATE-N-LOK



Connector Contacts(11)



Insertion & Extraction Tools(1)



Power Contacts(85)



Rectangular Backshells & Clamps(2)



Rectangular Boots & Strain Relief(2)



Rectangular Connector Keying Plugs(2)



Rectangular Connector Locking(1)



Rectangular Connector Seals(18)



Rectangular Power Connectors(285)



Wire-to-Board Headers & Receptacles (1)

Customers Also Bought



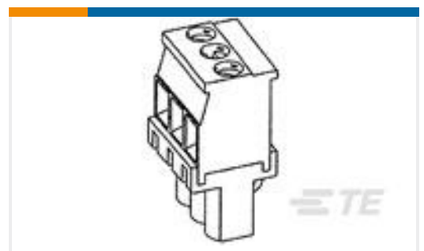
TE Part #1-640457-6
Polyester Right Angle PCB Header: 2.54mm, Unshrouded, MTA 100



TE Part #1473150-4
DDR2 SO DIMM Sockets



TE Part #146871-1
B/A REELED DRST HDR ASSY 30 AU



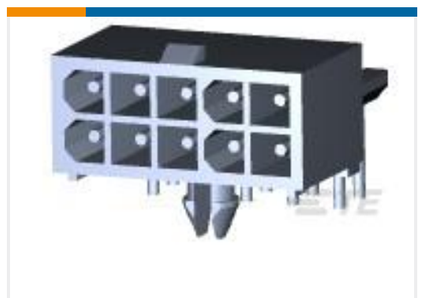
TE Part #1546105-5
5 POS 5.08MM LH PLUG BLCK



TE Part #1-776180-2
AMPSEAL HEADERS



TE Part #1-770743-0
10P MINI UMNL HDR ASSY D/R VRT



TE Part #1-770971-0
10P MINI UMNL R/A HDR ASSY SN



TE Part #1-770966-1
02P MINI UMNL R/A HDR ASSY AU



TE Part #NB19334001
RNF-100-1/8-WH-SP



TE Part #1-6609122-2
CORCOM L SERIES MULTI-FUNCTION INLET FIL

Documents

Product Drawings

12P MINI UMNL DBL ROW HDR ASSY

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_770621-1_M.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_770621-1_M.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_770621-1_M.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

Product Specifications

Application Specification

English

Product Environmental Compliance

MD_770621-1_092520181213_dmtec

English

MD_770621-1_092520181213_dmtec

English

Instruction Sheets

Instruction Sheet (U.S.)

English

Instruction Sheet (U.S.)

English

Agency Approvals

Agency Approval Document

English

Agency Approval Document

English