

1-770974-0 ✓ ACTIVE

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

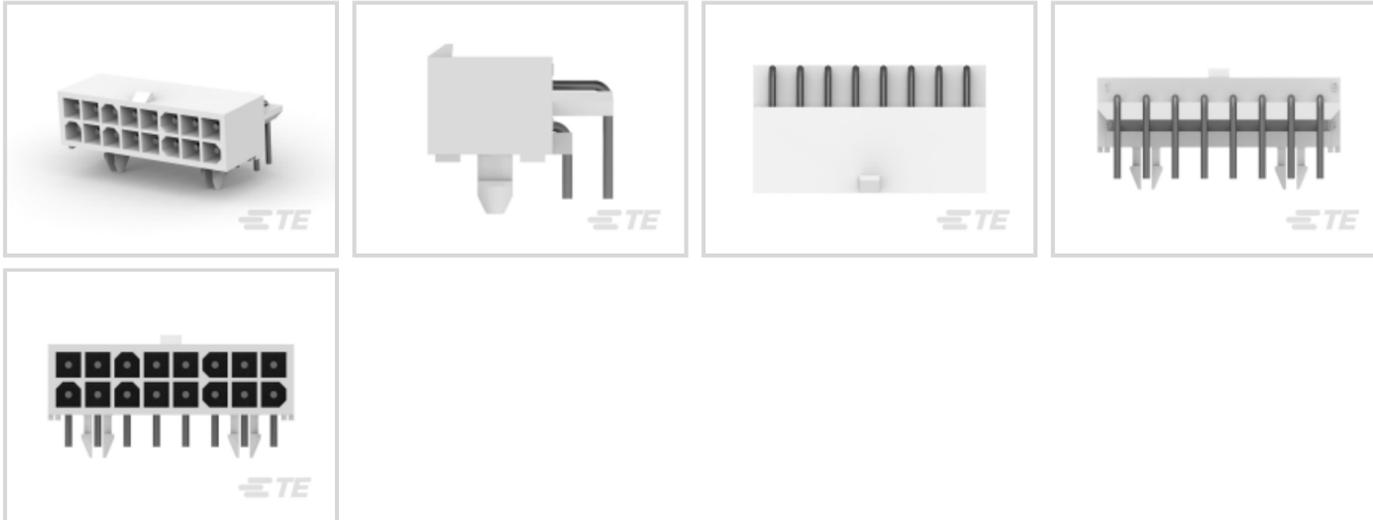
TE Internal #: 1-770974-0

PCB Mount Header, Right Angle, Wire-to-Board, 16 Position, 4.14 mm [.162 in] Centerline, Fully Shrouded, Tin (Sn), Mini-Universal MATE-N-LOK

[View on TE.com >](#)



Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Header**

PCB Mount Orientation: **Right Angle**

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

Number of Positions: **16**

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

Features

Product Type Features

Mixed & Hybrid Header	No
Connector Shape	Rectangular
PCB Connector Type	PCB Mount Header
Connector System	Wire-to-Board
Header Type	Fully Shrouded
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board
Connector Product Type	Connector Assembly

Configuration Features

Number of Columns	8
Number of Loaded Positions	16
Connector Contact Load Condition	Fully Loaded
PCB Mount Orientation	Right Angle
Number of Positions	16



Number of Rows	2
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Number of Power Positions	16
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Electrical Characteristics

Operating Voltage	600 VDC
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Body Features

Primary Product Color	White
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Contact Features

Contact Underplating Material	Nickel
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Mating Pin Diameter	1 mm [.039 in]
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Contact Underplating Material Thickness	1.27 μ m [50 μ in]
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PCB Contact Termination Area Plating Material Finish	Matte
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Contact Size	1mm
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PCB Contact Termination Area Plating Material Thickness	3.81 – 8.89 μ m [150 – 350 μ in]
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Contact Shape & Form	Round
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Contact Layout	Matrix
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Contact Base Material	Brass
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Contact Mating Area Plating Material	Tin (Sn)
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Contact Mating Area Plating Material Finish	Matte
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Contact Mating Area Plating Material Thickness	3.81 – 8.89 μ m [150 – 350 μ in]
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Contact Type	Pin
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Contact Current Rating (Max)	9.5 A
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PCB Contact Termination Area Plating Material	Tin
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Termination Features

Termination Post & Tail Diameter	1 mm [.039 in]
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Termination Post & Tail Length	3.69 mm [.145 in]
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Termination Method to PCB	Through Hole - Solder
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Mechanical Attachment

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

Housing Features

Mating Entry Location	Side
Centerline (Pitch)	4.14 mm [.162 in]
Housing Material	Nylon

Dimensions

Row-to-Row Spacing	4.14 mm [.162 in]
Connector Width	12.7 mm [.5 in]
PCB Thickness (Recommended)	1.57 mm [.062 in]
Connector Height	11.86 mm [.467 in]
Connector Length	34.7 mm [1.366 in]

Usage Conditions

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

Operation/Application

Circuit Application	Power
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Industry Standards

Compatible With Agency/Standards Products	CSA, UL
UL Rating	Recognized
Compatible With Approved Standards Products	UL E28476
Glow Wire Rating	Standard Part - Not Glow Wire
UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Quantity	200
Packaging Method	Bag

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

China RoHS 2 Directive MIIT Order No 32, 2016

有害物质含量符合标准要求 No Restricted Substance(s) Above Threshold

EU REACH Regulation (EC) No. 1907/2006

Current ECHA Candidate List: JUNE 2025 (250)
Candidate List Declared Against: JUNE 2025 (250)
Does not contain REACH SVHC

Halogen Content

Low Halogen - Br, Cl, F < 900 ppm per homogenous material. Also BFR/CFR/PVC Free

Solder Process Capability

Wave solder capable to 265°C

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>

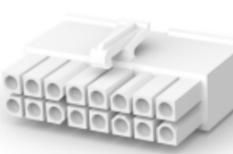
Compatible Parts



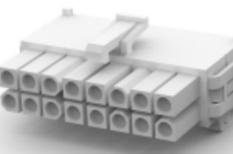
TE Part # 1-1586362-6
16P MINI UMNL SEAL, DIE CUT



TE Part # 794207-1
16P MINI UMNL2 CAP HSG UL94V0



TE Part # 770583-1
16P MINI UMNL PLUG HSG



TE Part # 794206-1
16P MINI UMNL2 PLUG HSG UL94V0

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



Connector Caps & Covers(2)



Connector Contacts(89)



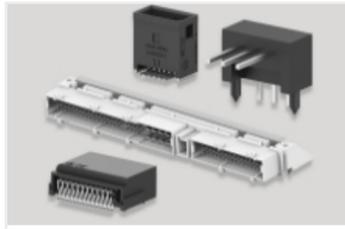
Connector Seals & Cavity Plugs(17)



Connector Strain Relief(2)



Insertion & Extraction Tools(1)



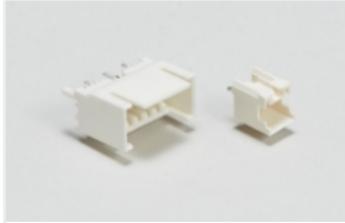
PCB Headers & Receptacles(93)



Power Contacts(89)



Rectangular Power Connectors(196)



Wire-to-Board Headers & Receptacles (93)

Customers Also Bought



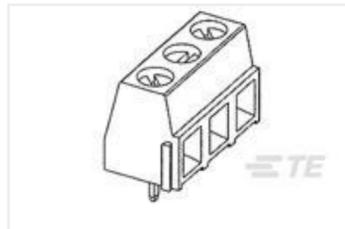
TE Part #816484-SF
RN102-0.3-02-12M



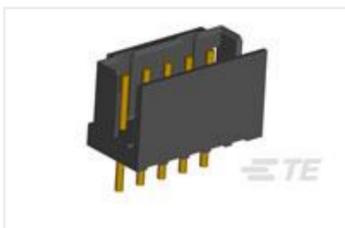
TE Part #800352-SF
FN286-2-06



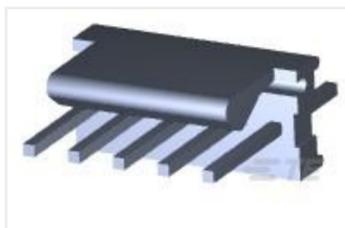
TE Part #1-171825-2
POST HDR ASSY VERT AMP EI CONN



TE Part #282837-4
TERMI-BLOK PCB MOUNT 4P



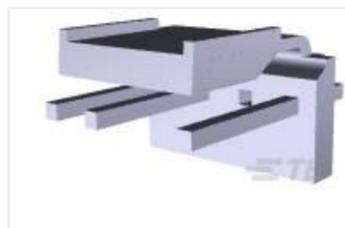
TE Part #292133-2
CT P/HDR ASSY BOX V 2P W/O KIN



TE Part #3-641215-5
05P MTA100 HDR ASSY FL 30AU LF



TE Part #643030-4
05P UMNL STR/REL



TE Part #3-644661-4
04P MTA156 HDR ASSY POL W/O#2



TE Part #1-770873-0
03P MINI UMNL HDR ASSY SN



TE Part #1-881545-2
AMP SHUNT ASS'Y

Documents



Product Drawings

16P MINI UMNL R/A HDR ASSY SN

English

CAD Files

3D PDF

3D

Customer View Model

[ENG_CVM_CVM_1-770974-0_E.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1-770974-0_E.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1-770974-0_E.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

[mini-universal-mate-n-lok-connectors](#)

English

Product Specifications

Application Specification

English

Instruction Sheets

Instruction Sheet (U.S.)

English

Agency Approvals

UL Report

English

UL Report

English