



Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Assembly Type: **PCB Mount Header**

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

Number of Positions: **12**

Number of Rows: **3**

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

Features

Product Type Features

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

Configuration Features

Number of Power Positions	12
Number of Columns	4
Number of Loaded Positions	12
Connector Contact Load Condition	Fully Loaded
Number of Positions	12
Number of Rows	3
PCB Mount Orientation	Vertical



Electrical Characteristics

Operating Voltage	600 VAC
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Body Features

PCB Retention Feature Material	Nylon
Primary Product Color	White

Contact Features

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

Termination Features

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

Mechanical Attachment

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



Mating Alignment	With
PCB Mount Alignment	Without
PCB Mount Retention	With

Housing Features

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

Dimensions

Connector Length	23.27 mm[.916 in]
Connector Height	13.49 mm[.531 in]
Connector Width	16.03 mm[.631 in]
PCB Thickness (Recommended)	1.57 mm[.062 in]
Profile Height from PCB	14.25 mm[.56 in]
Row-to-Row Spacing	4.14 mm[.162 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

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
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 2024 (241)
Candidate List Declared Against: JUNE 2024 (241)
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	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 # 172170-1
12 CIR UNIV M-N-L PLUG

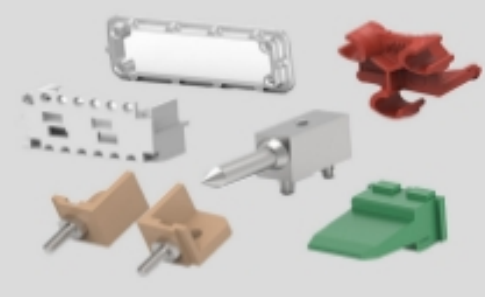
Also in the Series | Mini-Universal MATE-N-LOK



Connector Caps & Covers(2)



Connector Contacts(89)



Connector Hardware(4)



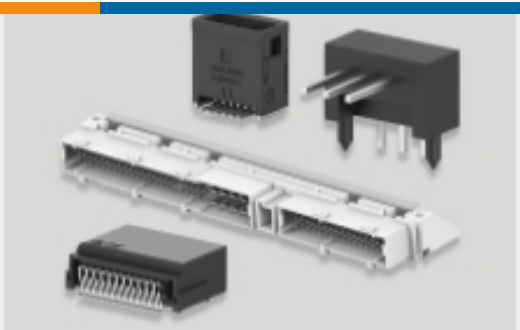
Connector Seals & Cavity Plugs(17)



Connector Strain Relief(2)



Insertion & Extraction Tools(1)

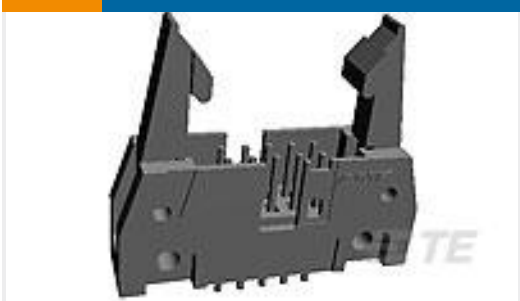


PCB Headers & Receptacles(93)



Rectangular Power Connectors(104)

Customers Also Bought



TE Part #5102321-4
A/L UNIV HDR 20P VERT LG LAT



TE Part #1-770178-0
06P MINI-UMNL ASSY VO SNNI*



TE Part #1-770166-0
02P MINI-UMNL ASSY VO SNNI*



TE Part #1-770170-0
03P MINI-UMNL ASSY VO SNNI*



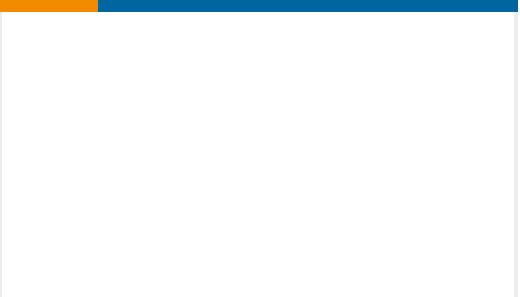
TE Part #8-1393224-2
RY531024



TE Part #3-1625890-2
2W SM M/OX 5% 22K



TE Part #3-1609965-1
KEB 3A 1S SPADE DELTA 440VAC



TE Part #2016493-1
RF CA,UMCC TO UMCC, 1.13MM CABLE,30MM

Documents

Product Drawings

12P MINI-UMNL ASSY VO SNNI*

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1-770186-0_N.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1-770186-0_N.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1-770186-0_N.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

Instruction Sheets

Instruction Sheet (U.S.)

English

Agency Approvals

UL

English