



Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Header**

PCB Mount Orientation: **Vertical**

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

Number of Positions: **12**

Number of Rows: **3**

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

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



Number of Positions	12
Number of Rows	3

Electrical Characteristics

Operating Voltage	600 VDC
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Body Features

PCB Retention Feature Material	Nylon
Primary Product Color	White

Contact Features

Contact Underplating Material	Nickel
Mating Pin Diameter	1 mm[.039 in]
Contact Underplating Material Thickness	1.27 µm[50 µin]
Contact Size	1mm
Contact Mating Area Plating Material Thickness	.76 µm[30 µin]
Contact Base Material	Brass
PCB Contact Termination Area Plating Material	Tin
PCB Contact Termination Area Plating Material Finish	Matte
PCB Contact Termination Area Plating Material Thickness	3.81 – 8.89 µm[150 – 350 µin]
Contact Shape & Form	Round
Contact Layout	Matrix
Contact Mating Area Plating Material	Gold (Au)
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

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



PCB Mount Retention	With
PCB Mount Alignment	Without
Connector Mounting Type	Board Mount
Mating Alignment	With

Housing Features

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

Dimensions

Row-to-Row Spacing	4.14 mm[.162 in]
Connector Width	16.03 mm[.631 in]
Connector Height	13.49 mm[.531 in]
Connector Length	23.27 mm[.916 in]
PCB Thickness (Recommended)	1.57 mm[.062 in]
Profile Height from PCB	14.25 mm[.56 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
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: JAN 2025 (247) Candidate List Declared Against: JAN 2025 (247) 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 # 794200-1
12P MINI UMN2 PLUG HSG MATRIX



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)



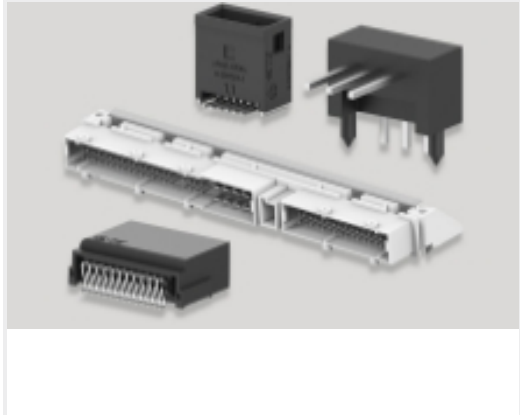
Connector Seals & Cavity Plugs(17)



Connector Strain Relief(2)



Insertion & Extraction Tools(1)



PCB Headers & Receptacles(93)



Rectangular Power Connectors(196)



Wire-to-Board Headers & Receptacles (93)

Customers Also Bought



TE Part #535032-4
096 EURO TYPE C RECEPT AP ASSY



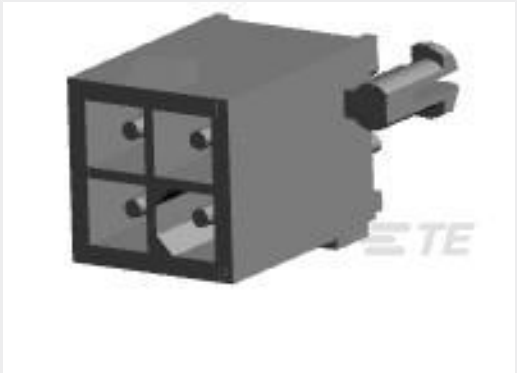
TE Part #1-1609034-2
6VSB1=F8330



TE Part #1-770170-1
03P MINI UMNL ASSY VO SNAU LF



TE Part #5650850-5
ASSY,RECPT,EUROCARD,TYPE C, LEAD-FREE,32/



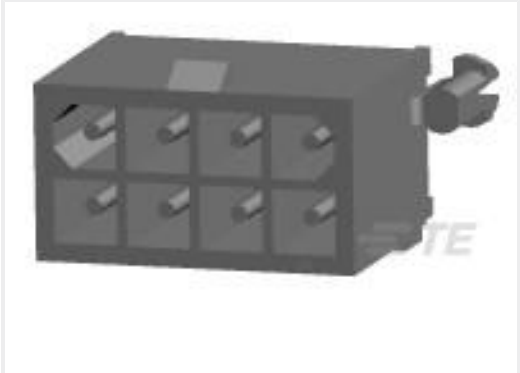
TE Part #1-770174-1
04P MINI UMNL ASSY VO SNAU LF



TE Part #1-770178-1
06P MINI UMNL ASSY VO SNAU LF



TE Part #5-66461-4
SKT,.062 DIA,.025 SQ POST,LP



TE Part #1-794065-1
08P MINI UMNL HDR W/DH AU LF



TE Part #1986484-3
Plug, 5.08mm, Gn, Ss & WE same side, 3p



TE Part #6-1474569-2
S05K3E-F1

Documents

Product Drawings

12P MINI UMNL ASSY VO SNAU LF

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1-770186-1_N.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1-770186-1_N.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1-770186-1_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