



Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Header**

PCB Mount Orientation: **Vertical**

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

Number of Positions: **3**

Number of Rows: **1**

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                | 3            |
| Number of Loaded Positions       | 3            |
| Number of Power Positions        | 3            |
| Connector Contact Load Condition | Fully Loaded |
| PCB Mount Orientation            | Vertical     |
| Number of Positions              | 3            |



|                |   |
|----------------|---|
| Number of Rows | 1 |
|----------------|---|

Electrical Characteristics

|                   |         |
|-------------------|---------|
| Operating Voltage | 600 VAC |
|-------------------|---------|

Body Features

|                       |         |
|-----------------------|---------|
| Primary Product Color | Natural |
|-----------------------|---------|

Contact Features

|                                                         |                               |
|---------------------------------------------------------|-------------------------------|
| Contact Underplating Material                           | Nickel                        |
| Contact Underplating Material Thickness                 | 1.27 – 1.79 µm[50 – 70 µin]   |
| Contact Size                                            | 2.95mm                        |
| Contact Mating Area Plating Material Thickness          | 3.81 – 5.08 µm[150 – 200 µin] |
| PCB Contact Termination Area Plating Material Thickness | 3.81 – 5.08 µm[150 – 200 µin] |
| Contact Shape & Form                                    | Round                         |
| Contact Layout                                          | Inline                        |
| Contact Base Material                                   | Phosphor Bronze               |
| PCB Contact Termination Area Plating Material           | Pre-Tin                       |
| Contact Mating Area Plating Material                    | Pre-Tin                       |
| Contact Type                                            | Socket                        |
| Contact Current Rating (Max)                            | 12 A                          |

Termination Features

|                                  |                       |
|----------------------------------|-----------------------|
| Termination Post & Tail Diameter | 1.57 mm[.062 in]      |
| Termination Post & Tail Length   | 3.56 mm[.14 in]       |
| Termination Method to PCB        | Through Hole - Solder |

Mechanical Attachment

|                          |                         |
|--------------------------|-------------------------|
| Panel Mount Feature      | Without                 |
| Mating Retention Type    | Locking Tab             |
| Mating Retention         | With                    |
| Mating Alignment Type    | Polarization            |
| PCB Mount Alignment Type | Standard Polarized Tail |
| PCB Mount Retention      | Without                 |
| PCB Mount Alignment      | With                    |
| Connector Mounting Type  | Board Mount             |
| Mating Alignment         | With                    |



Housing Features

|                       |                 |
|-----------------------|-----------------|
| Mating Entry Location | Top             |
| Housing Material      | Nylon           |
| Centerline (Pitch)    | 6.35 mm[.25 in] |

Dimensions

|                             |                  |
|-----------------------------|------------------|
| Connector Width             | 7.62 mm[.3 in]   |
| PCB Thickness (Recommended) | 1.57 mm[.062 in] |
| Connector Height            | 13.97 mm[.55 in] |
| Connector Length            | 20.32 mm[.8 in]  |
| Profile Height from PCB     | 14.73 mm[.58 in] |

Usage Conditions

|                             |                            |
|-----------------------------|----------------------------|
| Operating Temperature (Max) | 105 °C[221 °F]             |
| Operating Temperature Range | -40 – 105 °C[-40 – 221 °F] |

Operation/Application

|                     |       |
|---------------------|-------|
| Circuit Application | Power |
|---------------------|-------|

Industry Standards

|                                             |                               |
|---------------------------------------------|-------------------------------|
| Compatible With Agency/Standards Products   | CSA, UL, VDE                  |
| UL Rating                                   | Recognized                    |
| Compatible With Approved Standards Products | UL E28476                     |
| Glow Wire Rating                            | Standard Part - Not Glow Wire |
| UL Flammability Rating                      | UL 94V-2                      |

Packaging Features

|                    |     |
|--------------------|-----|
| Packaging Quantity | 100 |
| 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 CapabilityWave 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

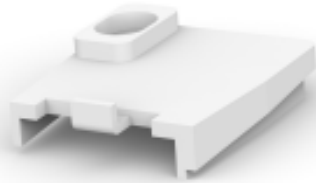
|                                                                                                                                            |                                                                                                                                                  |                                                                                                                                              |                                                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>TE Part # 1-350589-0<br/>STR/REL CLAMP NATL</p>     |  <p>TE Part # 350848-3<br/>03P UMNL PLUG TEST ASSY 94VO</p>  |  <p>TE Part # 1-480700-0<br/>03P UMNL PLUG HSG NATL</p> |  <p>TE Part # 1969800-1<br/>03P UMNL HDR ASSY, SCKT V0 GW</p> |
|  <p>TE Part # 641763-1<br/>03P UMNL STR/REL V2 NATL</p> |  <p>TE Part # 794992-1<br/>03P UMNL BLACK INTERFACE SEAL</p> |  <p>TE Part # 794271-1<br/>03P UMNL INTERFACE SEAL</p>  |  <p>TE Part # 794272-1<br/>03P UMNL WIRE SEAL</p>             |



TE Part # 1586849-1  
03P UMNL CAP HSG NATL, GW



TE Part # 794900-1  
03P UMNL HI TEMP CAP HSG



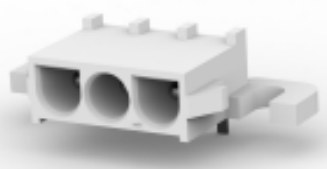
TE Part # 641945-1  
03P UMNL STR/REL



TE Part # 1-640720-0  
03P UMNL STR/REL & INSRT NATL



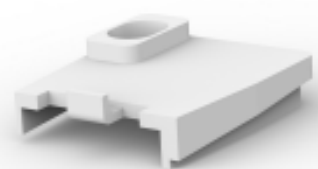
TE Part # 1586869-1  
03P UMNL HDR ASSY, GW



TE Part # 1586892-1  
03P UMNL HDR ASSY R/A, GW



TE Part # 350811-1  
STR/REL CLAMP



TE Part # 640714-1  
03P UMNL STR/REL

Also in the Series | Universal MATE-N-LOK



Circular Power Connectors(2)



Connector Caps & Covers(34)



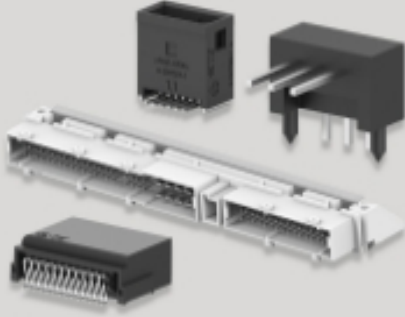
Connector Seals & Cavity Plugs(27)



Connector Strain Relief(7)



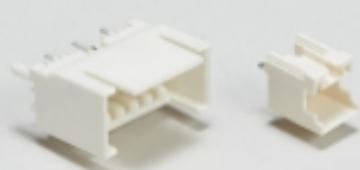
Insertion & Extraction Tools(4)



PCB Headers & Receptacles(286)



Rectangular Power Connectors(651)

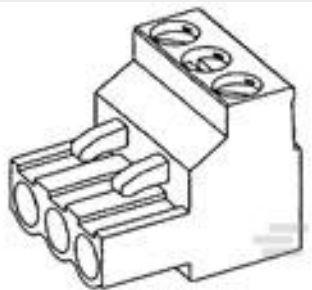


Wire-to-Board Headers & Receptacles (286)

Customers Also Bought



TE Part #641737-1  
04P CMNL HDR ASSY R/A PC NATL



TE Part #796634-3  
3 POS 5.08MM R/A PLUG,TRM BLK



TE Part #1-1721150-5  
ORWH-SH-124D1F,000



TE Part #1-770966-0  
02P MINI UMNL R/A HDR ASSY SN



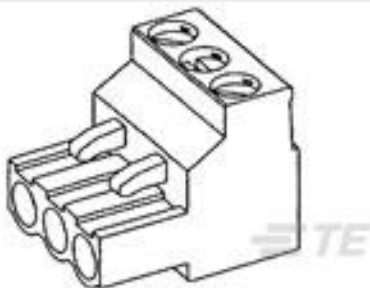




TE Part #CAT-104MTA-PRSMH  
PCB Header, Right Angle, Polyester, 2.54 mm



TE Part #42236-1  
110 FASTON REC 22-20 AWG TPBR



TE Part #796634-4  
4 POS 5.08MM R/A PLUG,TRM BLK



TE Part #1614354-9  
RN 0603 4K99 0.1% 10PPM CUT LE



TE Part #640452-9  
09P MTA100 HDR ASSY SQ STR

Documents

Product Drawings

03P UMNL HDR ASSY SCKT POL

English

CAD Files

Customer View Model

ENG\_CVM\_643413-1\_H.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_643413-1\_H.3d\_stp.zip

English

Customer View Model

ENG\_CVM\_643413-1\_H.2d\_dxf.zip

English

3D PDF

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Datasheets & Catalog Pages

SOFT\_SHELL\_PIN\_SOCKET\_CONNECTORS\_STANDARD\_DENSITY

English

Product Specifications

Application Specification

English

Instruction Sheets

Instruction Sheet (U.S.)



English

Agency Approvals

UL

English