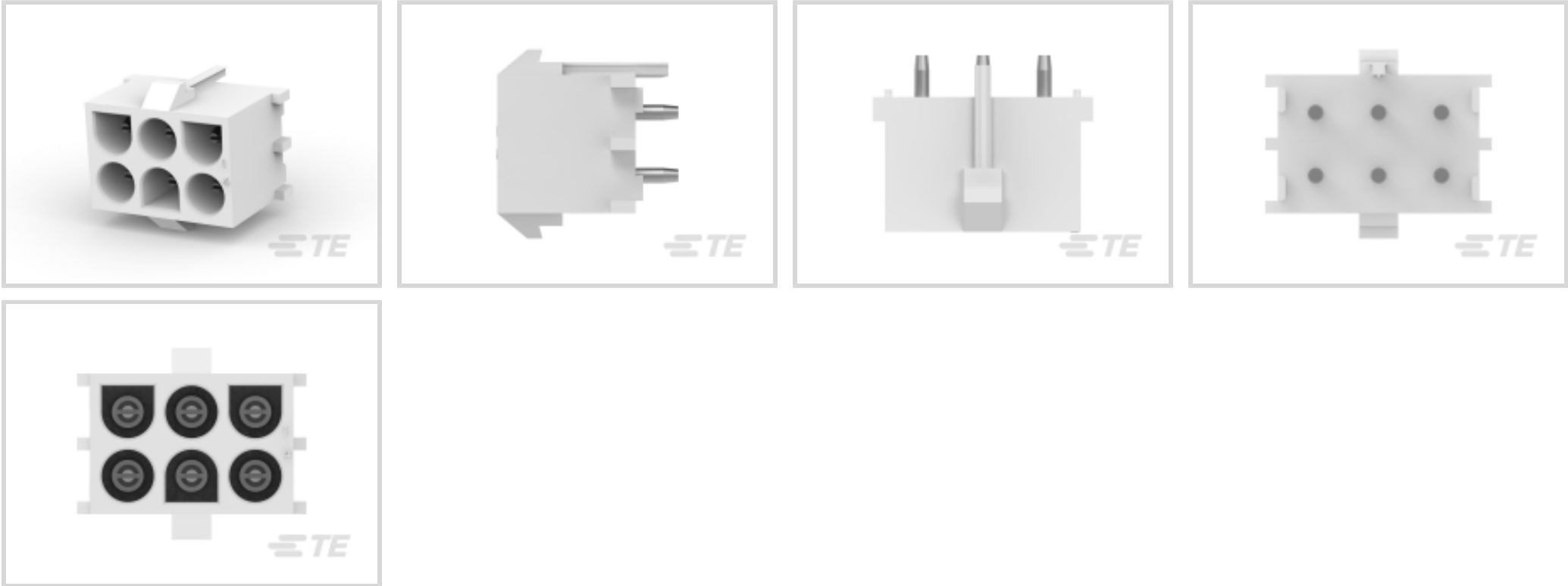




Connectors > PCB Connectors > PCB Headers & Receptacles



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

PCB Mount Orientation: **Vertical**

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

Number of Positions: **6**

Number of Rows: **2**

Features

Electrical Characteristics

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

Dimensions

|                             |                  |
|-----------------------------|------------------|
| Row-to-Row Spacing          | 6.35 mm[.25 in]  |
| Connector Width             | 13.97 mm[.55 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] |

Packaging Features

|                    |     |
|--------------------|-----|
| Packaging Quantity | 100 |
| Packaging Method   | Bag |

Industry Standards

|                                           |              |
|-------------------------------------------|--------------|
| Compatible With Agency/Standards Products | UL, VDE, CSA |
| UL Rating                                 | Recognized   |



|                                             |                               |
|---------------------------------------------|-------------------------------|
| Compatible With Approved Standards Products | UL E28476                     |
| Glow Wire Rating                            | Standard Part - Not Glow Wire |
| UL Flammability Rating                      | UL 94V-2                      |

Usage Conditions

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

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                    |

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 |

Contact Features

|                                                         |                               |
|---------------------------------------------------------|-------------------------------|
| Contact Underplating Material                           | Nickel                        |
| Mating Pin Diameter                                     | 2.2 mm[.087 in]               |
| Contact Underplating Material Thickness                 | 1.27 – 1.79 µm[50 – 70 µin]   |
| Contact Size                                            | 2.2mm                         |
| 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                                          | Matrix                        |
| Contact Base Material                                   | Phosphor Bronze               |
| PCB Contact Termination Area Plating Material           | Pre-Tin                       |
| Contact Mating Area Plating Material                    | Pre-Tin                       |
| Contact Type                                            | Pin                           |



|                              |      |
|------------------------------|------|
| Contact Current Rating (Max) | 12 A |
|------------------------------|------|

Housing Features

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

Configuration Features

|                                  |              |
|----------------------------------|--------------|
| Number of Columns                | 3            |
| Number of Loaded Positions       | 6            |
| Number of Power Positions        | 6            |
| Connector Contact Load Condition | Fully Loaded |
| PCB Mount Orientation            | Vertical     |
| Number of Positions              | 6            |
| Number of Rows                   | 2            |

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 |

Body Features

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

Operation/Application

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

Other

|                    |           |
|--------------------|-----------|
| EU RoHS Compliance | Compliant |
| EU ELV Compliance  | Compliant |

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)<br>Candidate List Declared Against: JUNE 2024 (241)<br>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

|                                                      |                                                            |                                                           |                                                         |
|------------------------------------------------------|------------------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------------|
| <br>TE Part # 1586860-1<br>06P UMNL CAP HSG, GW      | <br>TE Part # 8-794536-1<br>06P UMNL CAP HSG 150C BLK, SPE | <br>TE Part # 926682-4<br>6P UN-MNL AUFN-GEH              | <br>TE Part # 1969881-1<br>06P UMNL CAP HSG, P/M, GW V0 |
| <br>TE Part # 643749-1<br>06P UMNL HDR ASSY W/O DRNS | <br>TE Part # 350848-6<br>06P UMNL PLUG TEST ASSY 94V0     | <br>TE Part # 1586090-3<br>06P UMNL PINHDR W/O DR HOLE LF | <br>TE Part # 643253-1<br>06P UMNL ASSY MOD HSG VO      |



TE Part # 1-350590-0  
STR/REL CLAMP NATL



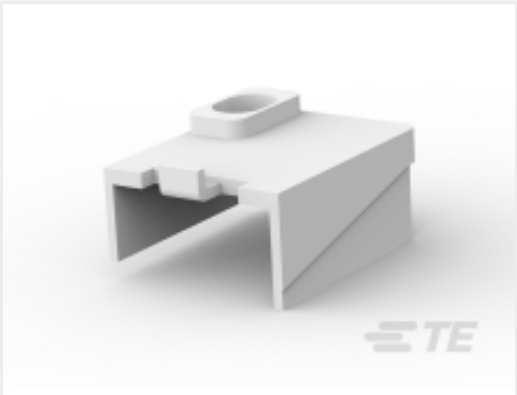
TE Part # 1586090-1  
06P UMNL PINHDR NO DRAIN HOLE



TE Part # 926682-1  
UNIVERSAL M-N-L CAP 6 POS



TE Part # 3-480704-0  
06P UMNL PLUG HSG NATL



TE Part # 1-640721-0  
06P UMNL STR/REL & INSRT NATL



TE Part # 1586887-1  
06P UMNL CAP HSG, P/M, GW



TE Part # 640715-1  
06P UMNL STR/REL



TE Part # 794536-1  
06P UMNL CAP HSG 150C BLK



TE Part # 794714-3  
06P UMNL CAP HSG RED,PAN MNT



TE Part # 350812-1  
STR/REL CLAMP UMNL



TE Part # 926682-3  
06P UNIV.M-N-L.HSG.



TE Part # 2029367-1  
06P UMNL-II TW-N-LK-CAP FRONT

Also in the Series | Universal MATE-N-LOK



Connector Caps & Covers(34)



Connector Contacts(209)



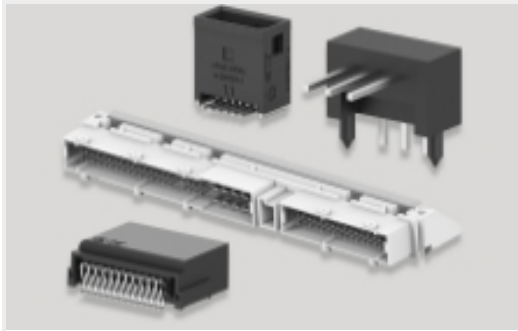
Connector Seals & Cavity Plugs(27)



Connector Strain Relief(7)



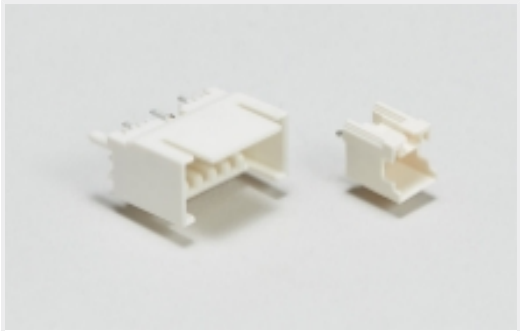
Insertion & Extraction Tools(4)



PCB Headers & Receptacles(284)



Power Contacts(209)



Wire-to-Board Headers & Receptacles (284)

Customers Also Bought





TE Part #440053-5  
2.5MM,HDR,5POS,R/A



TE Part #1558676-3  
T9GS1L24-12



TE Part #641973-1  
12P UMNL PIN HDR ASSY V2 NATL



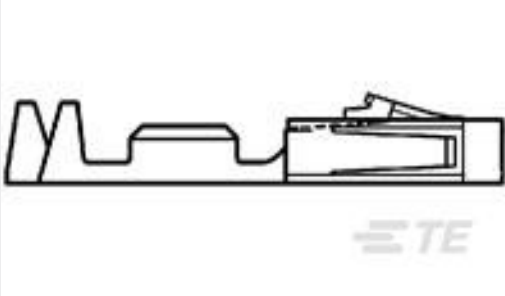
TE Part #641965-1  
03P UMNL PIN HDR ASSY V2 NATL



TE Part #641963-1  
02P UMNL PIN HDR ASSY POL NATL



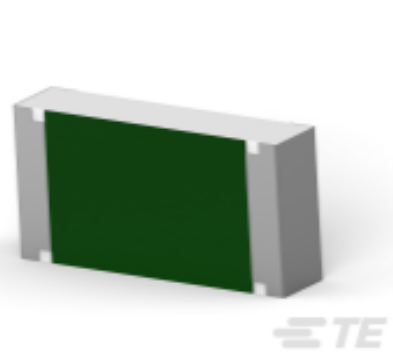
TE Part #641967-1  
04P UMNL PIN HDR ASSY POL NATL



TE Part #104479-7  
SHORT POINT RECP CONT LP



TE Part #4-1623931-0  
CFR25 5% 4M7



TE Part #2-2176399-5  
3502 27K 5%



TE Part #643428-1  
12P UMNL HDR ASSY POL 94VO

Documents

Product Drawings

06P UMNL PIN HDR ASSY V2 NATL

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_641969-1\_N.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_641969-1\_N.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_641969-1\_N.3d\_stp.zip

English

Customer View Model

ENG\_CVM\_641969-1\_M.3d\_igs.zip

English



Customer View Model

[ENG\\_CVM\\_641969-1\\_M.3d\\_stp.zip](#)

English

Customer View Model

[ENG\\_CVM\\_641969-1\\_M.2d\\_dxf.zip](#)

English

3D PDF

English

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Datasheets & Catalog Pages

[SOFT\\_SHELL\\_PIN\\_SOCKET\\_CONNECTORS\\_STANDARD\\_DENSITY](#)

English

Product Specifications

[Application Specification](#)

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Agency Approvals

[UL](#)

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