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Rectangular Power Connector Type: **Header**

Connector & Housing Type: **Receptacle**

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

Number of Positions: **6**

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

Features

Product Type Features

|                                   |                       |
|-----------------------------------|-----------------------|
| Header Type                       | Fully Shrouded        |
| Rectangular Power Connector Type  | Header                |
| Connector & Housing Type          | Receptacle            |
| Connector System                  | Wire-to-Board         |
| Sealable                          | No                    |
| Connector & Contact Terminates To | Printed Circuit Board |

Configuration Features

|                            |          |
|----------------------------|----------|
| Number of Positions        | 6        |
| PCB Mount Orientation      | Vertical |
| Number of Power Positions  | 6        |
| Number of Signal Positions | 0        |
| Number of Rows             | 2        |

Electrical Characteristics

|                   |         |
|-------------------|---------|
| Operating Voltage | 600 VDC |
|-------------------|---------|



Contact Features

|                                                |                |
|------------------------------------------------|----------------|
| Multiple Contact Types                         | Without        |
| Contact Mating Area Plating Material           | Gold           |
| Contact Current Rating (Max)                   | 9.5 A          |
| Contact Retention Within Housing               | Without        |
| Contact Type                                   | Pin            |
| PCB Contact Termination Area Plating Material  | Tin-Lead       |
| Contact Mating Area Plating Material Thickness | .76 µm[30 µin] |

Termination Features

|                                             |                       |
|---------------------------------------------|-----------------------|
| Termination Post & Tail Length              | 5.47 mm[.125 in]      |
| Termination Method to Printed Circuit Board | Through Hole - Solder |

Mechanical Attachment

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

Housing Features

|                              |                  |
|------------------------------|------------------|
| PCB Mount Retention Material | Nylon            |
| Centerline (Pitch)           | 4.14 mm[.162 in] |
| Housing Color                | White            |
| Housing Material             | Nylon            |

Dimensions

|                                      |          |
|--------------------------------------|----------|
| Compatible Insulation Diameter (Max) | 3.2 mm   |
| Connector Height                     | 13.49 mm |
| Product Width                        | 9.83 mm  |
| Product Length                       | 13.97 mm |
|                                      |          |



|                    |                  |
|--------------------|------------------|
| Row-to-Row Spacing | 4.14 mm[.162 in] |
|--------------------|------------------|

Usage Conditions

|                             |                            |
|-----------------------------|----------------------------|
| Operating Temperature Range | -55 – 105 °C[-67 – 221 °F] |
|-----------------------------|----------------------------|

Operation/Application

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

Industry Standards

|                        |                               |
|------------------------|-------------------------------|
| CSA Rating             | Certified, LR 7189            |
| UL Rating              | Recognized                    |
| Agency/Standard        | CSA, UL                       |
| Approved Standards     | UL E28476                     |
| UL Flammability Rating | UL 94V-0                      |
| Glow Wire Rating       | Standard Part - Not Glow Wire |

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                  | Not Compliant                                                                                                                                                                                                                                                                                                                                                                                                                 |
| EU ELV Directive 2000/53/EC                   | Compliant with Exemptions                                                                                                                                                                                                                                                                                                                                                                                                     |
| China RoHS 2 Directive MIIT Order No 32, 2016 | Restricted Materials Above Threshold                                                                                                                                                                                                                                                                                                                                                                                          |
| EU REACH Regulation (EC) No. 1907/2006        | Current ECHA Candidate List: JUNE 2023 (235)<br>Candidate List Declared Against: JUNE 2023 (235)<br>SVHC > Threshold:<br>Pb (13% in Component Part)<br><b>Article Safe Usage Statements:</b><br>Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Recycle if possible and dispose of the article by following all applicable governmental regulations relevant to your geographic location. |
| Halogen Content                               | Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free                                                                                                                                                                                                                                                                                                                                           |
| Solder Process Capability                     | Not lead free process capable                                                                                                                                                                                                                                                                                                                                                                                                 |

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 # 794190-1  
06P MINI UMN2 PLUG HSG UL94V0

TE Part # 172168-1  
6 CIR UNIV M-N-L PLUG

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

Connector Contacts(8)

Connector Seals & Cavity Plugs(17)

Connector Strain Relief(4)

Insertion & Extraction Tools(1)

PCB Headers & Receptacles(1)

Power Contacts(84)

Rectangular Connector Keying Plugs(2)

Rectangular Connector Locking(2)



[Rectangular Power Connectors\(244\)](#)

Customers Also Bought



TE Part #1-5747150-3  
[09 RCPT SP/FMS SCRLK](#)



TE Part #5747871-8  
[09 PLUG SP/FMS INSRT](#)



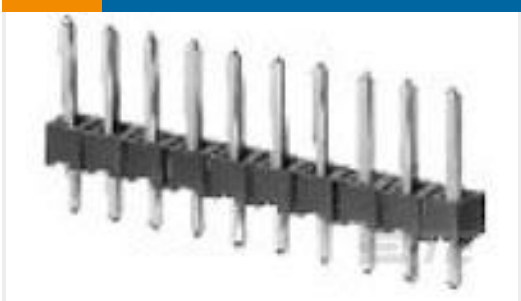
TE Part #3-2176070-9  
[3521 390R 1% 2W](#)



TE Part #1-5103308-0  
[A/L LOW PRO HDR 50P VERT BLACK](#)



TE Part #1-794070-0  
[20P MINI UMNL HDR W/DH SN LF](#)



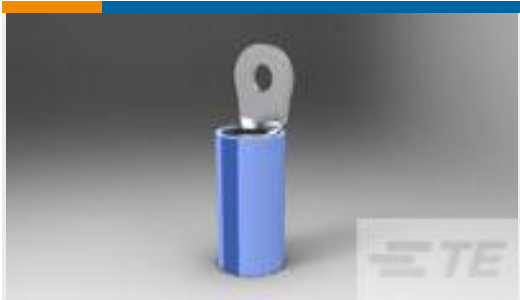
TE Part #5-146280-6  
[06 MODII HDR SRST B/A .100CL](#)



TE Part #1-770178-1  
[06P MINI UMNL ASSY VO SNAU LF](#)



TE Part #770874-1  
[04P MINI UMNL HDR ASSY SN](#)



TE Part #52274  
[TERMINAL, PIDG R IR 16 4](#)

Documents

Product Drawings

[06P MINI-UMNL ASSY VO SNAU](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_770178-2\\_N.2d\\_dxf.zip](#)



English

Customer View Model

[ENG\\_CVM\\_CVM\\_770178-2\\_N.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_770178-2\\_N.3d\\_stp.zip](#)

English

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Datasheets & Catalog Pages

[SOFT\\_SHELL\\_PIN\\_AND\\_SOCKET\\_CONNECTORS\\_CATALOG](#)

English

Product Specifications

[Application Specification](#)

English

Product Environmental Compliance

[MD\\_770178-2\\_013120172341\\_dmtec](#)

English

[MD\\_770178-2\\_013120172341\\_dmtec](#)

English

Instruction Sheets

[Instruction Sheet \(U.S.\)](#)

English

[Instruction Sheet \(U.S.\)](#)

English

Agency Approvals

[Agency Approval Document](#)

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