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Rectangular Power Connector Type: **Header**

Connector & Housing Type: **Plug**

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

Number of Positions: **8**

Centerline (Pitch): **6.35 mm [.25 in ]**

Features

Product Type Features

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

Configuration Features

|                           |          |
|---------------------------|----------|
| Number of Positions       | 8        |
| PCB Mount Orientation     | Vertical |
| Number of Power Positions | 8        |
| Number of Rows            | 1        |

Electrical Characteristics

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

Contact Features

|                        |         |
|------------------------|---------|
| Multiple Contact Types | Without |
|------------------------|---------|



|                                                |                               |
|------------------------------------------------|-------------------------------|
| Contact Layout                                 | Inline                        |
| Contact Mating Area Plating Material           | Tin                           |
| Contact Current Rating (Max)                   | 12 A                          |
| Contact Retention Within Housing               | Without                       |
| Contact Type                                   | Pin                           |
| PCB Contact Termination Area Plating Material  | Pre-Tin                       |
| Contact Mating Area Plating Material Thickness | 3.81 – 5.08 µm[150 – 200 µin] |

Termination Features

|                                |                       |
|--------------------------------|-----------------------|
| Termination Post & Tail Length | 3.81 mm[.149 in]      |
| Termination Method to PCB      | Through Hole - Solder |

Mechanical Attachment

|                          |                         |
|--------------------------|-------------------------|
| PCB Mount Alignment Type | Standard Polarized Tail |
| Strain Relief            | Without                 |
| Mating Alignment Type    | Polarization            |
| Mating Retention         | With                    |
| Mating Alignment         | With                    |
| PCB Mount Alignment      | With                    |
| Panel Mount Feature      | Without                 |
| PCB Mount Retention      | Without                 |
| Mating Retention Type    | Positive Lock           |
| Connector Mounting Type  | Board Mount             |

Housing Features

|                    |                 |
|--------------------|-----------------|
| Centerline (Pitch) | 6.35 mm[.25 in] |
| Housing Color      | White           |
| Housing Material   | Nylon           |

Dimensions

|                             |                  |
|-----------------------------|------------------|
| Connector Height            | 7.62 mm          |
| PCB Thickness (Recommended) | 3.18 mm[.125 in] |
| Product Width               | 13.97 mm         |
| Product Length              | 52.07 mm         |

Usage Conditions

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



Operation/Application

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

Industry Standards

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

Packaging Features

|                    |           |
|--------------------|-----------|
| Packaging Quantity | 100       |
| Packaging Method   | Bag & Box |

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

|                                                             |                                                    |                                             |                                                |
|-------------------------------------------------------------|----------------------------------------------------|---------------------------------------------|------------------------------------------------|
| <p>TE Part # 1-350589-0<br/>STR/REL CLAMP NATL</p>          | <p>TE Part # 640582-1<br/>08P UMNL PLUG HSG</p>    | <p>TE Part # 350811-1<br/>STR/REL CLAMP</p> | <p>TE Part # 643314-1<br/>08P UMNL STR/REL</p> |
| <p>TE Part # 643406-3<br/>05P UMNL PIN HDR ASS BLK 94VO</p> | <p>TE Part # 643314-2<br/>08P UMNL STR/REL HSG</p> |                                             |                                                |

Also in the Series | Universal MATE-N-LOK

|                                               |                                        |                                            |                                          |
|-----------------------------------------------|----------------------------------------|--------------------------------------------|------------------------------------------|
| <p>Circular Power Connectors(2)</p>           | <p>Connector Caps &amp; Covers(34)</p> | <p>Connector Contacts(209)</p>             | <p>Connector Hardware(12)</p>            |
| <p>Connector Seals &amp; Cavity Plugs(27)</p> | <p>Connector Strain Relief(7)</p>      | <p>Insertion &amp; Extraction Tools(4)</p> | <p>Rectangular Connector Housings(1)</p> |



[Rectangular Power Connectors\(670\)](#)



[Standard Circular Connectors\(1\)](#)

Customers Also Bought



TE Part #DTF15-12PD  
[HDR, 12P, BRN, ST, SN/NI/CU, D](#)



TE Part #5-103817-2  
[12 MODII HDR 3RST UNSHRD .100](#)



TE Part #643430-1  
[15P UMNL HDR ASSY POL 94VO](#)



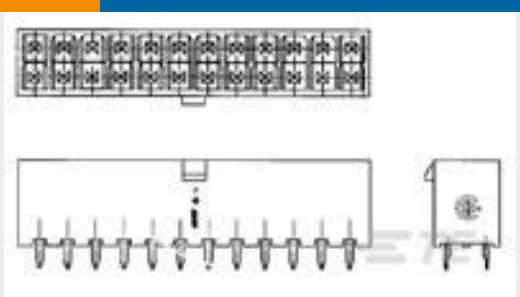
TE Part #641975-1  
[15P UMNL PIN HDR ASSY POL NATL](#)



TE Part #643425-1  
[09P UMNL HDR ASSY POL](#)



TE Part #643413-1  
[03P UMNL HDR ASSY SCKT POL](#)



TE Part #2-1586038-4  
[24P VRT HDR VAL-U-LOK V0](#)



TE Part #1825955-2  
[FSM1JH=6MM TACT SWITCH, HT W /ESD](#)



TE Part #1-66473-9  
[SKT,.062 DIA,.045 SQ POST,LP](#)



TE Part #1969830-1  
[6P UMNL SKT ASSY GW](#)

Documents

Product Drawings

[08P UMNL PIN HDR ASSY POL 94VO](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_643410-1\\_L.2d\\_dxf.zip](#)



English

Customer View Model

[ENG\\_CVM\\_CVM\\_643410-1\\_L.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_643410-1\\_L.3d\\_stp.zip](#)

English

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Datasheets & Catalog Pages

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

English

Product Specifications

[Application Specification](#)

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Instruction Sheets

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

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Agency Approvals

[UL](#)

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