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Rectangular Power Connector Type: **Housing**

Connector & Housing Type: **Receptacle**

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

Number of Positions: **16**

Centerline (Pitch): **4.2 mm [.165 in]**

Features

Product Type Features

|                                   |                             |
|-----------------------------------|-----------------------------|
| Rectangular Power Connector Type  | Housing                     |
| Connector & Housing Type          | Receptacle                  |
| Connector System                  | Wire-to-Board, Wire-to-Wire |
| Sealable                          | No                          |
| Connector & Contact Terminates To | Wire & Cable                |

Configuration Features

|                                   |               |
|-----------------------------------|---------------|
| Insertion Force                   | 15 Newton     |
| Compatible With Wire & Cable Type | Discrete Wire |
| Number of Positions               | 16            |
| Number of Rows                    | 2             |

Electrical Characteristics

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

Contact Features

|                |        |
|----------------|--------|
| Contact Layout | Matrix |
|----------------|--------|



|                                             |                               |
|---------------------------------------------|-------------------------------|
| Contact Retention Within Housing            | Without                       |
| Contact Type                                | Receptacle                    |
| Termination Features                        |                               |
| Termination Method to Wire & Cable          | Crimp                         |
| Mechanical Attachment                       |                               |
| Connector Mounting Type                     | Cable Mount (Free-Hanging)    |
| Housing Features                            |                               |
| Centerline (Pitch)                          | 4.2 mm[.165 in]               |
| Housing Color                               | Natural                       |
| Housing Material                            | Nylon                         |
| Dimensions                                  |                               |
| Connector Height                            | 11.8 mm[.464 in]              |
| Product Width                               | 20 mm[.787 in]                |
| Product Length                              | 34.8 mm[1.37 in]              |
| Compatible Insulation Diameter Range        | 1.2 - 3.1 mm[.047 - .122 in]  |
| Row-to-Row Spacing                          | 4.2 mm[.165 in]               |
| Usage Conditions                            |                               |
| Operating Temperature Range                 | -40 - 105 °C[-40 - 221 °F]    |
| Operation/Application                       |                               |
| Circuit Application                         | Power & Signal                |
| Identification Marking                      |                               |
| Circuit Identification Feature              | With                          |
| Industry Standards                          |                               |
| CSA Rating                                  | 208567                        |
| UL Rating                                   | Recognized                    |
| Compatible With Agency/Standards Products   | CSA, UL                       |
| Compatible With Approved Standards Products | UL E28476                     |
| UL Flammability Rating                      | UL 94V-2                      |
| Glow Wire Rating                            | Standard Part - Not Glow Wire |
| Packaging Features                          |                               |
| Packaging Quantity                          | 500                           |



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 2024 (240)<br>Candidate List Declared Against: JAN 2024 (240)<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                     | Not applicable for solder process capability                                                                                  |

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 # 1-1586037-6  
16P VERT HDR VAL-U-LOK V2

TE Part # 1-1586039-6  
16P VAL-U-LOK VRT HDR W/P V2

TE Part # 1-1586043-6  
16P VAL-U-LOK R/A HDR SCRMT V2

TE Part # 1-1586000-6  
16P FH PLUG VAL-U-LOK V2



TE Part # 1-1586585-6  
16P VAL-U-LOK BMI VRT HDR V2

TE Part # 1-1586041-6  
16P VAL-U-LOK R/A HDR V2

TE Part # 1-1586586-6  
16P VAL-U-LOK BMI VRT HDR V2

TE Part # 1-794953-6  
16P PM PLUG VAL-U-LOK V2

TE Part # 4-1586040-6  
16P VAL-U-LOK VRT HDR W/P V0 gold

Customers Also Bought

TE Part # 1-1586037-2  
12P VERT HDR VAL-U-LOK V2

TE Part # 1586103-3  
3P PLUG VAL-U-LOK SR FH V2

TE Part # 794953-4  
4P PM PLUG VAL-U-LOK V2

TE Part # 794954-4  
4P RCPT VAL-U-LOK V2

TE Part # 3-640601-3  
03P MTA156 CONN ASSY 22AWG LF

TE Part # 794954-8  
8P RCPT VAL-U-LOK V2

TE Part # 1586055-1  
VAL-U-LOK SKT BR SN 16AWG

TE Part # 794955-1  
VAL-U-LOK PIN BR SN 22-18AWG

TE Part # 1-794954-4  
14P RCPT VAL-U-LOK V2

TE Part # 1-794954-8  
18P RCPT VAL-U-LOK V2

Documents



Product Drawings

16P RCPT VAL-U-LOK V2

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_1-794954-6\_E.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_1-794954-6\_E.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_1-794954-6\_E.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

Agency Approvals

VDE Certificate

English