



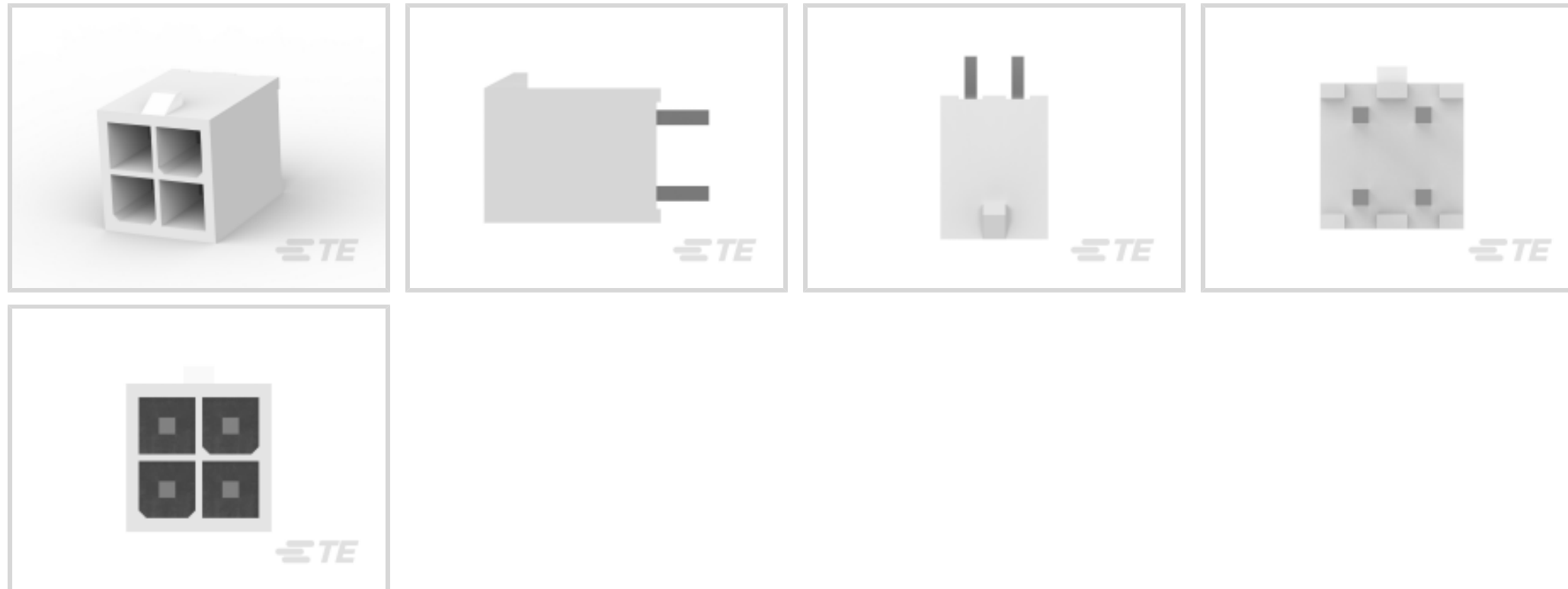
VAL-U-LOK

TE Internal #: 1586038-4

Header, Plug, Wire-to-Board, 4 Position, 4.2 mm [.165 in]  
Centerline, Printed Circuit Board, UL 94V-0, Rectangular Power Connectors

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Connectors > Power Connectors > Rectangular Power > Rectangular Power Connectors



Rectangular Power Connector Type: **Header**

Connector & Housing Type: **Plug**

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

Number of Positions: **4**

Centerline (Pitch): **4.2 mm [.165 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       | 4        |
| PCB Mount Orientation     | Vertical |
| Number of Power Positions | 4        |
| Number of Rows            | 2        |

**Electrical Characteristics**

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

**Contact Features**

|                |                             |
|----------------|-----------------------------|
| Contact Layout | Inline, Matrix, Square Grid |
|----------------|-----------------------------|



|  |  |
|--|--|
| Contact Mating Area Plating Material           | Tin  |
| Contact Current Rating (Max)                   | 9 A  |
| Contact Retention Within Housing               | Without  |
| Contact Type                                   | Pin  |
| PCB Contact Termination Area Plating Material  | Tin  |
| Contact Mating Area Plating Material Thickness | 2.03 – 5.08 $\mu\text{m}$ [80 – 200 $\mu\text{in}$ ] |

### Termination Features

|                                |                       |
|--------------------------------|-----------------------|
| Termination Post & Tail Length | 3.5 mm[.138 in]       |
| Termination Method to PCB      | Through Hole - Solder |

### Mechanical Attachment

|                         |             |
|-------------------------|-------------|
| Mating Alignment Type   | Keyed       |
| Mating Retention        | With        |
| Mating Alignment        | With        |
| PCB Mount Alignment     | Without     |
| PCB Mount Retention     | Without     |
| Mating Retention Type   | Latch       |
| Connector Mounting Type | Board Mount |

### Housing Features

|                    |                 |
|--------------------|-----------------|
| Centerline (Pitch) | 4.2 mm[.165 in] |
| Housing Color      | Natural         |
| Housing Material   | Nylon           |

### Dimensions

|                                      |                              |
|--------------------------------------|------------------------------|
| Compatible Insulation Diameter (Max) | 2.39 mm[2.39 in]             |
| Connector Height                     | 12.8 mm[.504 in]             |
| PCB Thickness (Recommended)          | .06 mm[1.6 in]               |
| Product Width                        | 9.75 mm[.384 in]             |
| Product Length                       | 9.6 mm[.378 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 $^{\circ}\text{C}$ [-40 – 221 $^{\circ}\text{F}$ ] |
|-----------------------------|--|

### Operation/Application



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

### Identification Marking

|                                |      |
|--------------------------------|------|
| Circuit Identification Feature | With |
|--------------------------------|------|

### Industry Standards

|           |            |
|-----------|------------|
| UL Rating | Recognized |
|-----------|------------|

|   |    |
|---|----|
| Compatible With Agency/Standards Products | UL |
|---|----|

|   |           |
|---|-----------|
| 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 | 600 |
|--------------------|-----|

|                  |                  |
|------------------|------------------|
| Packaging Method | Box & Tray, Tray |
|------------------|------------------|

### 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

TE Part # 1586019-4  
4P RCPT VAL-U-LOK V0

TE Part # 1969613-4  
4P PM PLUG VAL-U-LOK V0

TE Part # 2029172-4  
4P VRT HDR VAL-U-LOK V2 W/ODH

TE Part # 1969612-4  
4P FH PLUG VAL-U-LOK V0

TE Part # 794318-1  
AMP DUAC/PL 04P KIT BULK PKG

## Customers Also Bought

TE Part # 211903-1  
CMC DUST CAP ASSM SIZE 22

TE Part # 2-1586041-0  
20P VAL-U-LOK R/A HDR V2

TE Part # 2-1586037-4  
24P VERT HDR VAL-U-LOK V2

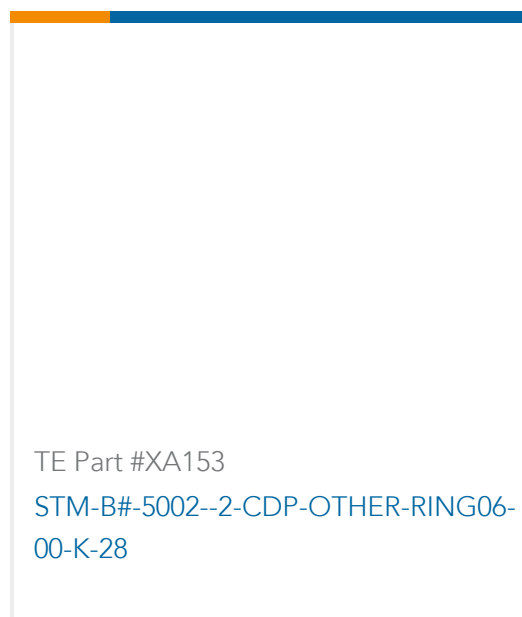
TE Part # 2-1586038-0  
20P VRT HDR VAL-U-LOK V0

TE Part # 1-1586861-4  
14P PM PLUG VAL-U-LOK PM GW

TE Part # 5-1393302-2  
V23134A0053G243-EV-CBOX

TE Part # 3-1414937-3  
V23134J0065X497-EV-CBOX

TE Part # 1-1586041-0  
10P VAL-U-LOK R/A HDR V2



## Documents

### Product Drawings

[4P VRT HDR VAL-U-LOK V0](#)

English

### CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_1586038-4\\_C.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_1586038-4\\_C.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_1586038-4\\_C.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

[UL Report](#)

English