



VAL-U-LOK

TE Internal #: 2029096-6

Rectangular Connector Housings, Wire-to-Wire, 15 Newton Insertion Force, 6 Position, .165 in [4.2 mm] Centerline, 2 Row, Nylon GF, Plug, Pin

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Connectors > Rectangular Connectors > Rectangular Connector Housings



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

Insertion Force: **15 Newton**

Number of Positions: **6**

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

Row-to-Row Spacing: **4.2 mm [ .165 in ]**

**Features**

**Product Type Features**

|                                   |                               |
|-----------------------------------|-------------------------------|
| Connector System                  | Wire-to-Wire                  |
| Connector & Housing Type          | Plug                          |
| Sealable                          | No                            |
| Connector & Contact Terminates To | Wire & Cable                  |
| Connector Type                    | Housing                       |
| Product Type                      | Connector                     |
| Glow Wire Rating                  | Standard Part - Not Glow Wire |

**Configuration Features**

|                     |           |
|---------------------|-----------|
| Insertion Force     | 15 Newton |
| Number of Positions | 6         |
| Number of Rows      | 2         |

**Electrical Characteristics**

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

**Contact Features**



|              |     |
|--------------|-----|
| Contact Type | Pin |
|--------------|-----|

### Mechanical Attachment

|                         |                            |
|-------------------------|----------------------------|
| Connector Mounting Type | Cable Mount (Free-Hanging) |
|-------------------------|----------------------------|

### Housing Features

|                    |                  |
|--------------------|------------------|
| Centerline (Pitch) | 4.2 mm [.165 in] |
|--------------------|------------------|

|                  |          |
|------------------|----------|
| Housing Material | Nylon GF |
|------------------|----------|

|               |      |
|---------------|------|
| Housing Color | Blue |
|---------------|------|

### Dimensions

|                    |                  |
|--------------------|------------------|
| Row-to-Row Spacing | 4.2 mm [.165 in] |
|--------------------|------------------|

|        |                   |
|--------|-------------------|
| Height | 11.6 mm [.457 in] |
|--------|-------------------|

|        |                   |
|--------|-------------------|
| Length | 13.8 mm [.543 in] |
|--------|-------------------|

|       |                   |
|-------|-------------------|
| Width | 23.8 mm [.937 in] |
|-------|-------------------|

### Usage Conditions

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

### Operation/Application

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

### Industry Standards

|            |        |
|------------|--------|
| CSA Rating | 208567 |
|------------|--------|

|                 |         |
|-----------------|---------|
| Agency/Standard | CSA, UL |
|-----------------|---------|

|                 |        |
|-----------------|--------|
| CSA File Number | 208567 |
|-----------------|--------|

|                |        |
|----------------|--------|
| UL File Number | E28476 |
|----------------|--------|

|                        |          |
|------------------------|----------|
| UL Flammability Rating | UL 94V-2 |
|------------------------|----------|

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

### Packaging Features

|                    |     |
|--------------------|-----|
| Packaging Quantity | 500 |
|--------------------|-----|

|                  |         |
|------------------|---------|
| Packaging Method | Package |
|------------------|---------|

### 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 |
|-----------------------------|-----------|



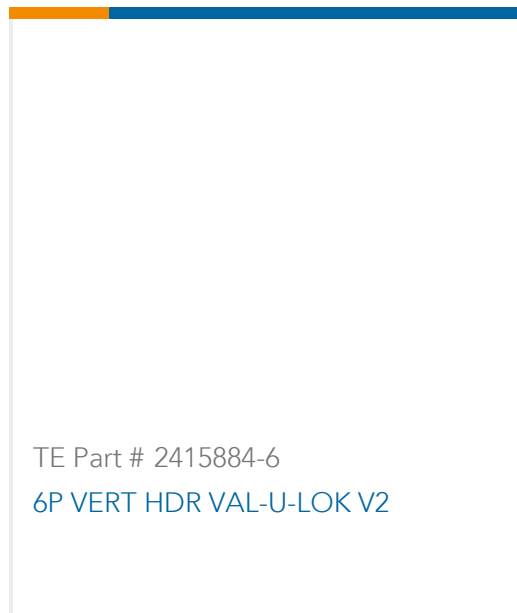
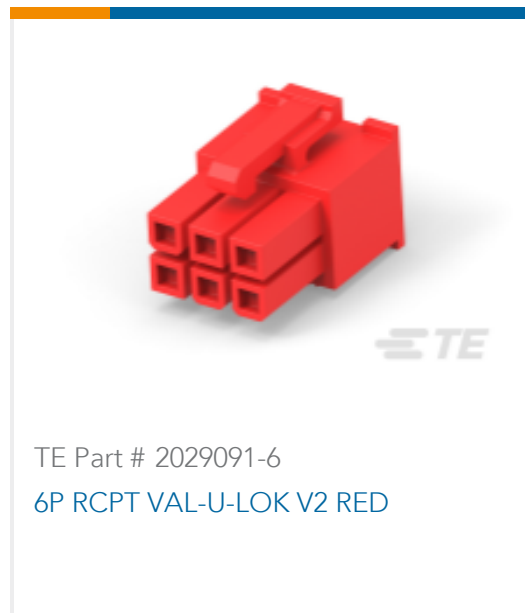
|   |  |
|---|--|
| China RoHS 2 Directive MIIT Order No 32, 2016 | No Restricted Materials Above Threshold  |
| EU REACH Regulation (EC) No. 1907/2006        | Current ECHA Candidate List: JUNE 2022 (224)<br>Candidate List Declared Against: JUL 2017 (174)<br>SVHC > Threshold:<br>Not Yet Reviewed |
| 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 Regulations, TE's information on SVHC in articles for this part number is still based on the European Chemical Agency (ECHA) 'Guidance on requirements for substances in articles' (Version: 2, April 2011), applying the 0.1% weight on weight concentration threshold at the finished product level. TE is aware of the European Court of Justice ruling of September 10th, 2015 also known as O5A (Once An Article Always An Article) stating that, in case of 'complex object', the threshold for a SVHC must be applied to both the product as a whole and simultaneously to each of the articles forming part of its composition. TE has evaluated this ruling based on the new ECHA "Guidance on requirements for substances in articles" (June 2017, version 4.0) and will be updating its statements accordingly.

### Compatible Parts

|  |   |  |   |
|--|---|--|---|
|  <p>TE Part # 1586037-6<br/>6P VERT HDR VAL-U-LOK V2</p>    |  <p>TE Part # 794954-6<br/>6P RCPT VAL-U-LOK V2</p>  |  <p>TE Part # 1586041-6<br/>6P VAL-U-LOK R/A HDR V2</p>     |  <p>TE Part # 1586043-6<br/>6P VAL-U-LOK R/A HDR SCR MT V2</p> |
|  <p>TE Part # 1586585-6<br/>6P VAL-U-LOK BMI VRT HDR V2</p> |  <p>TE Part # 1969597-6<br/>6P RCPT VAL-U-LOK V2</p> |  <p>TE Part # 1586586-6<br/>6P VAL-U-LOK BMI VRT HDR V2</p> |  <p>TE Part # 1586075-6<br/>6P RCPT VAL-U-LOK V2 BLK</p>       |



## Documents

### Product Drawings

[6P PLUG VAL-U-LOK V2 FH BLUE](#)

English

### CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_2029096-6\\_A\\_c-2029096-6-a.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2029096-6\\_A\\_c-2029096-6-a.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2029096-6\\_A\\_c-2029096-6-a.3d\\_stp.zip](#)

English

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### Product Specifications

[Application Specification](#)

English