

1586861-6 ✓ ACTIVE



## VAL-U-LOK

TE Internal #: 1586861-6

Rectangular Power Connectors, Housing, Plug, Wire-to-Panel /  
Wire-to-Wire, 6 Position, 4.2 mm [.165 in] Centerline, Wire & Cable,  
UL 94V-2

[View on TE.com >](#)

Connectors > Power Connectors > Rectangular Power > Rectangular Power Connectors



Rectangular Power Connector Type: **Housing**

Connector & Housing Type: **Plug**

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

Number of Positions: **6**

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

### Features

#### Product Type Features

Rectangular Power Connector Type	Housing
Connector & Housing Type	Plug
Connector System	Wire-to-Panel, Wire-to-Wire
Sealable	No
Connector & Contact Terminates To	Wire & Cable

#### Configuration Features

Number of Positions	6
Number of Power Positions	0
Number of Signal Positions	0
Number of Rows	2

#### Electrical Characteristics

Operating Voltage	600 VAC
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#### Contact Features

Contact Layout	Matrix
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Contact Retention Within Housing	Without
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Contact Type	Pin
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### Termination Features

Termination Method to Wire & Cable	Crimp
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Wire/Cable Type	Discrete Wire
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### Mechanical Attachment

Connector Mounting Type	Panel Mount
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### Housing Features

Centerline (Pitch)	4.2 mm [.165 in]
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Housing Color	White
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Housing Material	Polyamide
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### Dimensions

Row-to-Row Spacing	4.2 mm [.165 in]
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Width	23.9 mm [.94 in]
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Accepts Wire Insulation Diameter Range	1.2 – 3.1 mm [.047 – .122 in]
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Height	9.6 mm [.378 in]
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Length	13.8 mm [.543 in]
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### Usage Conditions

Operating Temperature Range	-40 – 105 °C [-40 – 221 °F]
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Insertion Force	15 Newton
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### Operation/Application

Assembly Integration Feature	Without
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Circuit Application	Power & Signal
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### Identification Marking

Circuit Identification Feature	With
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### Industry Standards

UL Flammability Rating	UL 94V-2
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Glow Wire Rating	GWT 750°C (Without Flame)
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Agency/Standard Number	E28476
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Agency/Standard	CSA, UL
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UL Rating	Recognized
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CSA File Number	208567
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VDE Tested	No
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### Packaging Features

Packaging Method	Bag
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Packaging Quantity	500
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### Other

For Use With	Printed Circuit Board
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## Product Compliance

[For compliance documentation, visit the product page on TE.com>](#)

EU RoHS Directive 2011/65/EU	Compliant
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EU ELV Directive 2000/53/EC	Compliant
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China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
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EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2022 (224) Candidate List Declared Against: JUNE 2022 (224) Does not contain REACH SVHC
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Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
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Solder Process Capability	Not applicable for solder process capability
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#### 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 # 1586765-6  
6P RCPT VAL-U-LOK GW



TE Part # 2029265-6  
6P VAL-U-LOK VRTHDR W/PGS GW



TE Part # 2296205-6  
6P RCPT VAL-U-LOK GWT/V0



TE Part # 1586768-6  
6P VERT HDR VAL-U-LOK GW



TE Part # 1586863-6  
6P VAL-U-LOK R/A HDR GW



TE Part # 2029059-6  
6P VAL-U-LOK VRTHDR W/PGS GW

## Documents

### Product Drawings

[6P PM PLUG VAL-U-LOK PM GW](#)

English

### CAD Files

Customer View Model

[ENG\\_CVM\\_CVM\\_1586861-6\\_B.2d\\_dxf.zip](#)

English

### 3D PDF

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_1586861-6\\_B.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_1586861-6\\_B.3d\\_stp.zip](#)

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

### Datasheets & Catalog Pages

[VAL-U-LOK\\_GLOW\\_WIRE\\_CONNECTORS](#)

English

### Product Specifications

[Application Specification](#)

English

### Agency Approvals

[UL Report](#)

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Position, 4.2 mm [.165 in] Centerline, Wire & Cable, UL 94V-2



English