



VAL-U-LOK

TE Internal #: 1586862-6
Rectangular Power Connectors, Housing, Plug, Wire-to-Wire, 6
Position, 4.2 mm [.165 in] Centerline, Wire & Cable, UL 94V-2, GWT
750°C (Without Flame)

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Connectors > Power Connectors > Rectangular Power > Rectangular Power Connectors



Rectangular Power Connector Type: **Housing**
Connector & Housing Type: **Plug**
Connector System: **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-Wire
Sealable	No
Connector & Contact Terminates To	Wire & Cable

Configuration Features

Compatible With Wire & Cable Type	Discrete Wire
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
Contact Retention Within Housing	Without
Contact Type	Receptacle

Termination Features

Termination Method to Wire & Cable	Crimp
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Mechanical Attachment

Connector Mounting Type	Cable Mount (Free-Hanging)
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Housing Features

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

Dimensions

Connector Height	11.6 mm[.45 in]
Product Width	23.9 mm[.94 in]
Product Length	13.8 mm[.543 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]
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Operation/Application

Circuit Application	Power & Signal
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Identification Marking

Circuit Identification Feature	With
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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	GWT 750°C (Without Flame)

Packaging Features

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Packaging Quantity	500
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: JAN 2024 (240) Candidate List Declared Against: JAN 2024 (240) Does not contain REACH SVHC
Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
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 # 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

Customers Also Bought

TE Part # 1-770166-0
02P MINI-UMNL ASSY VO SNNI*

TE Part # 1-794608-1
PIN CONT 20-24 15 GOLD STRIP

TE Part # 1586765-6
6P RCPT VAL-U-LOK GW

TE Part # 794606-1
MICRO MNL RPT CNT STRIP 20-24

TE Part # 61795-3
RING 18-14 AWG TPBR

TE Part # 2321918-2
PLUG HOUSING SDL2.5
WATERPROOF 2PIN

TE Part # CH03456001
QSZH-125-NR1-35MM

TE Part # 293010-4
5 POS. FASTIN-FASTON CONN. TAB
HOUSING R

TE Part # 4-1744524-3
3.96 EP HDR ASY 03P ,NO 2 PIN, GW

Documents

Product Drawings
6P FH PLUG VAL-U-LOK FH GW
English

CAD Files
3D PDF
3D
Customer View Model
ENG_CVM_CVM_1586862-6_B_c-1586862-6-b.2d_dxf.zip



English

Customer View Model

[ENG_CVM_CVM_1586862-6_B_c-1586862-6-b.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1586862-6_B_c-1586862-6-b.3d_stp.zip](#)

English

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Datasheets & Catalog Pages

[VAL-U-LOK_GLOW_WIRE_CONNECTORS](#)

English

Product Specifications

[Application Specification](#)

English

Agency Approvals

[UL Report](#)

English