



VAL-U-LOK

TE Internal #: 1-1586017-2

Rectangular Power Connectors, Housing, Plug, Wire-to-Wire, 12

Position, 4.2 mm [.165 in] Centerline, Wire & Cable, UL 94V-0

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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: **12**

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

Number of Positions	12
Number of Rows	2

Electrical Characteristics

Operating Voltage	600 VAC
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Contact Features

Contact Layout	Matrix
Multiple Contact Types	With
Contact Retention Within Housing	Without



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	Cable Mount (Free-Hanging)
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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	Nylon
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Dimensions

Row-to-Row Spacing	4.2 mm [.165 in]
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Width	23.8 mm [.937 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	26.4 mm [1.039 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-0
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Glow Wire Rating	Standard Part - Not Glow Wire
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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
Packaging Quantity	500

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) Candidate List Declared Against: JUNE 2022 (224) 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

 <p>TE Part # 1-1586019-2 12P RCPT VAL-U-LOK V0</p>	 <p>TE Part # 1-1969614-2 12P RCPT VAL-U-LOK V0</p>	 <p>TE Part # 1-2029171-2 12P VRT HDR VAL-U-LOK V0 W/ODH</p>	 <p>TE Part # 1-2029173-2 12P VRT HDR VAL-U-LOK V0 W/ODH</p>
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Documents

Product Drawings

[12P FH PLUG VAL-U-LOK V0](#)

English

CAD Files

Customer View Model

[ENG_CVM_CVM_1-1586017-2_B.2d_dxf.zip](#)

English

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_1-1586017-2_B.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1-1586017-2_B.3d_stp.zip](#)

English

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Datasheets & Catalog Pages

[SOFT_SHELL_PIN_AND_SOCKET_CONNECTORS_CATALOG](#)

English

Product Specifications

[Application Specification](#)

English

Agency Approvals

[UL Report](#)

English