

1-1586038-2 ✓ ACTIVE

VAL-U-LOK

TE Internal #: 1-1586038-2

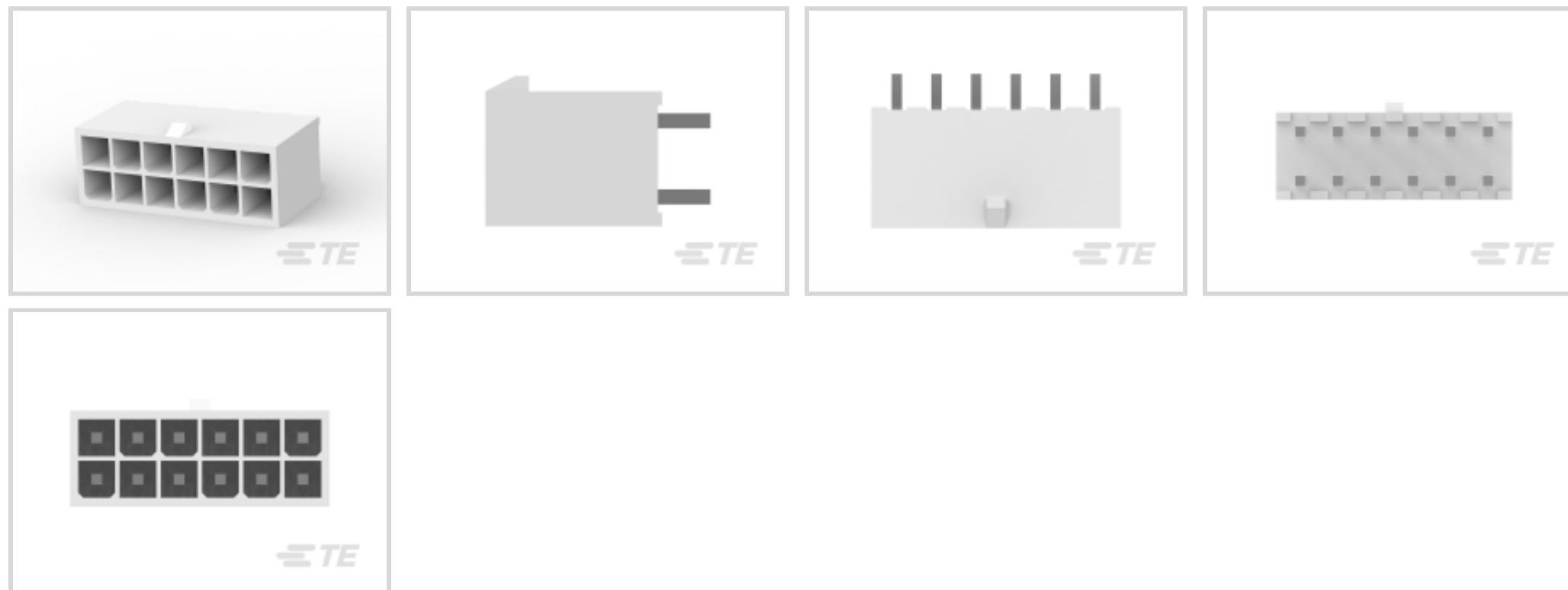
Rectangular Power Connectors, Header, Plug, Wire-to-Board, 12

Position, 4.2 mm [.165 in] Centerline, Printed Circuit Board, UL 94V-0

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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: **12**

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 | 12 |
| PCB Mount Orientation | Vertical |
| Number of Power Positions | 12 |
| Number of Rows | 2 |

Electrical Characteristics

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

Contact Features

| | |
|----------------|----------------|
| Contact Layout | Inline, Matrix |
|----------------|----------------|

| | |
|--|-----------------|
| 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 µm[80 µin] |

Termination Features

| | |
|---|-----------------------|
| Termination Post & Tail Length | 3.5 mm[.138 in] |
| Termination Method to Printed Circuit Board | 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[.093 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 | 26.4 mm[1.039 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] |
|-----------------------------|----------------------------|

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

225

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

Out of Scope

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

Low Halogen - Br, Cl, F, I < 900 ppm per
homogenous material. Also BFR/CFR/PVC
Free

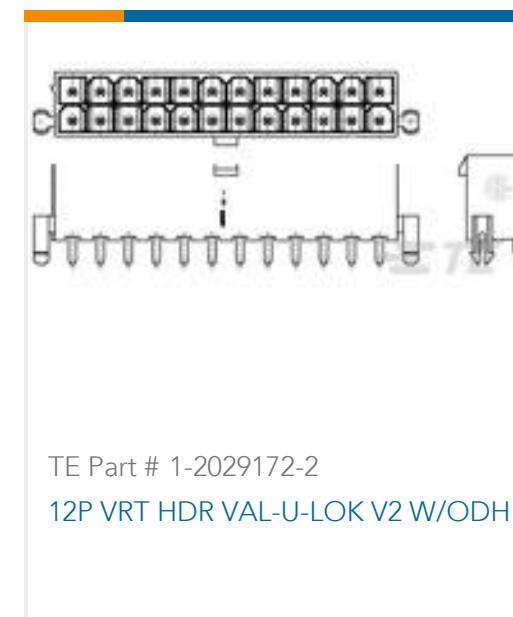
Solder Process Capability

Wave solder capable to 265°C

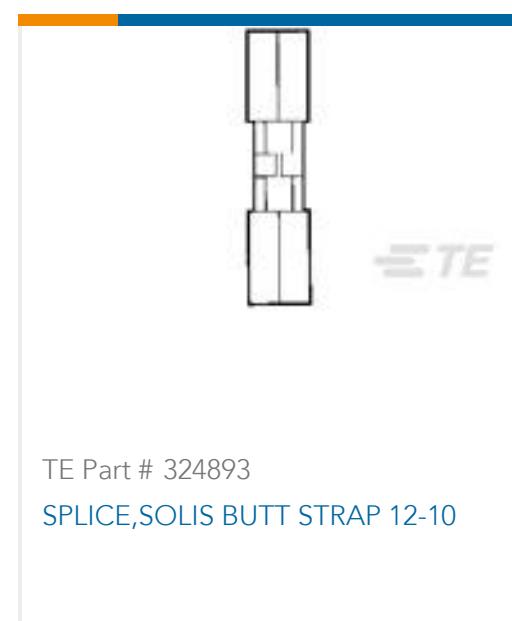
Product Compliance Disclaimer

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 # 1-1586019-2
12P RCPT VAL-U-LOK V0TE Part # 1-1969613-2
12P PM PLUG VAL-U-LOK V0TE Part # 1-1969612-2
12P FH PLUG VAL-U-LOK V0TE Part # 1-2029172-2
12P VRT HDR VAL-U-LOK V2 W/ODH

Customers Also Bought

TE Part # 4-1393789-3
V23079D2001B301TE Part # 1734366-3
Std USB Type A, VT, T/H, BlueTE Part # 324893
SPLICE,SOLIS BUTT STRAP 12-10TE Part # 1734753-1
MINI USB, TYPE B, VERTICAL, T/HTE Part # 1-292207-4
MINI CT SGL DIP V 14P NATTE Part # 1571983-8
GDH06S04=DIP SWITCHTE Part # 515632-E
M12 MALE, UNI CODE, 8P, 10.5MM
SMT, DITE Part # 1-2176308-3
RP 1E 0.1W 178K 0.1% 25PPM 5K RLTE Part # 5000638-F
LDES050BF6S; PRES; 50Pa;0,5...4,5V;
5VsTE Part # 4-2176455-1
CPF 0402 287K 0.1% 25ppm 1K RL

Documents

Product Drawings

[12P VRT HDR VAL-U-LOK V0](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model[ENG_CVM_CVM_1-1586038-2_C.2d_dxf.zip](#)

English

Customer View Model[ENG_CVM_CVM_1-1586038-2_C.3d_igs.zip](#)

English

Customer View Model[ENG_CVM_CVM_1-1586038-2_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