



VAL-U-LOK

TE Internal #: 1-2029059-6

Standard Rectangular Connectors, Connector Assembly, Plug, Mating Alignment, Keyed Mating Alignment Type, Mating Retention, Wire-to-Board, Tin, Normal

[View on TE.com >](#)

Connectors > Rectangular Connectors > Standard Rectangular Connectors



Connector Product Type: **Connector Assembly**

Connector & Housing Type: **Plug**

Mating Alignment: **With**

Mating Alignment Type: **Keyed**

Mating Retention: **With**

Features

Product Type Features

Connector Product Type	Connector Assembly
Connector & Housing Type	Plug
Connector System	Wire-to-Board
Insertion Force Type	Normal
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

Contacts Preloaded	Yes
PCB Mount Orientation	Vertical
Number of Signal Positions	16
Number of Positions	16
Number of Rows	2

Electrical Characteristics

Operating Voltage	600 VAC
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Contact Features

Contact Layout	Matrix
Contact Type	Pin
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material	Tin
Contact Retention Within Housing	With
Contact Current Rating (Max)	9 A

Termination Features

Termination Post & Tail Length	3.5 mm[.138 in]
Termination Method to Printed Circuit Board	Through Hole - Solder

Mechanical Attachment

PCB Mount Alignment	With
PCB Mount Retention	With
PCB Mount Retention Type	Boardlock
Mating Alignment	With
Mating Alignment Type	Keyed
Mating Retention	With
Mating Retention Type	Latch
Connector Mounting Type	Board Mount

Housing Features

Housing Material	Polyamide
Housing Color	White
Centerline (Pitch)	4.19 mm[.165 in]

Dimensions

Compatible Insulation Diameter (Max)	2.39 mm
Connector Height	12.8 mm[.504 in]
PCB Thickness (Recommended)	1.78 mm[.07 in]
Product Width	9.75 mm[.383 in]
Product Length	34.8 mm[1.37 in]
Row-to-Row Spacing	4.2 mm[.165 in]
Compatible Insulation Diameter Range	1.2 – 3.1 mm[.047 – .122 in]
Wire Size	.12 – 1.4 mm ²



Usage Conditions

Operating Temperature Range	-40 – 105 °C[-40 – 221 °F]
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Operation/Application

Halogen Free	Yes
Shielded	No
Circuit Application	Power

Identification Marking

Circuit Identification Feature	With
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Industry Standards

CSA Rating	208567
UL Rating	Recognized
Glow Wire Rating	Glow Wire
Compatible With Agency/Standards Products	CSA, UL
Compatible With Approved Standards Products	UL E28476
UL Flammability Rating	UL 94V-2

Packaging Features

Packaging Quantity	150
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	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 2023 (235) Candidate List Declared Against: JAN 2018 (181) 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 # 1-1586861-6
16P PM PLUG VAL-U-LOK PM GW



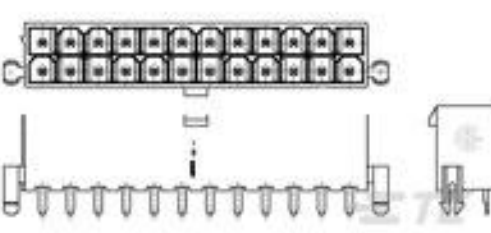
TE Part # 1-1586862-6
16P FH PLUG VAL-U-LOK FH GW



TE Part # 1-2296206-6
16P FH PLUG VAL-U-LOK FH GWT/V0



TE Part # 1-2296207-6
16P PM PLUG VAL-U-LOK PM GWT/V0

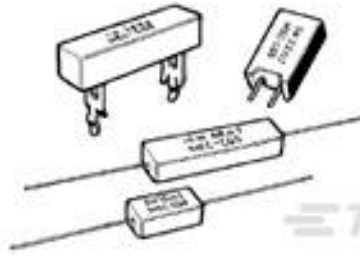


TE Part # 1-2029172-6
16P VRT HDR VAL-U-LOK V2 W/ODH



TE Part # 1-2825272-6
16P VERT HDR VAL-U-LOK HCS GW

Customers Also Bought



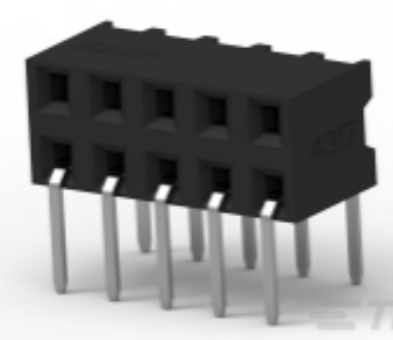
TE Part #1623804-3
SQZ10 3R9 5% WIRE



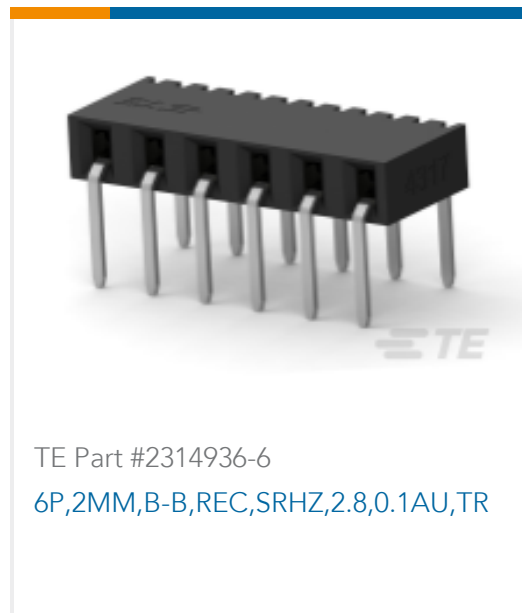
TE Part #1558666-6
PCB Power Relay: 30 amp, Monostable DC



TE Part #2108792-6
FPC Ant, MHF 4L, 50mm, Wi-Fi 6E Triple



TE Part #1-2314916-0
10P,2MM,B-B,REC,DRHZ,2.1,0.1AU,TB Triple



Documents

Product Drawings

[16P VAL-U-LOK VRTHDR W/PGS GW](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_1-2029059-6_C.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1-2029059-6_C.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1-2029059-6_C.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](#)



English