

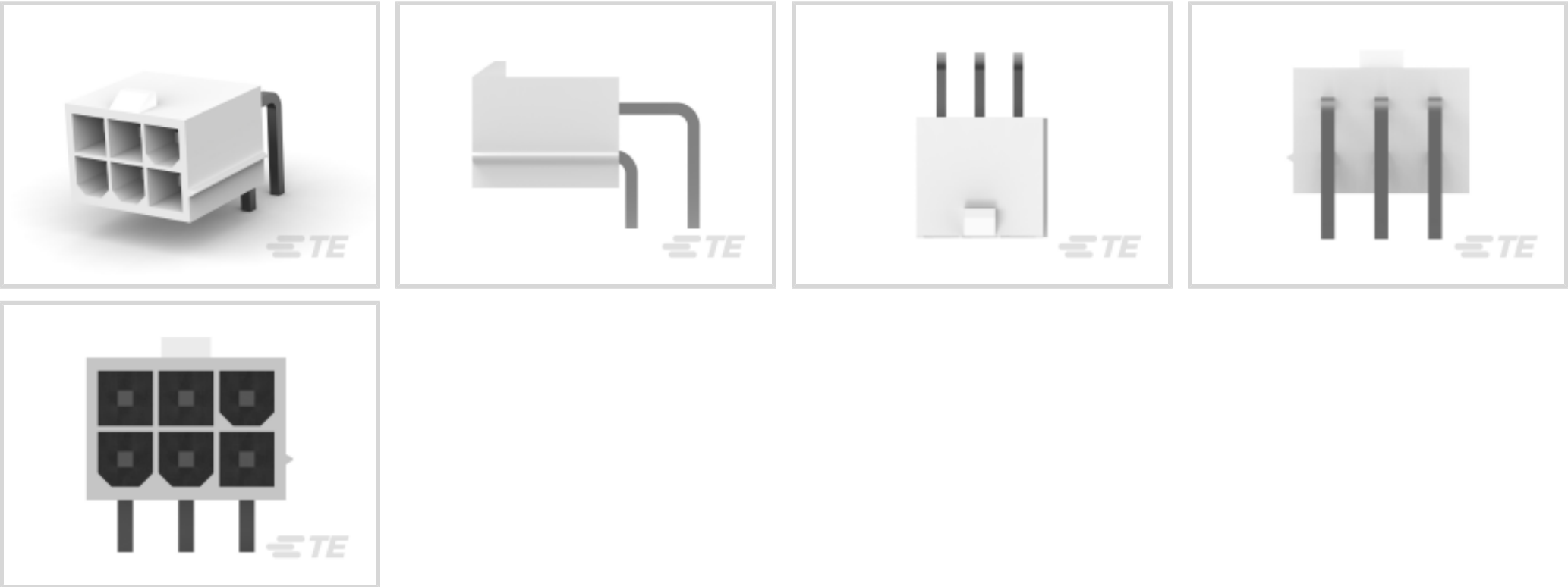


VAL-U-LOK

TE Internal #: 1586863-6
Header, Plug, Wire-to-Board, 6 Position, 4.2 mm [.165 in]
Centerline, Printed Circuit Board, UL 94V-2, Rectangular Power
Connectors

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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: **6**
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	6
PCB Mount Orientation	Right Angle
Number of Power Positions	6
Number of Signal Positions	0
Number of Rows	2

Electrical Characteristics

Operating Voltage	600 VAC
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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

Termination Features

Termination Post & Tail Length	3.5 mm[.138 in]
Termination Method to PCB	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	White
Housing Material	Polyamide

Dimensions

Compatible Insulation Diameter (Max)	2.39 mm[2.39 in]
Connector Height	9.8 mm[.386 in]
PCB Thickness (Recommended)	.06 mm[1.6 in]
Product Width	13 mm[.512 in]
Product Length	13.8 mm[.543 in]
Compatible Insulation Diameter Range	1.2 – 3.1 mm[.047 – .122 in]
Row-to-Row Spacing	5.5 mm[.216 in]

Usage Conditions

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



Circuit Application	Power
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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

Packaging Quantity	280
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 2024 (241) Candidate List Declared Against: JUNE 2024 (241) 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 # 1586861-6 6P PM PLUG VAL-U-LOK PM GW	TE Part # 1586862-6 6P FH PLUG VAL-U-LOK FH GW	TE Part # 2296206-6 6P FH PLUG VAL-U-LOK FH GW	TE Part # 2296207-6 6P PM PLUG VAL-U-LOK PM GWT/V0

Customers Also Bought

TE Part #282104-1 AMP SUPERSEAL 1.5 SERIES 2P CA	TE Part #5413515-2 JACK, DECOUPLER, RTANG, BNC PCB	TE Part #6116522-2 INV MJ, 1X2, PNL GRD, SHLD	TE Part #282109-1 MINI MIC TAB CONTACT

TE Part #20011957-00 TSYS03 TEMP SENSOR TDFN8 2.5X2.5MM I2C	TE Part #354308-E DRCBTB 1,27 50 M BTB22 20,2 137 * 094 TR	TE Part #NB-PTCO-159 Pt100, 2.0x2.3, Class C, PTFC101C1A0	TE Part #1813344-1 7p 1.5mm socket housing assy' coding A

Documents

Product Drawings
6P VAL-U-LOK R/A HDR GW
English

CAD Files
3D PDF
3D
Customer View Model
ENG_CVM_CVM_1586863-6_GN.2d_dxf.zip
English
Customer View Model
ENG_CVM_CVM_1586863-6_GN.3d_igs.zip



English

Customer View Model

[ENG_CVM_CVM_1586863-6_GN.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

Instruction Sheets

[Instruction Sheet \(U.S.\)](#)

English

Agency Approvals

[UL Report](#)

English