

1586863-6

✓ ACTIVE

VAL-U-LOK

TE Internal #: 1586863-6

Rectangular Power Connectors, Header, Plug, Wire-to-Board, 6

Position, 4.2 mm [.165 in] Centerline, Printed Circuit Board, UL 94V-2

[View on TE.com >](#)

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 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	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

Identification Marking

Circuit Identification Feature

With

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 2023 (235)

Candidate List Declared Against: JUNE 2023 (235)

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

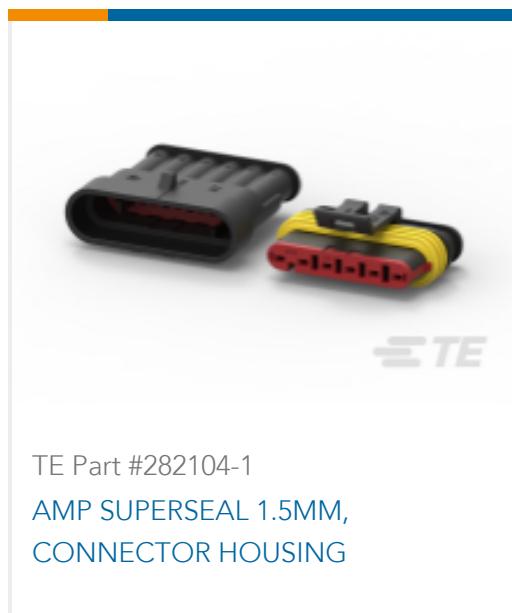


TE Part # 2296206-6
6P FH PLUG VAL-U-LOK FH GW



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

Customers Also Bought



TE Part #282104-1
AMP SUPERSEAL 1.5MM,
CONNECTOR HOUSING



TE Part #2-111196-9
026 RCPT SYSTEM 50 30 DPLX



TE Part #2132415-4
EP2.5 Shrouded HDR ASSY 4P VERT w/
o boss



TE Part #281934-2
SINGLE WIRE SEAL



TE Part #20011957-00
TSYS03 TEMP SENSOR TDFN8 2.5X2.
5MM I2C



TE Part #NB-PTCO-159
Pt100, 2.0x2.3, Class C, PTFC101C1A0

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