



VAL-U-LOK

TE Internal #: 1586585-8

Standard Rectangular Connectors, Connector Assembly, Plug, Mating Alignment, Keyed Mating Alignment Type, Mating Retention

[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 Type	Header
Glow Wire Rating	Standard Part - Not Glow Wire
Header Type	Shrouded
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

Number of Signal Positions	8
PCB Mount Orientation	Vertical
Number of Positions	8
Number of Rows	2



Electrical Characteristics

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

Contact Features

Contact Transmits (Typical)	Signal (Data)
Tail Plating Material	Brass Alloy
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 Method to Printed Circuit Board	Through Hole - Solder
---	-----------------------

Mechanical Attachment

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

Housing Features

Housing Material	Nylon
Housing Color	Natural
Centerline (Pitch)	4.19 mm[.165 in]

Dimensions

Insulation Diameter (Max)	2.39 mm
PCB Thickness (Recommended)	1.78 mm[.07 in]
Height	14.1 mm[.555 in]
Length	23.4 mm[.921 in]
Width	15.01 mm[.59 in]



Tail Length	3.5 mm[.138 in]
Accepts Wire Insulation Diameter Range	1.2 – 3.1 mm[.047 – .122 in]
Wire Size	.12 – 1.4 mm ²
Row-to-Row Spacing	4.2 mm[.165 in]

Usage Conditions

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

Operation/Application

Halogen Free	Yes
Shielded	No
Circuit Application	Power

Identification Marking

Circuit Identification Feature	With
--------------------------------	------

Industry Standards

Agency/Standard	CSA, UL
UL Rating	Recognized
CSA File Number	208567
UL File Number	E28476
VDE Tested	No
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: JAN 2021 (211) Candidate List Declared Against: JAN 2021 (211) Does not contain REACH SVHC
Halogen Content	Low Halogen - Br, Cl, F, I < 900 ppm per



homogenous material. Also BFR/CFR/PVC Free

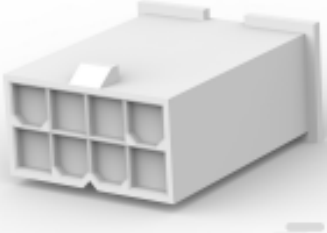
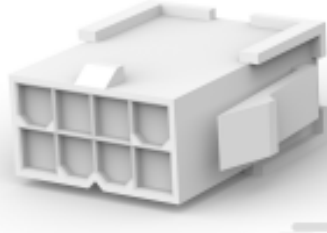
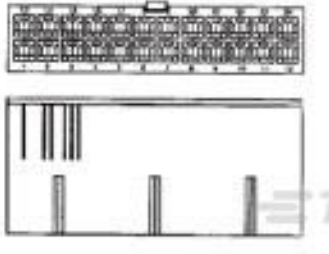
Solder Process Capability

Wave solder capable to 265°C

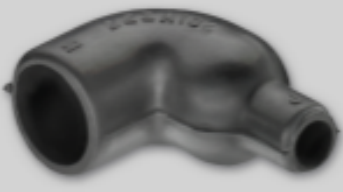
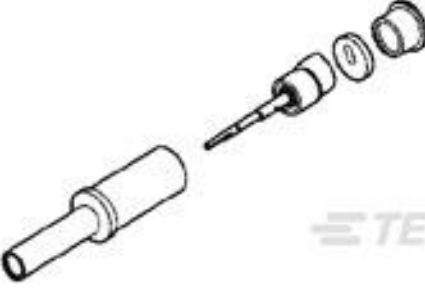
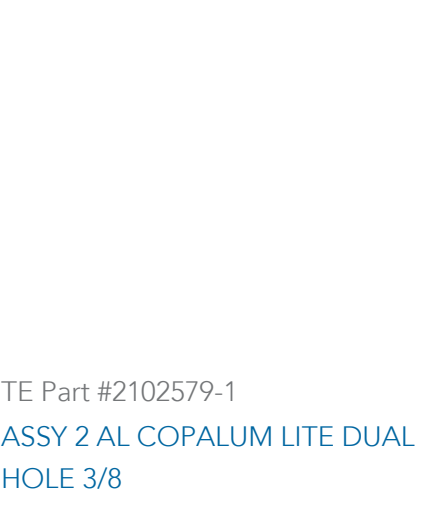
Product Compliance Disclaimer

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 # 794954-8 8P RCPT VAL-U-LOK V2	 TE Part # 1969598-8 8P FH PLUG VAL-U-LOK V2	 TE Part # 1969599-8 8P PM PLUG VAL-U-LOK V2	 TE Part # 2029027-8 8P PLUG VAL-U-LOK FH V2 BLK
--	--	--	--

Customers Also Bought

 TE Part #EF9981-000 Bulbous Heat Shrink Boots: Lipped, Right Angle	 TE Part #1757624-1 SZ 8 COAX PIN, RG142, HEX CRIMP	 TE Part #204502-4 RECEPT ASSY, 26 POSN, AMPLIMITE	 TE Part #205162-6 AMPLIMITE, ASY, PLUG, 109, 1
 TE Part #YACT26MA98SEV00100 Straight Plug D38999, A98 Insert	 TE Part #YACT26MG35SCV00100 Straight Plug D38999, G35 Insert	 TE Part #2102579-1 ASSY 2 AL COPALUM LITE DUAL HOLE 3/8	 TE Part #YACT24MA98SNV00100 JAM NUT RECEPTACLE



TE Part #F78598-000
B-155-1504



TE Part #ZPF000000000163975
DMC-M 99-04 CN (=33537-PC000)

Documents

Product Drawings

8P VAL-U-LOK BMI VRT HDR V2

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_1586585-8_A1.3d_igs.zip

English

Customer View Model

ENG_CVM_1586585-8_A1.3d_stp.zip

English

Customer View Model

ENG_CVM_1586585-8_A1.2d_dxf.zip

English

3D PDF

English

Customer View Model

ENG_CVM_CVM_1586585-8_A.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1586585-8_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1586585-8_A.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