



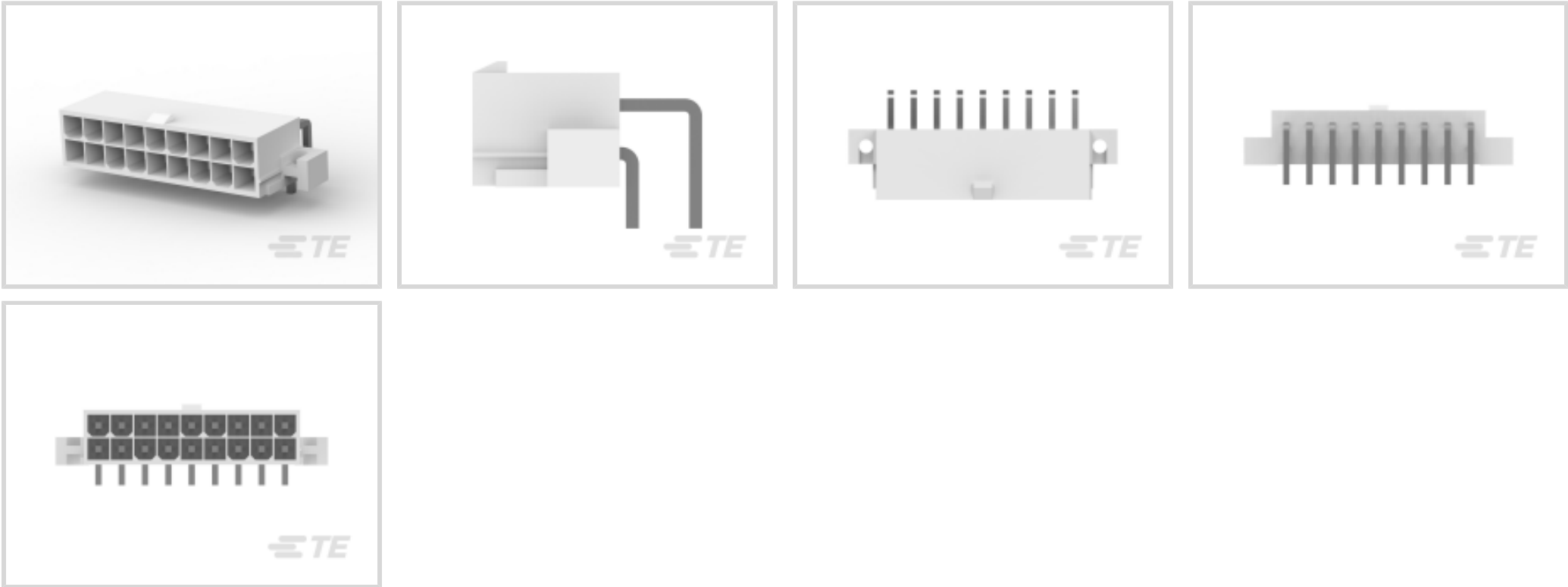
VAL-U-LOK

TE Internal #: 1-1586044-8

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

PCB Mount Orientation	Right Angle
Number of Positions	18
Number of Rows	2

Electrical Characteristics

Operating Voltage	600 VAC
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Contact Features

Contact Transmits (Typical)	Signal (Data)
Contact Layout	Inline
Contact Type	Pin
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material	Tin
Contact Retention Within Housing	Without
Contact Current Rating (Max)	9 A

Termination Features

Termination Method to Printed Circuit Board	Through Hole - Solder
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Mechanical Attachment

PCB Mount Alignment	Without
Mating Alignment	With
Mating Alignment Type	Keyed
Mating Retention	With
Mating Retention Type	Latch
PCB Mount Retention	With
PCB Mount Retention Type	Mounting Hole
Connector Mounting Type	Board Mount

Housing Features

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

Dimensions

PCB Thickness (Recommended)	1.6 mm[.063 in]
Height	9.8 mm[.386 in]
Length	39 mm[1.535 in]
Width	13 mm[.512 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]
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Operation/Application

Shielded	No
Circuit Application	Power

Identification Marking

Circuit Identification Feature	With
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Industry Standards

Agency/Standard	CSA, UL
UL Rating	Recognized
CSA File Number	208567
UL File Number	E28476
CSA Rating	208567
UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Method	Box & Tray, Tray
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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 2022 (224) Candidate List Declared Against: JUNE 2022 (224) 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 # 1-1586019-8
18P RCPT VAL-U-LOK V0



TE Part # 1-1969612-8
18P FH PLUG VAL-U-LOK V0



TE Part # 1-1969613-8
18P PM PLUG VAL-U-LOK V0

Documents

Product Drawings
18P VAL-U-LOK R/A HDR SCRMT V0

English

CAD Files
3D PDF

3D

Customer View Model
ENG_CVM_CVM_1-1586044-8_A_c-1-1586044-8-a.2d_dxf.zip

English

Customer View Model
ENG_CVM_CVM_1-1586044-8_A_c-1-1586044-8-a.3d_igs.zip

English

Customer View Model
ENG_CVM_CVM_1-1586044-8_A_c-1-1586044-8-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