



VAL-U-LOK

TE Internal #: 2-2029265-2

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

Glow Wire Rating	Glow Wire
Connector Type	Header
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

PCB Mount Orientation	Vertical
Number of Positions	22
Number of Rows	2

Electrical Characteristics



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

Contact Features

Contact Layout	Inline
Contact Transmits (Typical)	Signal (Data)
Contact Type	Pin
Multiple Contact Types	With
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 Color	Natural
Centerline (Pitch)	4.2 mm[.165 in]

Dimensions

Width	9.75 mm[.384 in]
PCB Thickness (Recommended)	1.78 mm[.7 in]
Tail Length	3.5 mm[.138 in]
Height	12.8 mm[.504 in]
Length	47.4 mm[1.866 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

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
UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Method	Box & Tray, Tray
------------------	------------------

Product Compliance

[For compliance documentation, visit the product page on TE.com>](#)

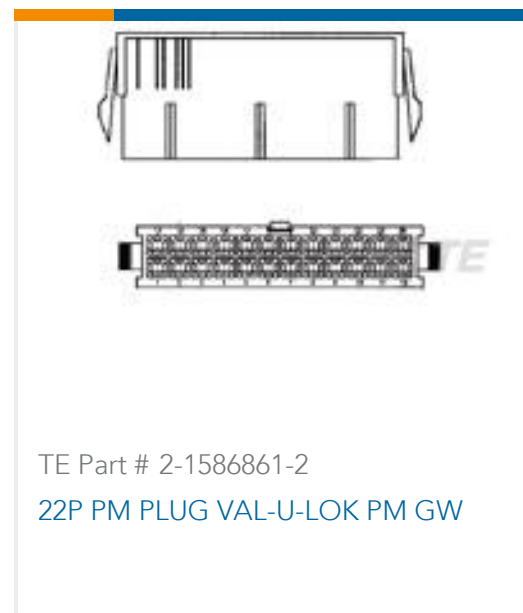
EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JAN 2021 (211) Candidate List Declared Against: JUL 2017 (174) SVHC > Threshold: Not Yet Reviewed
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

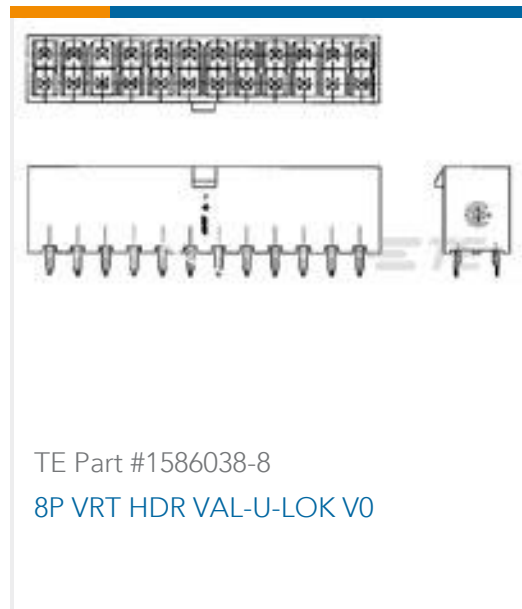
EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical 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 Regulations, TE's information on SVHC in articles for this part number is still based on the European Chemical Agency (ECHA) 'Guidance on requirements for substances in articles' (Version: 2, April 2011), applying the 0.1% weight on weight concentration threshold at the finished product level. TE is aware of the European Court of Justice ruling of September 10th, 2015 also known as O5A (Once An Article Always An Article) stating that, in case of 'complex object', the threshold for a SVHC must be applied to both the product as a whole and simultaneously to each of the articles forming part of its composition. TE has evaluated this ruling based on the new ECHA "Guidance on requirements for substances in articles" (June 2017, version 4.0) and will be updating its statements accordingly.

Compatible Parts



Customers Also Bought





Documents

Product Drawings

[22P VAL-U-LOK VRTHDR W/PGS GW](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_2-2029265-2_D_c-2-2029265-2-d.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2-2029265-2_D_c-2-2029265-2-d.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2-2029265-2_D_c-2-2029265-2-d.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

Agency Approvals

[UL Report](#)

English