

1586037-8 ✓ ACTIVE



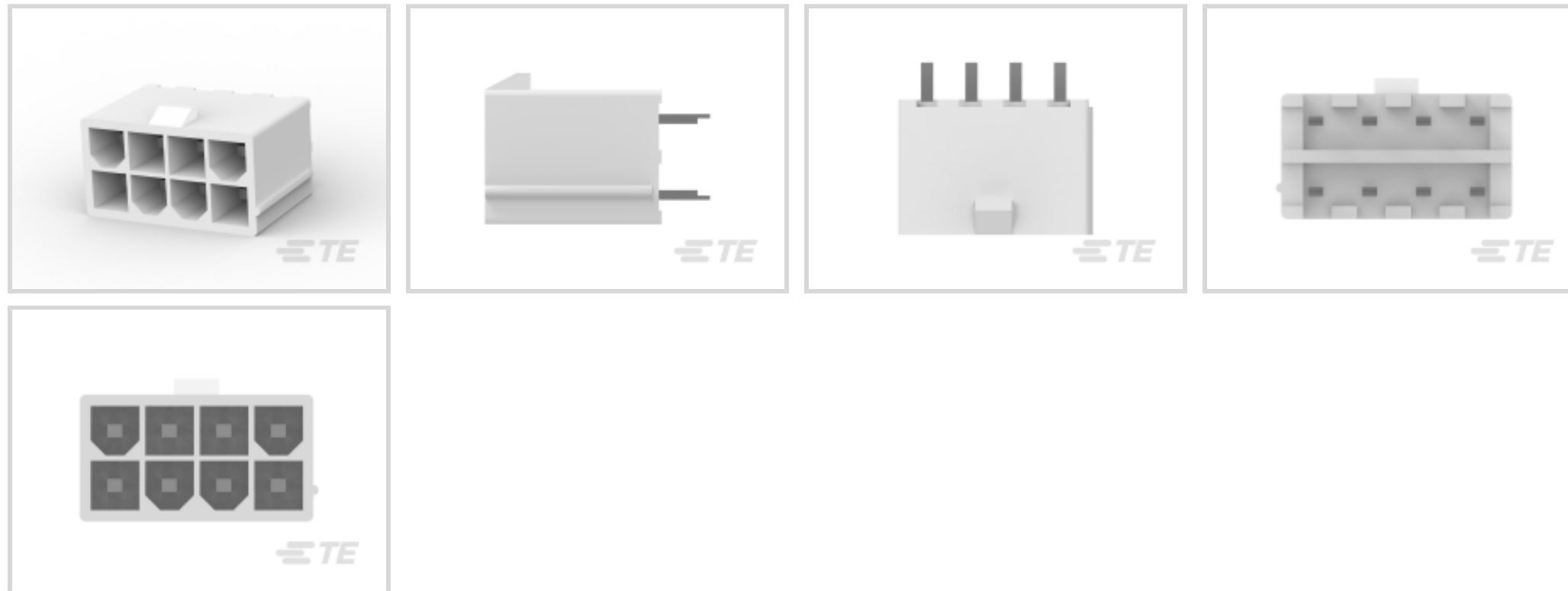
## VAL-U-LOK

TE Internal #: 1586037-8

Rectangular Power Connectors, Header, Plug, Wire-to-Board, 8 Position, .165 in [4.2 mm] 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: **8**

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

#### Electrical Characteristics

Operating Voltage	600 VAC
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#### Contact Features

Contact Layout	Inline, Matrix
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Contact Current Rating (Max)	9 A
Contact Retention Within Housing	Without
Contact Type	Pin
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material	Tin
Contact Mating Area Plating Material Thickness	2.03 – 5.08 $\mu\text{m}$ [80 – 200 $\mu\text{in}$ ]

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

### Housing Features

Centerline (Pitch)	4.2 mm[.165 in]
Housing Color	Natural
Housing Material	Nylon

### Dimensions

Insulation Diameter (Max)	2.39 mm[2.39 in]
Row-to-Row Spacing	4.2 mm[.165 in]
PCB Thickness (Recommended)	.06 mm[1.6 in]
Width	9.75 mm[.384 in]
Accepts Wire Insulation Diameter Range	1.2 – 3.1 mm[.047 – .122 in]
Height	12.8 mm[.504 in]
Length	18 mm[.709 in]

### Usage Conditions

Operating Temperature Range	-40 – 105 $^{\circ}\text{C}$ [-40 – 221 $^{\circ}\text{F}$ ]
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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

UL Flammability Rating	UL 94V-2
Glow Wire Rating	Standard Part - Not Glow Wire
Agency/Standard Number	E28476
Agency/Standard	CSA, UL
UL Rating	Recognized
CSA File Number	208567
VDE Tested	No

### Packaging Features

Packaging Method	Box & Tray, Tray
Packaging Quantity	315

### 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	Out of Scope
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: JAN 2021 (211) 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 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>

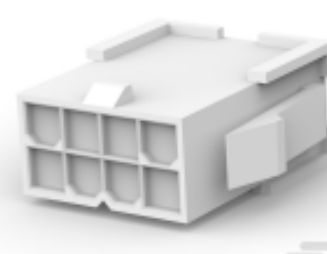
## Compatible Parts



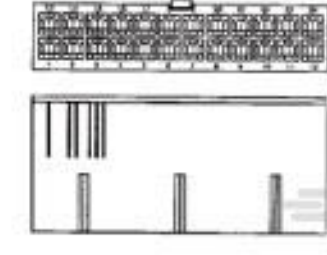
TE Part # 794954-8  
8P RCPT VAL-U-LOK V2



TE Part # 1969598-8  
8P FH PLUG VAL-U-LOK V2



TE Part # 1969599-8  
8P PM PLUG VAL-U-LOK V2

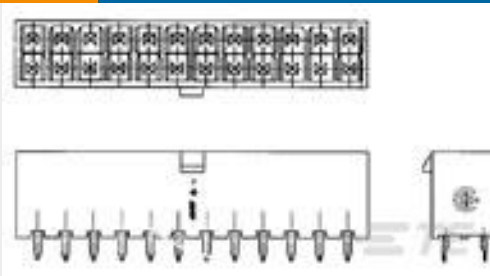


TE Part # 2029027-8  
8P PLUG VAL-U-LOK FH V2 BLK

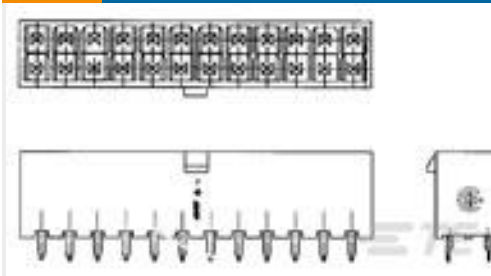
## Customers Also Bought



TE Part #1721081-7  
PCJ-124D3M,301



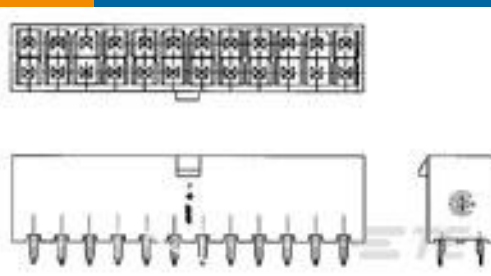
TE Part #1-1586037-2  
12P VERT HDR VAL-U-LOK V2



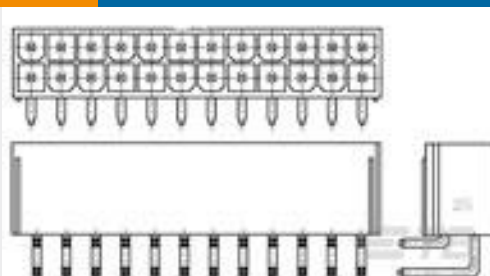
TE Part #1586037-2  
2P VERT HDR VAL-U-LOK V2



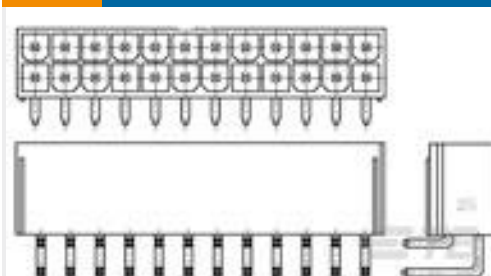
TE Part #1-829315-0  
2X10P MOD2 STIFTLI



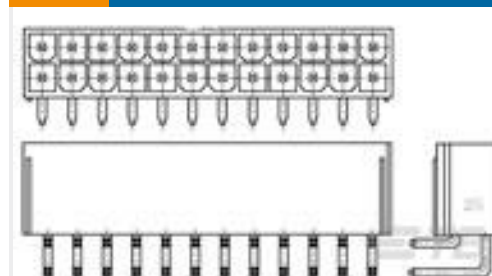
TE Part #1-1586037-8  
18P VERT HDR VAL-U-LOK V2



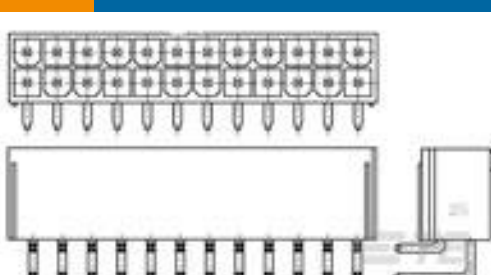
TE Part #1-1586041-2  
12P VAL-U-LOK R/A HDR V2



TE Part #1-1586041-4  
14P VAL-U-LOK R/A HDR V2



TE Part #1-1586041-8  
18P VAL-U-LOK R/A HDR V2



TE Part #1586041-4  
4P VAL-U-LOK R/A HDR V2

## Documents

[Product Drawings](#)  
8P VERT HDR VAL-U-LOK V2



English

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**CAD Files**

**3D PDF**

English

**Customer View Model**

[ENG\\_CVM\\_1586037-8\\_B.3d\\_igs.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_1586037-8\\_B.3d\\_stp.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_1586037-8\\_B.2d\\_dxf.zip](#)

English

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**Datasheets & Catalog Pages**

[SOFT\\_SHELL\\_PIN\\_AND\\_SOCKET\\_CONNECTORS\\_CATALOG](#)

English

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**Product Specifications**

[Application Specification](#)

English

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**Product Environmental Compliance**

[MD\\_1586037-8\\_01272017759\\_dmtec](#)

English

[MD\\_1586037-8\\_01272017759\\_dmtec](#)

English

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**Agency Approvals**

[UL Report](#)

English