

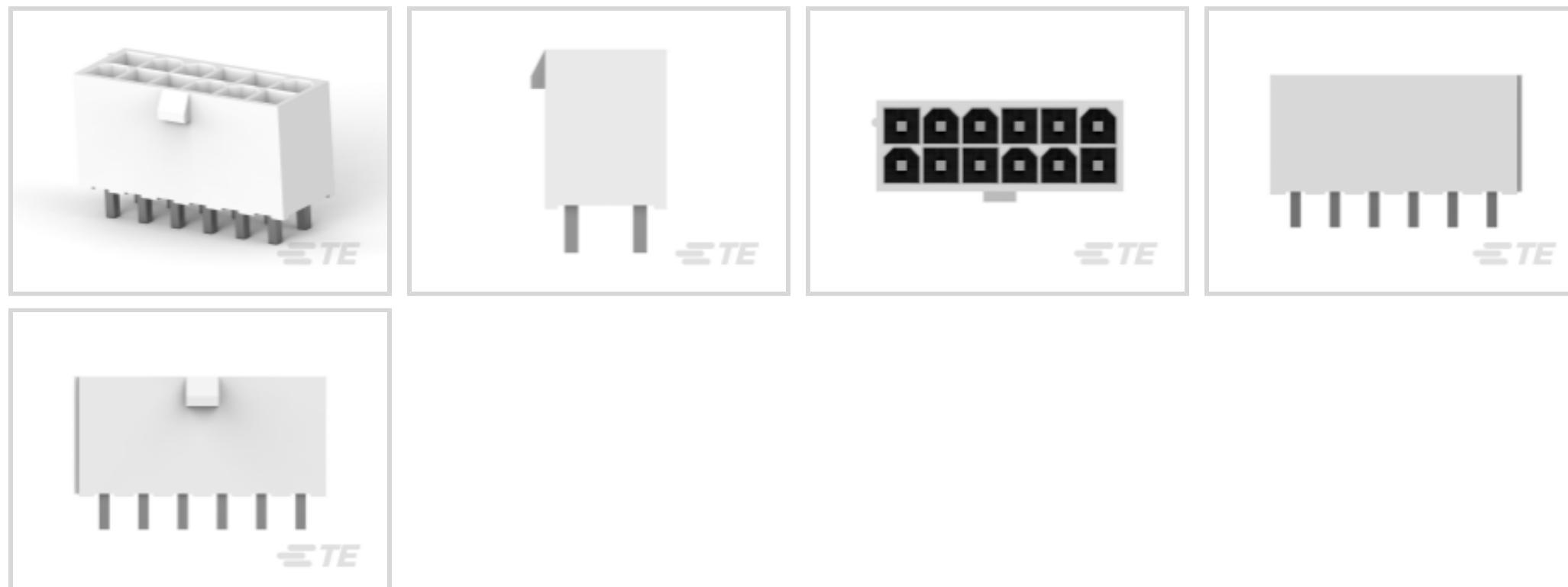
TE Internal #: 1-2825260-2

Rectangular Power Connectors, Header, Plug, Wire-to-Board, 12

Position, 4.2 mm [.165 in] Centerline, Printed Circuit Board, UL 94V-0

[View on TE.com >](#)

Connectors &gt; Power Connectors &gt; Rectangular Power &gt; Rectangular Power Connectors

Rectangular Power Connector Type: **Header**Connector & Housing Type: **Plug**Connector System: **Wire-to-Board**Number of Positions: **12**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	12
PCB Mount Orientation	Vertical
Number of Power Positions	0
Number of Signal Positions	12
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 Mating Area Plating Material	Tin
Contact Base Material	Brass Alloy
Contact Current Rating (Max)	13 A
Contact Retention Within Housing	With
Contact Type	Pin
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material Thickness	2.03 $\mu$ m[80 $\mu$ 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 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	Natural
Housing Material	Nylon

#### Dimensions

Compatible Insulation Diameter (Max)	2.39 mm
Connector Height	12.8 mm[.504 in]
PCB Thickness (Recommended)	1.6 mm[.063 in]
Product Width	9.75 mm[.384 in]
Product Length	26.4 mm[1.039 in]
Compatible Insulation Diameter Range	1.2 – 3.1 mm[.047 – .122 in]
Wire Size	.12 – 1.4 mm <sup>2</sup>
Row-to-Row Spacing	4.2 mm[.165 in]

#### Usage Conditions

## Operating Temperature Range

-40 – 105 °C [-40 – 221 °F]

## Operation/Application

## Circuit Application

Signal

## Identification Marking

## Circuit Identification Feature

With

## Industry Standards

## CSA Rating

208567

## UL Rating

Recognized

## Agency/Standard

CSA, UL

## Approved Standards

UL E28476

## UL Flammability Rating

UL 94V-0

## Glow Wire Rating

Standard Part - Not Glow Wire

## Packaging Features

## Packaging Quantity

225

## Packaging Method

Box &amp; Tray, Tray

## Product Compliance

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

## EU RoHS Directive 2011/65/EU

Compliant

## EU ELV Directive 2000/53/EC

Not Yet Reviewed

## 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  
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

Not reviewed for solder process capability

## 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 # 2825272-4  
4P VERT HDR VAL-U-LOK HCS GW

## Customers Also Bought



TE Part #5172070-3  
Standard Drawer Receptacle Housings



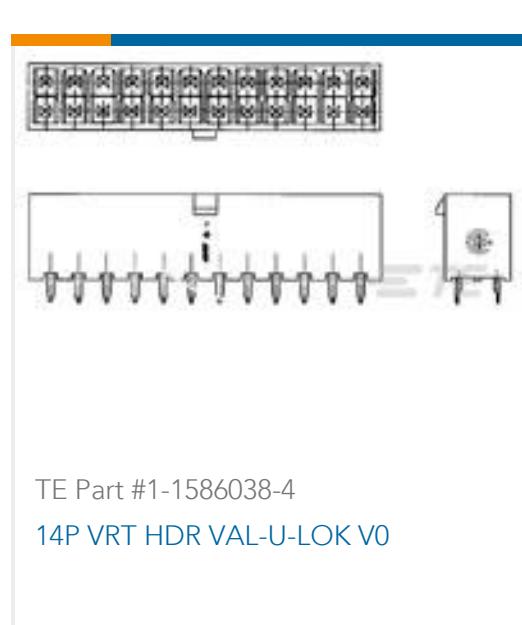
TE Part #170485-1  
DRAWER CONN LP



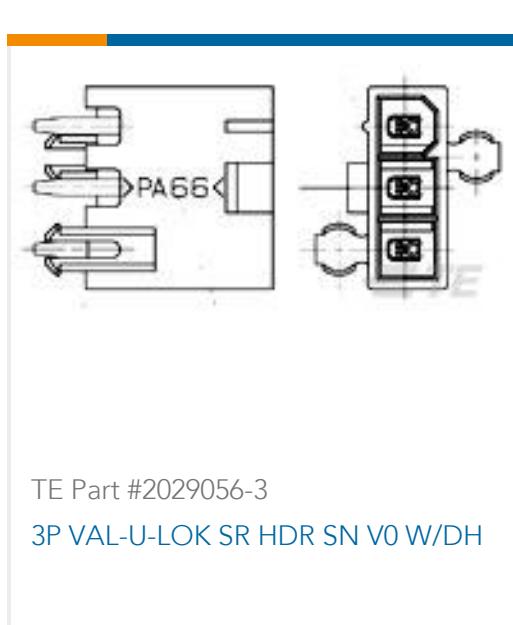
TE Part #170311-1  
CONTACT FOR DRAWER CONN



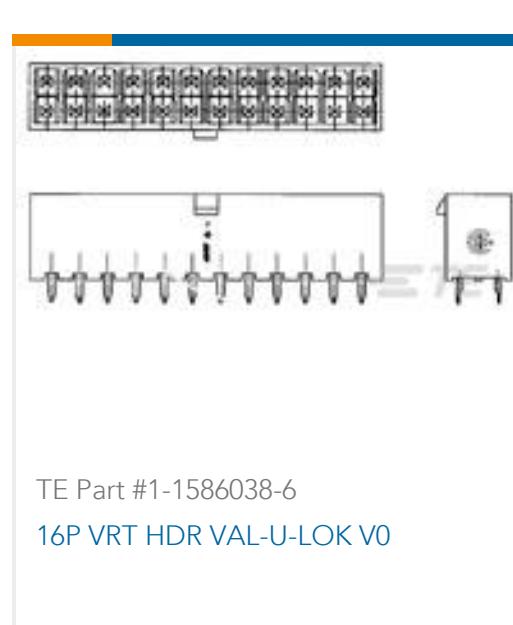
TE Part #170484-1  
CONTACT FOR DRAWER CONNECTOR



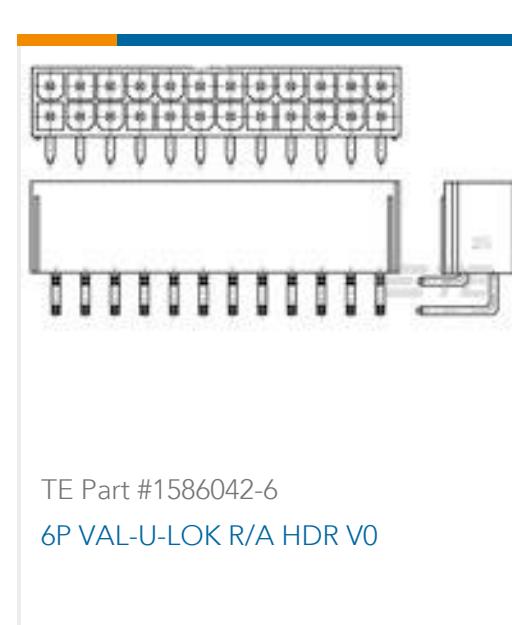
TE Part #1-1586038-4  
14P VRT HDR VAL-U-LOK V0



TE Part #2029056-3  
3P VAL-U-LOK SR HDR SN V0 W/DH



TE Part #1-1586038-6  
16P VRT HDR VAL-U-LOK V0



TE Part #1586042-6  
6P VAL-U-LOK R/A HDR V0

## Documents

### Product Drawings

[12P VRT HDR VAL-U-LOK HCS V0](#)

English

### CAD Files

[3D PDF](#)

3D

[Customer View Model](#)

[ENG\\_CVM\\_CVM\\_1-2825260-2\\_A.2d\\_dxf.zip](#)

English

[Customer View Model](#)

[ENG\\_CVM\\_CVM\\_1-2825260-2\\_A.3d\\_igs.zip](#)

English

[Customer View Model](#)

[ENG\\_CVM\\_CVM\\_1-2825260-2\\_A.3d\\_stp.zip](#)

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

### Agency Approvals

UL

English