



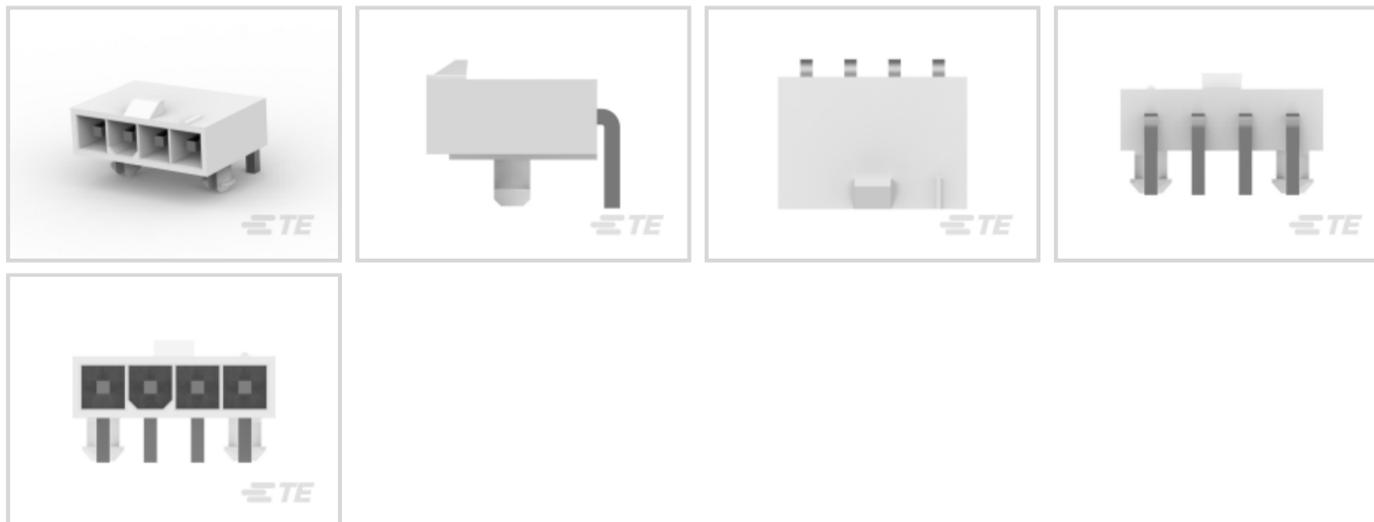
VAL-U-LOK

TE Internal #: 2029150-4

Header, Plug, Wire-to-Board, 4 Position, 4.2 mm [.165 in]
Centerline, Printed Circuit Board, UL 94V-2, Rectangular Power
Connectors

[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: **4**

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	4
PCB Mount Orientation	Right Angle
Number of Power Positions	4
Number of Signal Positions	0
Number of Rows	1

Electrical Characteristics

Operating Voltage	600 VAC
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Contact Features



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

Termination Features

Termination Post & Tail Length	3.5 mm [.138 in]
Termination Method to PCB	Through Hole - Solder

Mechanical Attachment

Mating Alignment Type	Keyed
Mating Retention	With
Mating Alignment	With
PCB Mount Alignment	With
PCB Mount Retention	With
PCB Mount Retention Type	Boardlock
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 [2.39 in]
Connector Height	5.4 mm [.213 in]
PCB Thickness (Recommended)	.07 mm [1.78 in]
Product Width	12.45 mm [.49 in]
Product Length	18 mm [.709 in]
Compatible Insulation Diameter Range	1.2 – 3.1 mm [.047 – .122 in]

Usage Conditions

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

CSA Rating	208567
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UL Rating	Recognized
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Compatible With Agency/Standards Products	CSA, UL
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Compatible With Approved Standards Products	UL E28476
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UL Flammability Rating	UL 94V-2
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Glow Wire Rating	Standard Part - Not Glow Wire
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Packaging Features

Packaging Quantity	500
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Packaging Method	Bag, Box & Tray
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Product Compliance

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

EU RoHS Directive 2011/65/EU	Compliant
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EU ELV Directive 2000/53/EC	Compliant
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China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
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EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2024 (241) Candidate List Declared Against: JUNE 2024 (241) Does not contain REACH SVHC
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Halogen Content	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
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Solder Process Capability	Wave solder capable to 240°C
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Product Compliance Disclaimer

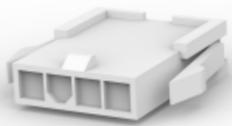
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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

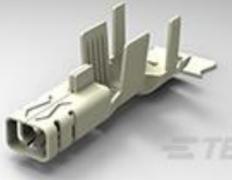


TE Part # 1586024-4
4P S/R FH PLUG VAL-U-LOK V2

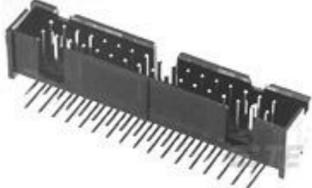


TE Part # 1586022-4
4P S/R PM PLUG VAL-U-LOK V2

Customers Also Bought



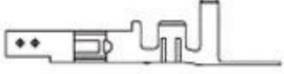
TE Part #1971785-2
PTL RECEPTACLE CONTACT, 20 - 24 AWG



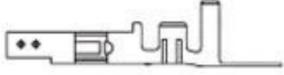
TE Part #5103311-5
A/L LOW PRO HDR 20P RA BLACK



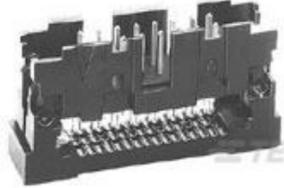
TE Part #321889
SOLIS R HT 22-16COMM22-18MIL 6



TE Part #1586055-1
VAL-U-LOK SKT BR SN 16AWG



TE Part #794956-3
VAL-U-LOK SKT PHBZ SN 22-18AWG



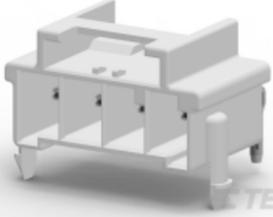
TE Part #1-111446-8
020 UNIV I/O 30DP NO EARS



TE Part #1586026-4
4P SR RCPT VAL-U-LOK V2



TE Part #9-2176092-0
RP 2A 0.25W 6K98 0.1% 25PPM 1K RL



TE Part #1-1969694-4
PTL 1X4 PCB HEADER R/A HITEMP KEY A LGR

Documents

Product Drawings

4P R/A HDR VAL-U-LOK V2 W/P

English



CAD Files

3D PDF

3D

Customer View Model

[ENG_CVM_CVM_2029150-4_A_c-2029150-4-a.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2029150-4_A_c-2029150-4-a.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2029150-4_A_c-2029150-4-a.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_SINGLE_ROW_HEADERS](#)

English

Product Specifications

[Application Specification](#)

English

Instruction Sheets

[Instruction Sheet \(U.S.\)](#)

English