

2-1586038-0 ✓ ACTIVE

VAL-U-LOK

TE Internal #: 2-1586038-0

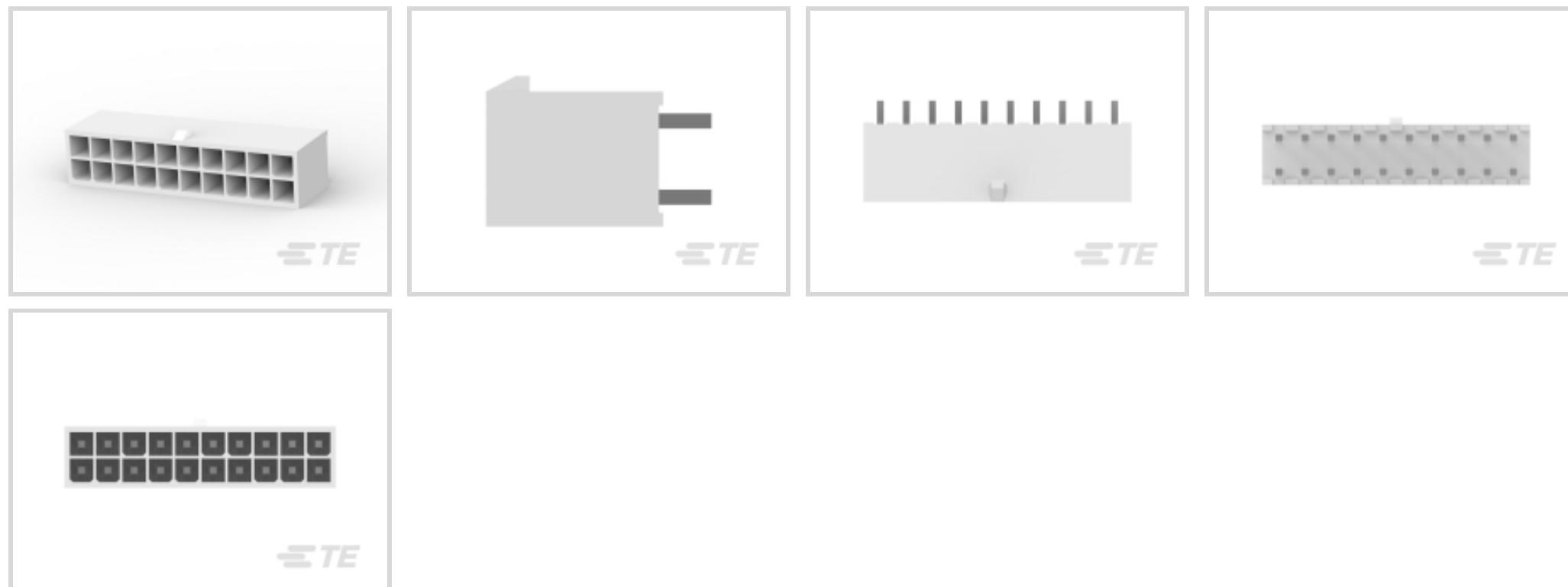
Rectangular Power Connectors, Header, Plug, Wire-to-Board, 20

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

[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: **20**

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	20
PCB Mount Orientation	Vertical
Number of Power Positions	20
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 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 Thickness	2.03 µm[80 µin]

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[.093 in]
Connector Height	12.8 mm[.504 in]
PCB Thickness (Recommended)	.06 mm[.002 in]
Product Width	9.75 mm[.384 in]
Product Length	43.2 mm[1.7 in]
Compatible Insulation Diameter Range	1.2 – 3.1 mm[.047 – .122 in]
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

Circuit Application

Power

Identification Marking

Circuit Identification Feature

With

Industry Standards

UL Rating

Recognized

Agency/Standard

UL

Approved Standards

UL E28476

UL Flammability Rating

UL 94V-0

Glow Wire Rating

Standard Part - Not Glow Wire

Packaging Features

Packaging Quantity

135

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: JUNE 2023
(235)Candidate List Declared Against: JAN 2021
(211)

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

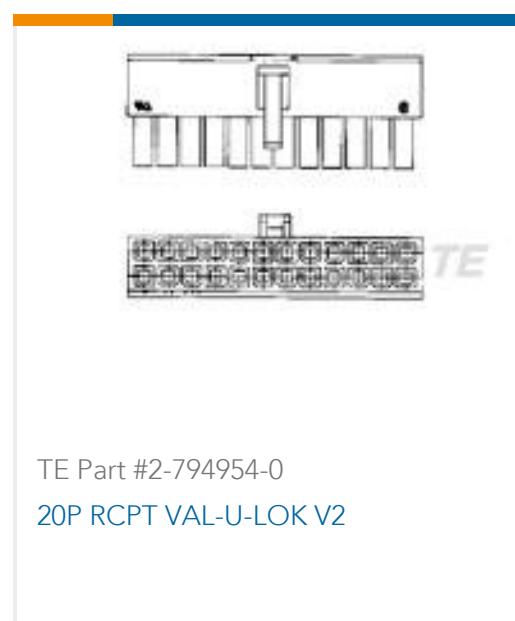


TE Part # 2-1586019-0
20P RCPT VAL-U-LOK V0

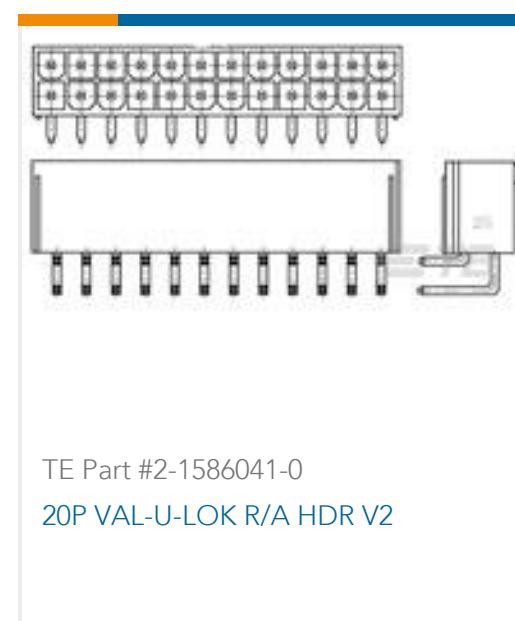
Customers Also Bought



TE Part #1-440055-4
2.0MM,HDR,14POS,R/A



TE Part #2-794954-0
20P RCPT VAL-U-LOK V2



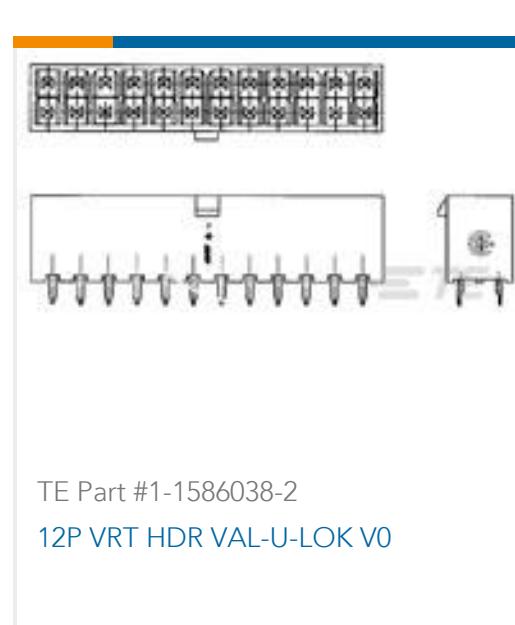
TE Part #2-1586041-0
20P VAL-U-LOK R/A HDR V2



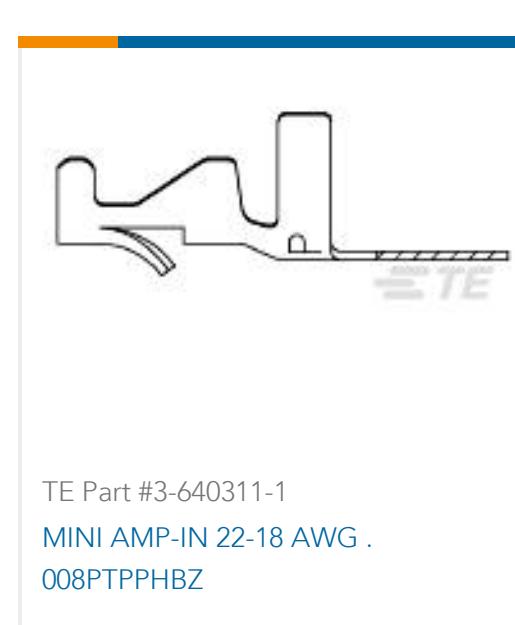
TE Part #5-87589-2
12 MODII HDR DRST SHRD .100CL



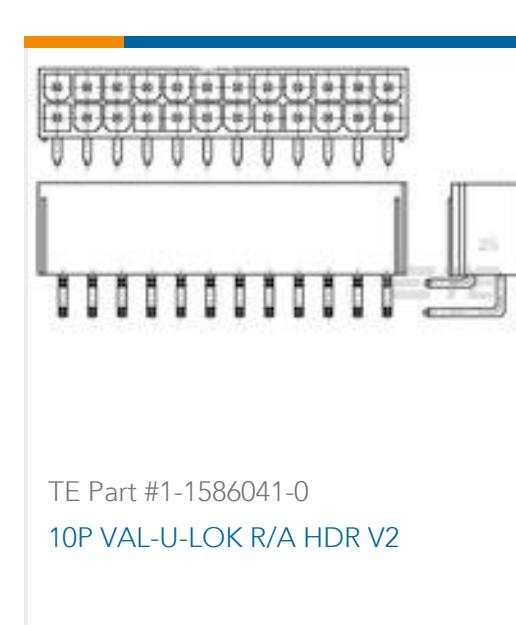
TE Part #5-103669-3
04 MTE HDR SRST LATCH W/HLDWN



TE Part #1-1586038-2
12P VRT HDR VAL-U-LOK V0



TE Part #3-640311-1
MINI AMP-IN 22-18 AWG .008PTPPHBZ



TE Part #1-1586041-0
10P VAL-U-LOK R/A HDR V2



TE Part #2-1775485-1
Battery Holder, 3.6mm, BLK,low profile



TE Part #3-1825910-5
FSM18JH=6MM TACT SWITCH, HIGH TEMP

Documents

Product Drawings

[20P VRT HDR VAL-U-LOK V0](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model[ENG_CVM_CVM_2-1586038-0_C.2d_dxf.zip](#)

English

Customer View Model[ENG_CVM_CVM_2-1586038-0_C.3d_igs.zip](#)

English

Customer View Model[ENG_CVM_CVM_2-1586038-0_C.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[Product Specification](#)

English

Agency Approvals[UL Report](#)

English