

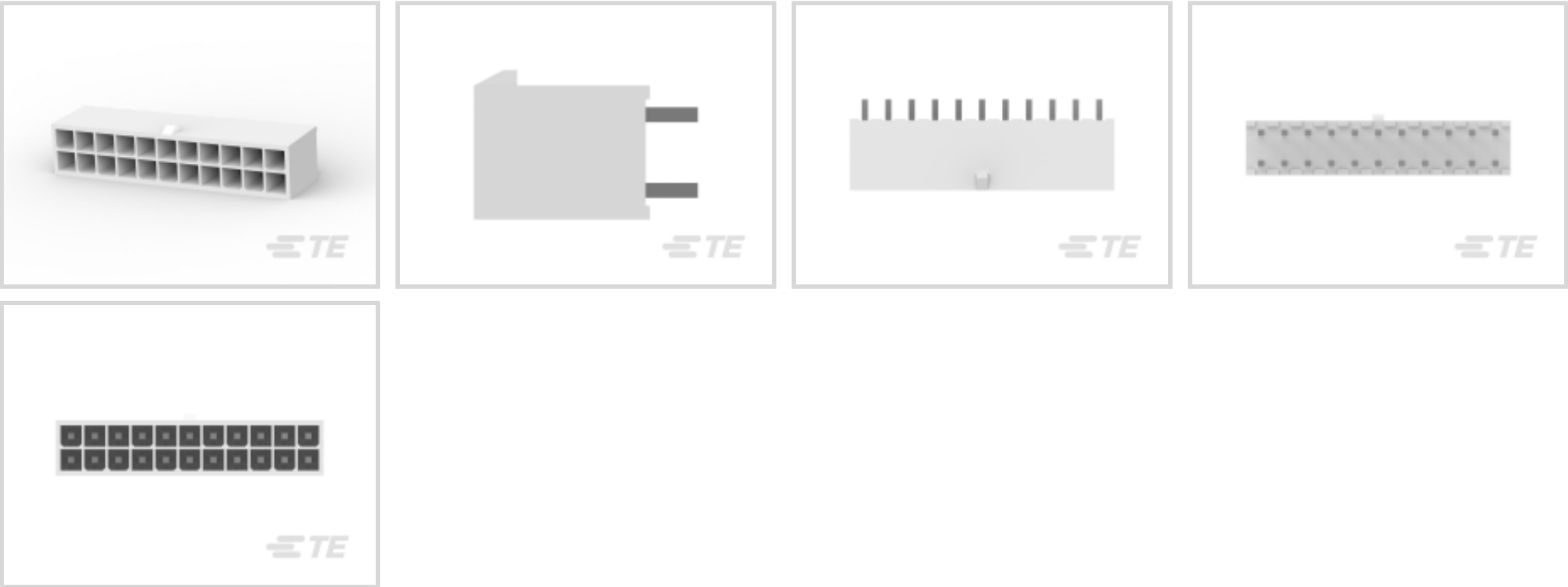


VAL-U-LOK

TE Internal #: 2-1586038-2  
Header, Plug, Wire-to-Board, 22 Position, 4.2 mm [.165 in]  
Centerline, Printed Circuit Board, UL 94V-0, Rectangular Power  
Connectors

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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: **22**  
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       | 22       |
| PCB Mount Orientation     | Vertical |
| Number of Power Positions | 22       |
| Number of Rows            | 2        |

Electrical Characteristics

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

Contact Features

|                |                |
|----------------|----------------|
| Contact Layout | Inline, Matrix |
|----------------|----------------|



|                                                |                 |
|------------------------------------------------|-----------------|
| 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 PCB      | 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[2.39 in]             |
| Connector Height                     | 12.8 mm[.504 in]             |
| PCB Thickness (Recommended)          | .06 mm[1.6 in]               |
| Product Width                        | 9.75 mm[.384 in]             |
| Product Length                       | 47.4 mm[1.866 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] |
|-----------------------------|----------------------------|

Operation/Application



|                     |       |
|---------------------|-------|
| Circuit Application | Power |
|---------------------|-------|

Identification Marking

|                                |      |
|--------------------------------|------|
| Circuit Identification Feature | With |
|--------------------------------|------|

Industry Standards

|                                             |                               |
|---------------------------------------------|-------------------------------|
| UL Rating                                   | Recognized                    |
| Compatible With Agency/Standards Products   | UL                            |
| Compatible With Approved Standards Products | UL E28476                     |
| UL Flammability Rating                      | UL 94V-0                      |
| Glow Wire Rating                            | Standard Part - Not Glow Wire |

Packaging Features

|                    |                  |
|--------------------|------------------|
| Packaging Quantity | 120              |
| 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                   | 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 2024 (241)<br>Candidate List Declared Against: JAN 2021 (211)<br>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 # 2-1586019-2  
22P RCPT VAL-U-LOK V0



TE Part # 2-1969612-2  
22P FH PLUG VAL-U-LOK V0

### Customers Also Bought



TE Part #1-1393212-0  
T92S7D12-24



TE Part #350434-1  
15P UMNL PIN HDR ASSY NATL



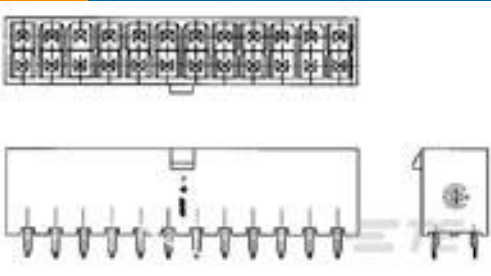
TE Part #350760-4  
03P UMNL HDR ASSY PC



TE Part #350764-4  
12P UMNL HDR ASSY PC



TE Part #31818  
SPlice, SOLIS, BUTT, 22-16 COMM  
22-18MIL



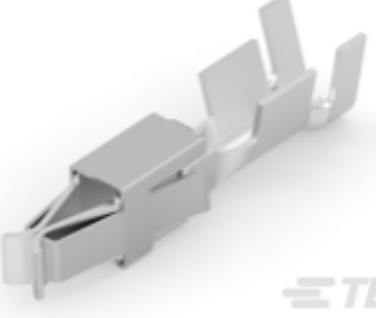
TE Part #1-1586038-4  
14P VRT HDR VAL-U-LOK V0



TE Part #DT04-6P  
REC, 6P, GRY, N



TE Part #8-328998-1  
TERMINAL,PIDG R 16-14 5/16



TE Part #927777-3  
JUNIOR POWER TIMER CONTACT



TE Part #927779-3  
JPT REC 2.8 Contact SRC Sn (LP)

### Documents

- Product Drawings
- 22P VRT HDR VAL-U-LOK V0
- English
- CAD Files
- 3D PDF



3D

Customer View Model

[ENG\\_CVM\\_CVM\\_2-1586038-2\\_C.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2-1586038-2\\_C.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2-1586038-2\\_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

[Application Specification](#)

English

Agency Approvals

[UL Report](#)

English