



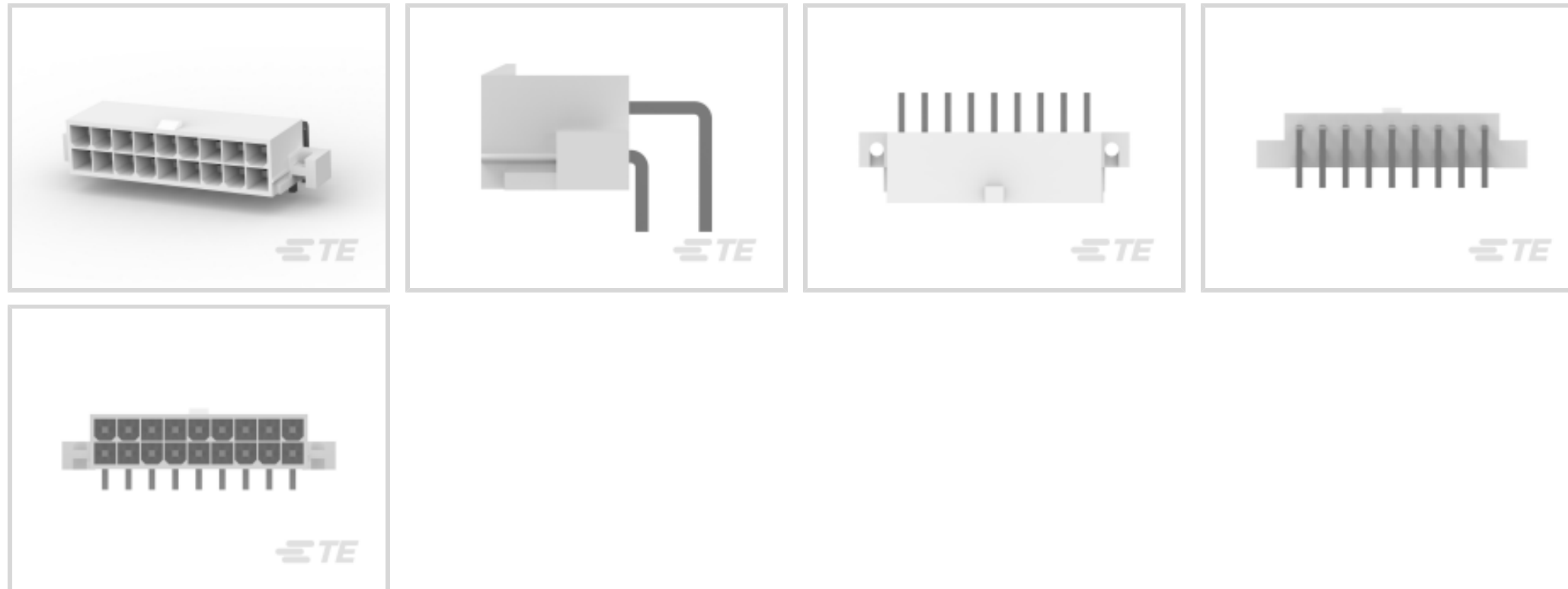
VAL-U-LOK

TE Internal #: 1-1586043-8

Standard Rectangular Connectors, Connector Assembly, Plug, Mating Alignment, Keyed Mating Alignment Type, Mating Retention, Wire-to-Board, Tin, Normal

[View on TE.com >](#)

Connectors > Rectangular Connectors > Standard Rectangular Connectors



Connector Product Type: **Connector Assembly**

Connector & Housing Type: **Plug**

Mating Alignment: **With**

Mating Alignment Type: **Keyed**

Mating Retention: **With**

Features

Product Type Features

| | |
|-----------------------------------|-----------------------|
| Connector Product Type | Connector Assembly |
| Connector & Housing Type | Plug |
| Connector System | Wire-to-Board |
| Insertion Force Type | Normal |
| Sealable | No |
| Connector & Contact Terminates To | Printed Circuit Board |

Configuration Features

| | |
|-----------------------|-------------|
| Contacts Preloaded | Yes |
| PCB Mount Orientation | Right Angle |
| Number of Positions | 18 |
| Number of Rows | 2 |

Electrical Characteristics

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

Contact Features



| | |
|---|--------|
| Contact Layout | Inline |
| Contact Type | Pin |
| PCB Contact Termination Area Plating Material | Tin |
| Contact Mating Area Plating Material | Tin |
| Contact Retention Within Housing | With |
| Contact Current Rating (Max) | 9 A |

Termination Features

| | |
|---|-----------------------|
| Termination Post & Tail Length | 3.5 mm[.138 in] |
| Termination Method to Printed Circuit Board | Through Hole - Solder |

Mechanical Attachment

| | |
|--------------------------|---------------|
| PCB Mount Alignment | Without |
| PCB Mount Retention | With |
| PCB Mount Retention Type | Mounting Hole |
| Mating Alignment | With |
| Mating Alignment Type | Keyed |
| Mating Retention | With |
| Mating Retention Type | Latch |
| Connector Mounting Type | Board Mount |

Housing Features

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

Dimensions

| | |
|--------------------------------------|------------------------------|
| Connector Height | 9.8 mm[.384 in] |
| PCB Thickness (Recommended) | 1.6 mm[.063 in] |
| Product Width | 13 mm[.512 in] |
| Product Length | 39 mm[1.535 in] |
| Row-to-Row Spacing | 4.2 mm[.165 in] |
| Compatible Insulation Diameter Range | 1.2 – 3.2 mm[.047 – .122 in] |
| Wire Size | .12 – 1.4 mm ² |

Usage Conditions

| | |
|-----------------------------|----------------------------|
| Operating Temperature Range | -40 – 105 °C[-40 – 221 °F] |
|-----------------------------|----------------------------|



Operation/Application

| | |
|---------------------|-------|
| Shielded | No |
| Circuit Application | Power |

Identification Marking

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

Industry Standards

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

Packaging Features

| | |
|--------------------|------------------|
| Packaging Quantity | 70 |
| 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: JAN 2024 (240) Candidate List Declared Against: JAN 2024 (240) 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



Customers Also Bought



Documents

Product Drawings

18P VAL-U-LOK R/A HDR SCRMT V2

English

CAD Files

Customer View Model

[ENG_CVM_CVM_1-1586043-8_A.2d_dxf.zip](#)

English

3D PDF

3D

Customer View Model

[ENG_CVM_CVM_1-1586043-8_A.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1-1586043-8_A.3d_stp.zip](#)

English

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Datasheets & Catalog Pages

[SOFT_SHELL_PIN_AND_SOCKET_CONNECTORS_CATALOG](#)

English

Product Specifications

[Application Specification](#)

English

Agency Approvals

[UL Report](#)

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