



AMP-LATCH | AMP-LATCH Universal Headers

TE Internal #: 5102156-9

Ribbon Cable Connectors, Wire-to-Board, 40 Position, 2.54 mm [.1 in] Centerline, Vertical, Through Hole - Solder, 2 Row, AMP-LATCH Universal Headers

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AMP-LATCH UNIVERSAL HEADERS



Connector System: **Wire-to-Board**

Number of Positions: **40**

Centerline (Pitch): **2.54 mm [.1 in]**

PCB Mount Retention: **Without**

PCB Mount Orientation: **Vertical**

[All AMP-LATCH UNIVERSAL HEADERS \(525\)](#)

**Features**

**Product Type Features**

|                                    |                                |
|------------------------------------|--------------------------------|
| Ribbon Cable Connector Header Type | Universal Ejection Pin Headers |
| Connector Product Type             | Connector Assembly             |
| Connector System                   | Wire-to-Board                  |
| Connector & Housing Type           | Plug                           |
| Connector & Contact Terminates To  | Printed Circuit Board          |

**Configuration Features**

|                       |          |
|-----------------------|----------|
| Number of Positions   | 40       |
| PCB Mount Orientation | Vertical |
| Number of Rows        | 2        |

**Electrical Characteristics**

|                       |         |
|-----------------------|---------|
| Insulation Resistance | 5000 MΩ |
| Operating Voltage     | 250 VAC |



### Body Features

|                       |          |
|-----------------------|----------|
| Primary Product Color | Black    |
| Connector Profile     | Standard |

### Contact Features

|   |  |
|---|--|
| Mating Square Post Dimension                            | .64 mm[.025 in]                        |
| PCB Contact Termination Area Plating Material Thickness | 2.54 $\mu$ m[100 $\mu$ in]             |
| Contact Type  | Pin                                    |
|   | 30 $\mu$ in                            |
| Contact Mating Area Plating Material                    | Gold, Gold Flash over Palladium Nickel |
| Contact Shape & Form                                    | Square                                 |
| Contact Underplating Material                           | Nickel                                 |
| PCB Contact Termination Area Plating Material           | Tin                                    |
| Contact Base Material                                   | Phosphor Bronze                        |
| Contact Current Rating (Max)                            | 1 A                                    |

### Termination Features

|   |                       |
|---|-----------------------|
| Round Termination Post & Tail Diameter      | .64 mm[.025 in]       |
| Termination Post & Tail Length              | 3.94 mm[.155 in]      |
| Termination Method to Printed Circuit Board | Through Hole - Solder |

### Mechanical Attachment

|                         |                             |
|-------------------------|-----------------------------|
| Mating Alignment        | With                        |
| PCB Mount Alignment     | Without                     |
| Panel Mount Feature     | Without                     |
| PCB Mount Retention     | Without                     |
| Mating Alignment Type   | Center, Dual Polarizing Bar |
| Mating Retention        | With                        |
| Mating Retention Type   | Ejection Latch              |
| Connector Mounting Type | Board Mount                 |

### Housing Features

|                       |                |
|-----------------------|----------------|
| Mating Entry Location | Top            |
| Housing Material      | Nylon - GF     |
| Centerline (Pitch)    | 2.54 mm[.1 in] |

### Dimensions



|                             |                  |
|-----------------------------|------------------|
| Shrouded End Dimension      | 3.81 mm[.15 in]  |
| Connector Length            | 70.1 mm[2.76 in] |
| Connector Height            | 13.94 mm[.55 in] |
| PCB Thickness (Recommended) | 3.18 mm[.125 in] |
| Row-to-Row Spacing          | 2.54 mm[.1 in]   |

### Usage Conditions

|                             |                            |
|-----------------------------|----------------------------|
| Housing Temperature Rating  | High                       |
| Operating Temperature Range | -65 – 105 °C[-85 – 221 °F] |

### Operation/Application

|                     |        |
|---------------------|--------|
| Circuit Application | Signal |
|---------------------|--------|

### Industry Standards

|                        |          |
|------------------------|----------|
| UL Flammability Rating | UL 94V-0 |
|------------------------|----------|

### Packaging Features

|                    |      |
|--------------------|------|
| Packaging Quantity | 40   |
| Packaging Method   | Tray |

### Other

|                                 |                                   |
|---------------------------------|-----------------------------------|
| Wire-to-Board Connector Comment | For Use With AMP-Latch Receptacle |
|---------------------------------|-----------------------------------|

## 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)<br>Candidate List Declared Against: JUNE 2023 (235)<br>Does not contain REACH SVHC |
| Halogen Content                               | Not Low Halogen - contains Br or Cl > 900 ppm.  |
| 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

|   |  |  |   |
|---|--|--|---|
|  <p>TE Part # 499252-1<br/>040 STRAIN RELIEF A-L RCPT</p>         |  <p>TE Part # 1-1658527-3<br/>622-4041LF FEM SOCKET, LEAD FREE</p> |  <p>TE Part # 1658622-9<br/>40 NOVO MIL/CTR 30DP, LEAD FREE</p>                |  <p>TE Part # 1658620-9<br/>40 NOVO MIL 15DP, LEAD FREE</p>         |
|  <p>TE Part # 1658621-9<br/>40 NOVO MIL/CTR 15DP, LEAD FREE</p>  |  <p>TE Part # 1658623-9<br/>40 NOVO MIL 30DP, LEAD FREE</p>       |  <p>TE Part # 2-1658526-0<br/>609-4030LF FEM SOCKET, LEAD FREE</p>            |  <p>TE Part # 2-1658526-1<br/>609-4041LF FEM SOCKET, LEAD FREE</p> |
|  <p>TE Part # 1-1658528-9<br/>636-4041LF=FEM SKT BLD POL S/R</p> |  <p>TE Part # 1658624-9<br/>40 NOVO DUAL 30DP, LEAD FREE</p>      |  <p>TE Part # CAT-AM71-A85022<br/>Female Socket Connectors: Strain Relief</p> |  <p>TE Part # 1-1658527-2<br/>622-4030LF FEM SOCKET, LEAD FREE</p> |

## Also in the Series | AMP-LATCH Universal Headers

|   |   |
|---|---|
|  <p>Ribbon Cable Connectors(525)</p> |  <p>Ribbon Connector Accessories(13)</p> |
|---|---|

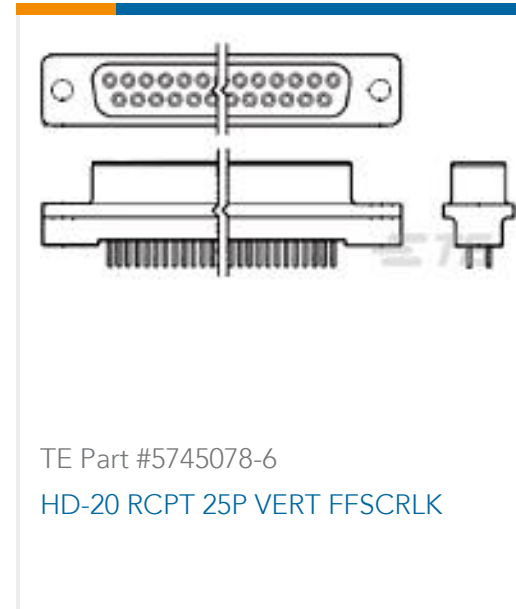
## Customers Also Bought



TE Part #5747250-4  
09 MSFL PLUG RA 318 (IN,FM)



TE Part #5745076-4  
D-Sub Receptacle Assembly: Vertical,  
Shell Size 1, 2.74mm



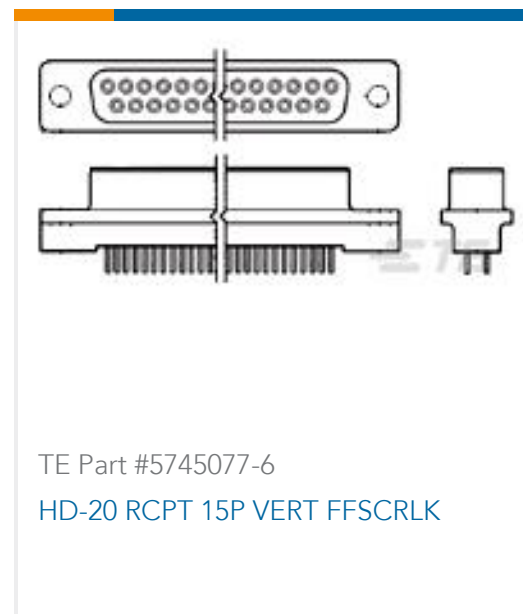
TE Part #5745078-6  
HD-20 RCPT 25P VERT FFSCRLK



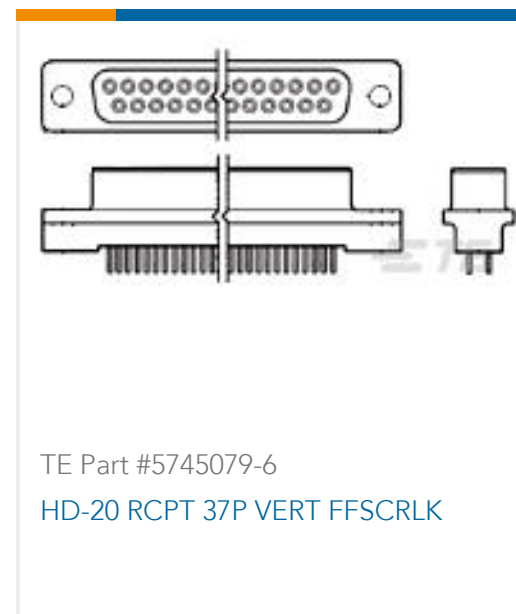
TE Part #1-5102156-0  
A/L UNIV HDR 50P VERT



TE Part #5745074-4  
HD-20 PLUG 37P VERT FFSCRLK



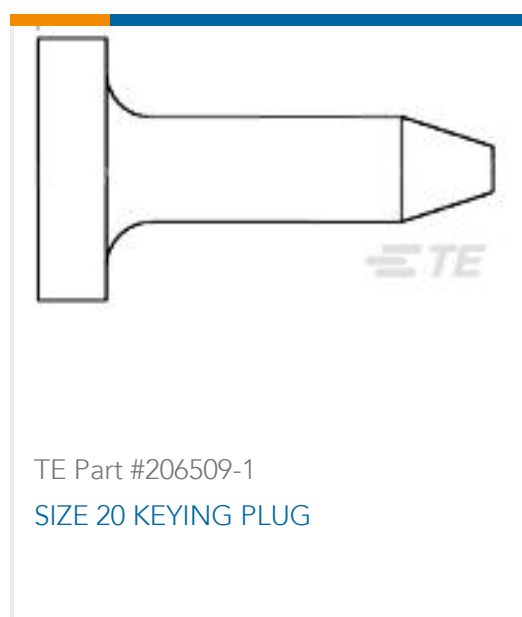
TE Part #5745077-6  
HD-20 RCPT 15P VERT FFSCRLK



TE Part #5745079-6  
HD-20 RCPT 37P VERT FFSCRLK



TE Part #1419108-7  
RT28516



TE Part #206509-1  
SIZE 20 KEYING PLUG

## Documents

### Product Drawings

[A/L UNIV HDR 40P VERT](#)

English

### CAD Files

[3D PDF](#)

3D

[Customer View Model](#)

[ENG\\_CVM\\_CVM\\_5102156-9\\_C.2d\\_dxf.zip](#)

English

[Customer View Model](#)

[ENG\\_CVM\\_CVM\\_5102156-9\\_C.3d\\_igs.zip](#)

English

[Customer View Model](#)

[ENG\\_CVM\\_CVM\\_5102156-9\\_C.3d\\_stp.zip](#)

English

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





### Datasheets & Catalog Pages

[AMPMODU\\_INTERCONNECTION\\_SYSTEM\\_SECTIONS5](#)

English

[Ribbon Cable Interconnect Solutions](#)

English

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### Product Specifications

[Product Specification](#)

English

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### Agency Approvals

[Agency Approval Document](#)

English