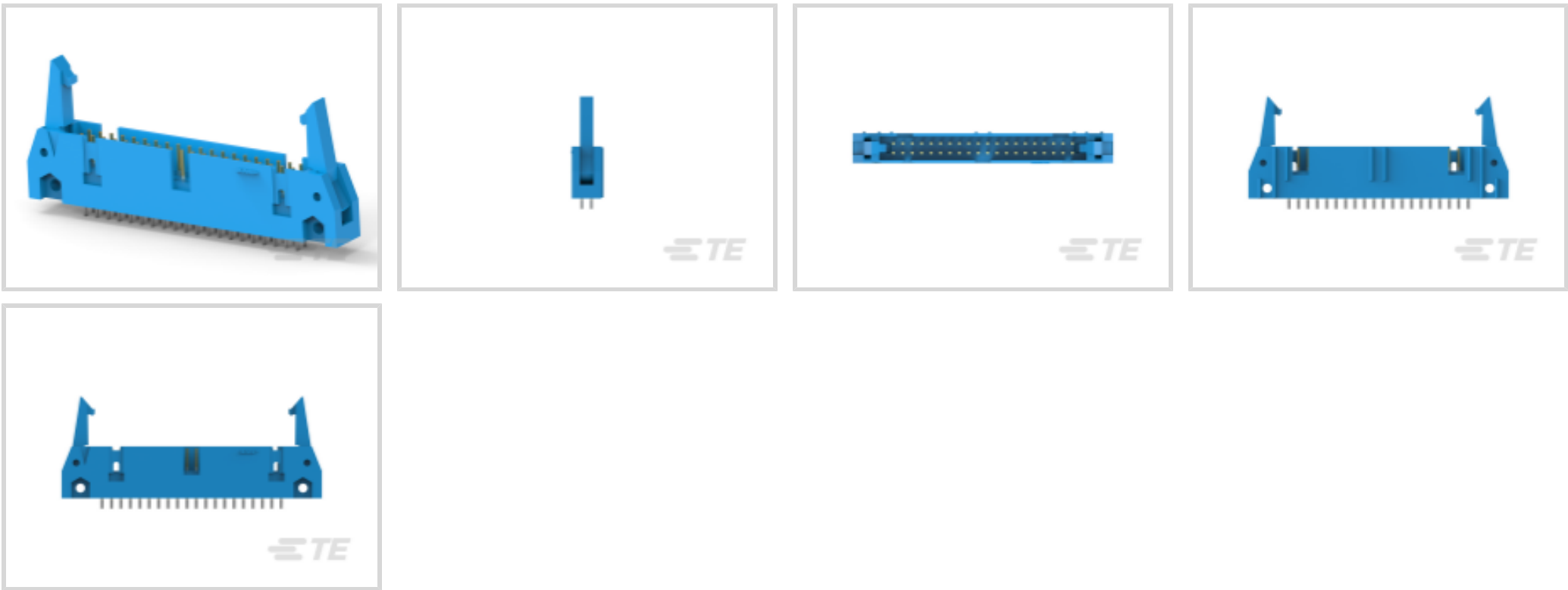




Connectors > PCB Connectors > Wire-to-Board Connectors > FFC, FPC & Ribbon Connectors > Ribbon Cable Connectors >

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 \(523\)](#)

Features

Electrical Characteristics

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

Industry Standards

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

Packaging Features

|                    |      |
|--------------------|------|
| Packaging Quantity | 18   |
| Packaging Method   | Tray |

Usage Conditions

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

Contact Features

|  |  |
|--|--|
|  |  |
|--|--|



|                                                         |                  |
|---------------------------------------------------------|------------------|
| Contact Mating Area Plating Material Thickness          | .76 µm[30 µin]   |
| Mating Square Post Dimension                            | .64 mm[.025 in]  |
| Contact Shape & Form                                    | Square           |
| PCB Contact Termination Area Plating Material Thickness | 2.54 µm[100 µin] |
| Contact Mating Area Plating Material                    | Gold             |
| Contact Base Material                                   | Phosphor Bronze  |
| PCB Contact Termination Area Plating Material           | Tin              |
| Contact Type                                            | Pin              |
| Contact Current Rating (Max)                            | 1 A              |

Body Features

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

Dimensions

|                             |                   |
|-----------------------------|-------------------|
| Shrouded End Dimension      | 3.81 mm[.15 in]   |
| PCB Thickness (Recommended) | 1.57 mm[.062 in]  |
| Connector Height            | 13.94 mm[.548 in] |
| Connector Length            | 70.1 mm[2.76 in]  |
| Row-to-Row Spacing          | 2.54 mm[.1 in]    |

Termination Features

|                                  |                       |
|----------------------------------|-----------------------|
| Termination Post & Tail Diameter | .64 mm[.025 in]       |
| Termination Post & Tail Length   | 2.79 mm[.11 in]       |
| Termination Method to PCB        | Through Hole - Solder |

Mechanical Attachment

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

Housing Features

|  |  |
|--|--|
|  |  |
|--|--|



|                    |                              |
|--------------------|------------------------------|
| Housing Material   | Glass-Filled Nylon/Polyester |
| Centerline (Pitch) | 2.54 mm[.1 in]               |

Product Type Features

|                                    |                                |
|------------------------------------|--------------------------------|
| Connector Product Type             | Connector Assembly             |
| Connector Mating Latch & Lock Type | Long                           |
| Ribbon Cable Connector Header Type | Universal Ejection Pin Headers |
| 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        |

Operation/Application

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

Other

|                    |           |
|--------------------|-----------|
| EU RoHS Compliance | Compliant |
| EU ELV Compliance  | Compliant |

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 2024 (241)<br>Candidate List Declared Against: JUNE 2024 (241)<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                                                                                                    |

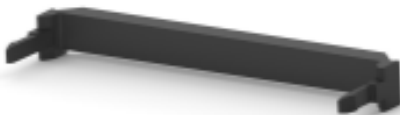
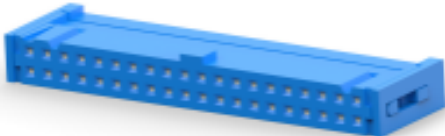
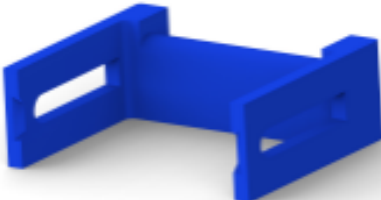
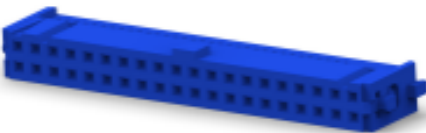
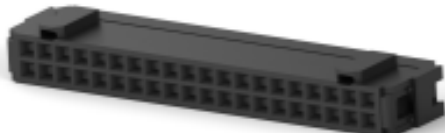
Product Compliance Disclaimer



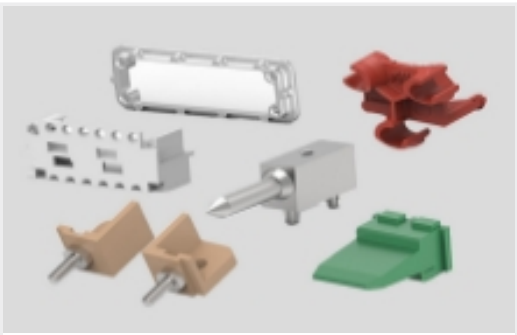


This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight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

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

Also in the Series | AMP-LATCH Universal Headers



[Connector Hardware\(13\)](#)



[Ribbon Cable Connectors\(523\)](#)

Customers Also Bought



TE Part #1393239-7  
[RT114005](#)



TE Part #1445049-6  
[FREE HANG SNGL ROW HSG 6 POS](#)



TE Part #7-1676481-0  
[CPF 0603 5K1 0.1% 25PPM 1K RL](#)



TE Part #1676428-2  
[RN 0805 75R 0.1% 10PPM 1KRL](#)



TE Part #8-1415035-1  
[RT78724](#)



TE Part #1-2366515-4  
[DYNAMIC D1000 SLIM REC HSG 4P X KEY](#)



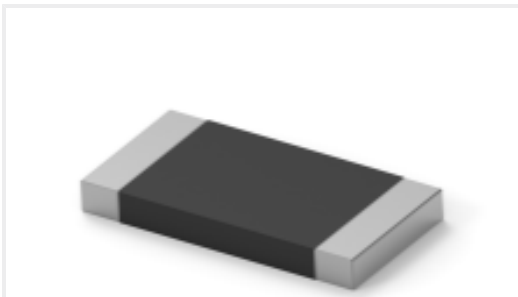
TE Part #1-2366600-4  
[DYNAMIC D1000 SLIM TAB HSG 4P X KEY](#)



TE Part #2367817-2  
[DYNAMIC D1000 SL REC CONT M SIZE Au0.2](#)



TE Part #2367819-2  
[DYNAMIC D1000SL TAB CONT M AU0.2 PLATING](#)



TE Part #6-2176422-1  
[TLRP 2512 3.0W R030 1% 50PPM 4K RL](#)

Documents

Product Drawings

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

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_2-5499206-9\\_C.2d\\_dxf.zip](#)



English

Customer View Model

[ENG\\_CVM\\_CVM\\_2-5499206-9\\_C.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2-5499206-9\\_C.3d\\_stp.zip](#)

English

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

Product Specifications

[Product Specification](#)

English

Agency Approvals

[UL Report](#)

English