

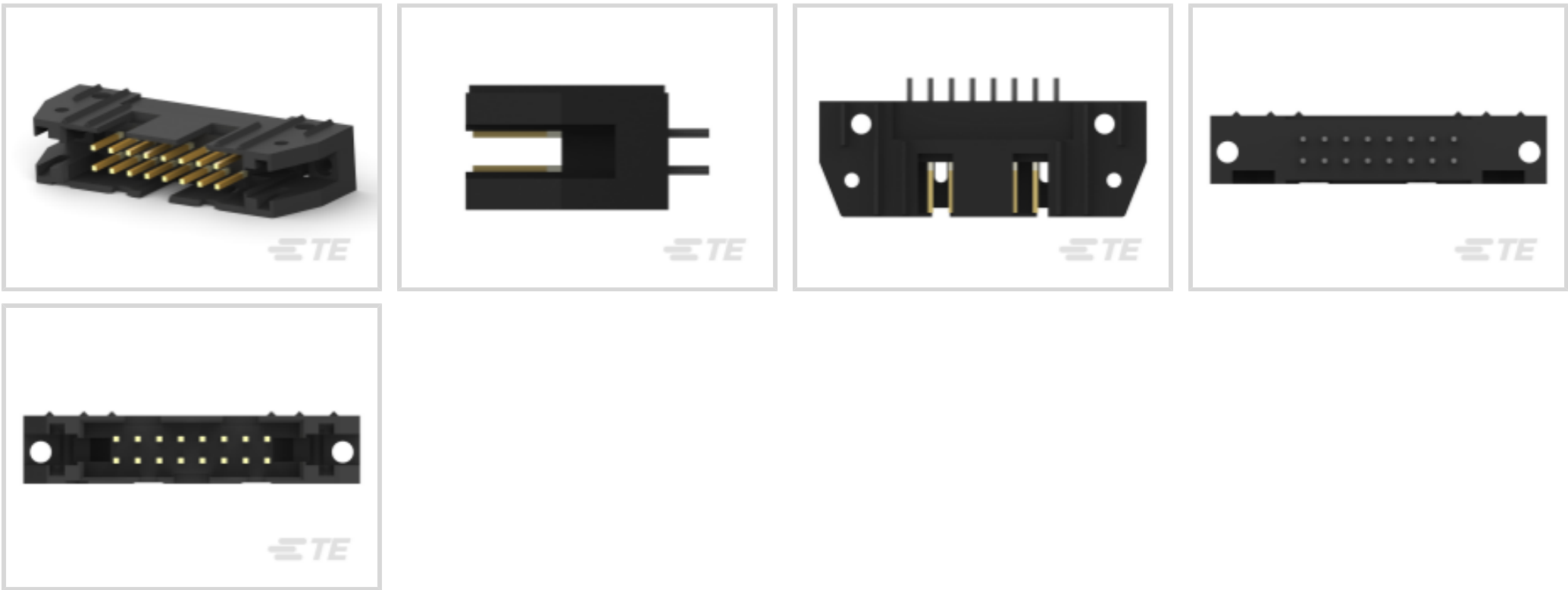


AMP-LATCH | AMP-LATCH Universal Headers

TE Internal #: 5102153-3  
Ribbon Cable Connectors, Wire-to-Board, 16 Position, 2.54 mm [.1 in] Centerline, Vertical, Through Hole - Solder, 2 Row, AMP-LATCH Universal Headers

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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: **16**  
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

|                                    |                                |
|------------------------------------|--------------------------------|
| Connector Type                     | Header                         |
| 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   | 16       |
| PCB Mount Orientation | Vertical |
| Number of Rows        | 2        |

Electrical Characteristics

|                       |         |
|-----------------------|---------|
| Insulation Resistance | 5000 MΩ |
|-----------------------|---------|



|                                                         |                                        |
|---------------------------------------------------------|----------------------------------------|
| Operating Voltage                                       | 250 VAC                                |
| Body Features                                           |                                        |
| Connector Profile                                       | Standard                               |
| Contact Features                                        |                                        |
| Mating Square Post Dimension                            | .64 mm[.025 in]                        |
| PCB Contact Termination Area Plating Material Thickness | 2.54 µm[100 µin]                       |
| Contact Type                                            | Pin                                    |
|                                                         | 15 µin                                 |
| 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                          | 2.79 mm[.11 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                             |
| Housing Color                                           | Black                                  |
| Centerline (Pitch)                                      | 2.54 mm[.1 in]                         |



Dimensions

|                             |                   |
|-----------------------------|-------------------|
| Shrouded End Dimension      | 3.81 mm[.15 in]   |
| Connector Length            | 39.62 mm[1.56 in] |
| Connector Height            | 13.94 mm[.55 in]  |
| PCB Thickness (Recommended) | 1.57 mm[.062 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 | 70   |
| Packaging Method   | Tray |

Other

|         |                                   |
|---------|-----------------------------------|
| Comment | For Use With AMP-Latch Receptacle |
|---------|-----------------------------------|

Product Compliance

For compliance documentation, visit the product page on TE.com>

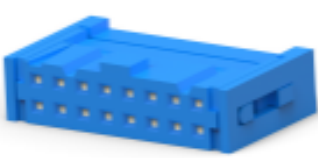
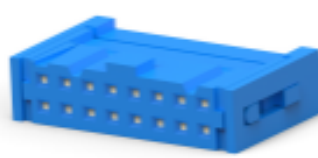
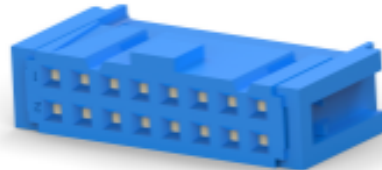
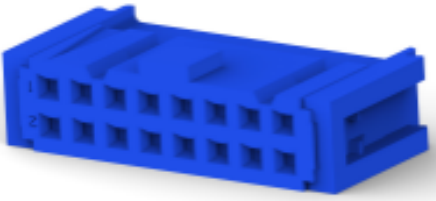
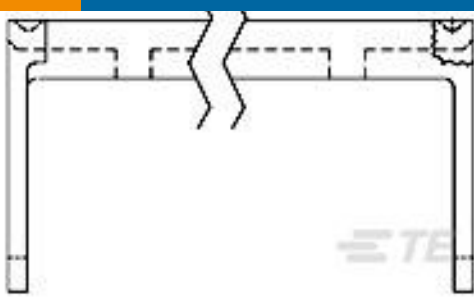
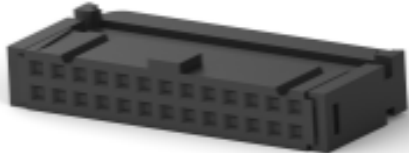
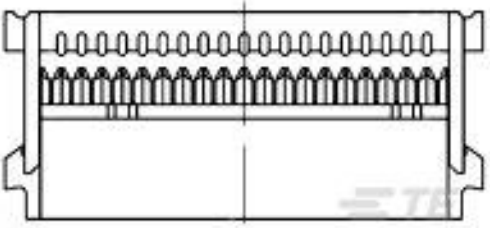
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|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| EU RoHS Directive 2011/65/EU                  | Compliant                                                                                                                       |
| 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 2022 (224)<br>Candidate List Declared Against: JUNE 2022 (224)<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 # 499252-8<br>016 STRAIN RELIEF A-L RCPT        | <br>TE Part # 1-1658526-1<br>609-1641LF FEM SOCKT,LEAD FREE | <br>TE Part # 2-1658526-9<br>609-1630LF=FSKT IDC S 16 30AU  | <br>TE Part # 1658527-7<br>622-1641LF FEM SOCKT,LEAD FREE |
| <br>TE Part # 1658621-3<br>16 NOVO MIL/CTR 15DP,LEAD FREE   | <br>TE Part # 1658622-3<br>16 NOVO MIL/CTR 30DP,LEAD FREE   | <br>TE Part # 1658620-3<br>16 NOVO MIL 15DP, LEAD FREE      | <br>TE Part # 1658623-3<br>16 NOVO MIL 30DP, LEAD FREE    |
| <br>TE Part # 1658527-6<br>622-1630LF FEM SOCKT,LEAD FREE   | <br>TE Part # 6-1437020-6<br>609-1631HD=FSKT IDC S 16 SR    | <br>TE Part # 1658528-5<br>636-2641LF FEM SOCKT,LEAD FREE   | <br>TE Part # 1658624-3<br>016 NOVO DUAL 30DP FT          |
| <br>TE Part # 1-1658526-0<br>609-1601MLF FEM SCKT,LEAD FREE | <br>TE Part # 1-1658528-4<br>636-1630LF=FEM SKT BLADE POL 1 | <br>TE Part # 2-1658528-7<br>636-1641LSLF FEMALE SOCKET CON |                                                                                                                                                |



Also in the Series | AMP-LATCH Universal Headers



Ribbon Cable Connectors(525)



Ribbon Connector Accessories(13)

Documents

Product Drawings

A/L UNIV HDR 16P VERT

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_5102153-3\_B.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_5102153-3\_B.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_5102153-3\_B.3d\_stp.zip

English

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

Datasheets & Catalog Pages

Ribbon Cable Interconnect Solutions

English

Product Specifications

Product Specification

English

Product Environmental Compliance

TE Material Declaration

English

Agency Approvals

Agency Approval Document

English