

A/L UNIV HDR 10P VERT

✓ ACTIVE

AMP-LATCH | AMP-LATCH Universal Headers

TE Part # 5102155-1

TE Internal #: 5102155-1

[View on TE.com >](#)



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



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

Number of Positions: **10**

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

PCB Mount Retention: **With**

PCB Mount Retention Type: **Screw Mount**

Features

Product Type Features

|                                   |                                |
|-----------------------------------|--------------------------------|
| Product Type                      | Connector                      |
| Board Standoff                    | Without                        |
| Connector Type                    | Header                         |
| Header Type                       | Universal Ejection Pin Headers |
| Connector System                  | Wire-to-Board                  |
| Row-to-Row Spacing                | 2.54 mm[.1 in]                 |
| Connector Style                   | Plug                           |
| Profile                           | Standard                       |
| Connector & Contact Terminates To | Printed Circuit Board          |

Configuration Features

|                       |          |
|-----------------------|----------|
| Ejection Latches      | Without  |
| Number of Positions   | 10       |
| PCB Mount Orientation | Vertical |
| Number of Rows        | 2        |

Electrical Characteristics

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



|                       |                |
|-----------------------|----------------|
| Insulation Resistance | 1000 – 5000 MΩ |
| Operating Voltage     | 250 VAC        |

Body Features

|           |                 |
|-----------|-----------------|
| Post Size | .64 mm[.025 in] |
|-----------|-----------------|

Contact Features

|                                               |                  |
|-----------------------------------------------|------------------|
|                                               | 15 μin           |
| Contact Termination Area Plating Material     | Tin              |
| Contact Transmits (Typical)                   | Signal (Data)    |
| Contact Termination Area Plating Thickness    | 2.54 μm[100 μin] |
| Contact Type                                  | Pin              |
| Contact Mating Area Plating Material          | Gold Flash, Gold |
| Contact Shape                                 | 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

|                                             |                  |
|---------------------------------------------|------------------|
| Termination Post Length                     | 3.94 mm[.155 in] |
| Termination Method to Printed Circuit Board | Through Hole     |

Mechanical Attachment

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

Housing Features

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



|                       |                |
|-----------------------|----------------|
| Housing Style         | 4-Sided        |
| Mating Entry Location | Top            |
| Housing Material      | Nylon - GF     |
| Housing Color         | Black          |
| Centerline (Pitch)    | 2.54 mm[.1 in] |

Dimensions

|                             |                  |
|-----------------------------|------------------|
| Length                      | 32 mm[1.26 in]   |
| Height                      | 13.94 mm[.55 in] |
| PCB Thickness (Recommended) | 3.18 mm[.125 in] |
| Shrouded End Dimension      | 3.81 mm[.15 in]  |

Usage Conditions

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

Operation/Application

|                     |                      |
|---------------------|----------------------|
| For Use With        | AMP-Latch Receptacle |
| Circuit Application | Signal               |

Industry Standards

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

Packaging Features

|                    |      |
|--------------------|------|
| Packaging Quantity | 90   |
| Packaging Method   | Tray |

Other

|         |                                                                                                                                                                                                                       |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Comment | Pin headers in 10- and 14-position sizes have only one slot for snap-in polarizer (military polarization), located as shown., Pin headers in 10-position size have only slot for dual polarization, located as shown. |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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 2019 (197)  
Candidate List Declared Against: JAN 2018 (181)

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 Regulations, TE’s information on SVHC in articles for this part number is still based on the European Chemical Agency (ECHA) ‘Guidance on requirements for substances in articles’(Version: 2, April 2011), applying the 0.1% weight on weight concentration threshold at the finished product level. TE is aware of the European Court of Justice ruling of September 10th, 2015 also known as O5A (Once An Article Always An Article) stating that, in case of ‘complex object’, the threshold for a SVHC must be applied to both the product as a whole and simultaneously to each of the articles forming part of its composition. TE has evaluated this ruling based on the new ECHA “Guidance on requirements for substances in articles” (June 2017, version 4.0) and will be updating its statements accordingly.

Compatible Parts



Ribbon Cable Connectors  
(13)



Ribbon Connector  
Accessories(3)

Also in the Series | AMP-LATCH Universal Headers



Ribbon Cable Connectors  
(526)



Ribbon Connector  
Accessories(14)

Customers Also Bought

A/L UNIV HDR 10P VERT

TE Part # 5102155-1  
TE Internal #: 5102155-1



TE Part #350787-3  
02P UMNL PIN HDR ASSY  
94VO LF



TE Part #111338-1  
UNIVERSAL HEADER  
LATCH



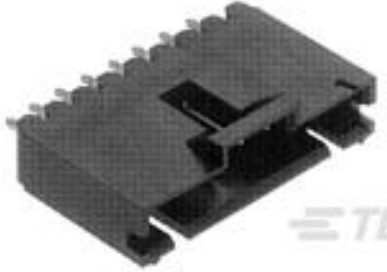
TE Part #5102155-6  
A/L UNIV HDR 26P VERT



TE Part #5102156-9  
A/L UNIV HDR 40P VERT



TE Part #644753-6  
06P MTA156 HDR ASSY  
RN STR F/L



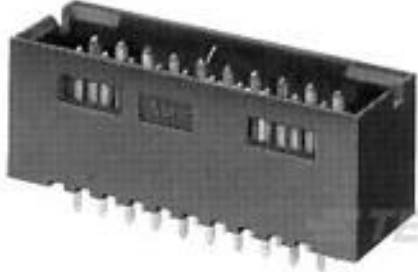
TE Part #103735-1  
02 MTE HDR SRST LATCH .  
100CL



TE Part #5102155-3  
A/L UNIV HDR 16P VERT



TE Part #1-644753-2  
12P MTA156 HDR ASSY  
RN STR F/L



TE Part #5-102619-8  
20 MODII HDR DRST  
SHRD .100CL



TE Part #87232-5  
05 MODII HDR SRRA  
UNSHRD .100

Documents

Product Drawings  
A/L UNIV HDR 10P VERT  
English

CAD Files  
Customer View Model  
ENG\_CVM\_CVM\_5102155-1\_B.2d\_dxf.zip  
English  
3D PDF  
3D  
Customer View Model  
ENG\_CVM\_CVM\_5102155-1\_B.3d\_igs.zip  
English  
Customer View Model  
ENG\_CVM\_CVM\_5102155-1\_B.3d\_stp.zip  
English

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