

5102156-9 ✓ ACTIVE



## 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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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 \(525\)](#)

## 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	40
PCB Mount Orientation	Vertical
Number of Rows	2

### Electrical Characteristics

Insulation Resistance	5000 M $\Omega$
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Operating Voltage	250 VAC
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### Body Features

Connector Profile	Standard
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### Contact Features

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

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

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

Mating Entry Location	Top
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Housing Material	Nylon - GF
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Housing Color	Black
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Centerline (Pitch)	2.54 mm[.1 in]
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### 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
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### Industry Standards

UL Flammability Rating	UL 94V-0
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### Packaging Features

Packaging Quantity	40
Packaging Method	Tray

### Other

Comment	For Use With AMP-Latch Receptacle
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## Product Compliance

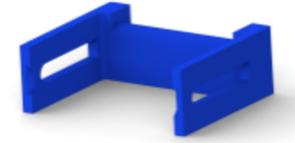
[For compliance documentation, visit the product page on TE.com>](#)

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 2022 (224) Candidate List Declared Against: JUNE 2022 (224) 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 # 499252-1 040 STRAIN RELIEF A-L RCPT</p>	 <p>TE Part # 1-1658527-3 622-4041LF FEM SOCKET, LEAD FREE</p>	 <p>TE Part # 1658622-9 40 NOVO MIL/CTR 30DP, LEAD FREE</p>	 <p>TE Part # 1658620-9 40 NOVO MIL 15DP, LEAD FREE</p>
 <p>TE Part # 1658621-9 40 NOVO MIL/CTR 15DP, LEAD FREE</p>	 <p>TE Part # 1658623-9 40 NOVO MIL 30DP, LEAD FREE</p>	 <p>TE Part # 2-1658526-0 609-4030LF FEM SOCKET, LEAD FREE</p>	 <p>TE Part # 2-1658526-1 609-4041LF FEM SOCKET, LEAD FREE</p>
 <p>TE Part # 1-1658528-9 636-4041LF=FEM SKT BLD POL S/R</p>	 <p>TE Part # 1658624-9 40 NOVO DUAL 30DP, LEAD FREE</p>	 <p>TE Part # CAT-AM71-A85022 Female Socket Connectors: Strain Relief</p>	 <p>TE Part # 1-1658527-2 622-4030LF FEM SOCKET, LEAD FREE</p>

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



Ribbon Cable Connectors(525)



Ribbon Connector Accessories(13)

## 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\\_SECTION5](#)

English

[Ribbon Cable Interconnect Solutions](#)

English

### Product Specifications

[Product Specification](#)

English

### Agency Approvals

[Agency Approval Document](#)

English