

5102156-4 ✓ ACTIVE

AMP-LATCH | AMP-LATCH Universal Headers

TE Internal #: 5102156-4

Ribbon Cable Connectors, Wire-to-Board, 20 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: **20**

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	20
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 μ m[100 μ in]
Contact Type	Pin
	30 μ 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	44.7 mm[1.76 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	70
Packaging Method	Tray

Other

Wire-to-Board Connector 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 2023 (235) Candidate List Declared Against: JUNE 2023 (235) 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 # 499252-2 020 STRAIN RELIEF A-L RCPT</p>	 <p>TE Part # CAT-AM71-A85022 Female Socket Connectors: Strain Relief</p>	 <p>TE Part # 1658620-4 20 NOVO MIL 15DP, LEAD FREE</p>	 <p>TE Part # 1-1658526-2 609-2030LF FEM SOCKET, LEAD FREE</p>
 <p>TE Part # 1-1658526-3 609-2041LF FEM SOCKET, LEAD FREE</p>	 <p>TE Part # 1658623-4 20 NOVO MIL 30DP, LEAD FREE</p>	 <p>TE Part # 1658624-4 20 NOVO DUAL 30DP, LEAD FREE</p>	 <p>TE Part # 1658528-4 636-2041LF FEM SOCKET, LEAD FREE</p>
 <p>TE Part # 1658621-4 20 NOVO MIL/CTR 15DP, LEAD FREE</p>	 <p>TE Part # 1658622-4 20 NOVO MIL/CTR 30DP, LEAD FREE</p>	 <p>TE Part # 1658527-8 622-2041LF FEM SOCKET, LEAD FREE</p>	 <p>TE Part # 2-1658527-3 622-2030LF=FSKT IDC S 20 30AU</p>
 <p>TE Part # 1-1658528-5 636-2030LF=FEM SKT BLADE POL 1</p>	 <p>TE Part # 3-1658526-0 609-2000MLF=FSKT IDC S 20 30AU</p>		

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



Ribbon Cable Connectors(525)



Ribbon Connector Accessories(13)

Customers Also Bought



TE Part #5102156-5
A/L UNIV HDR 24P VERT



TE Part #5-794629-4
24P MICRO MNL ASSY,R/A,SMT,LF



TE Part #749087-1
50SR SCREWLOCK KIT,FEMALE



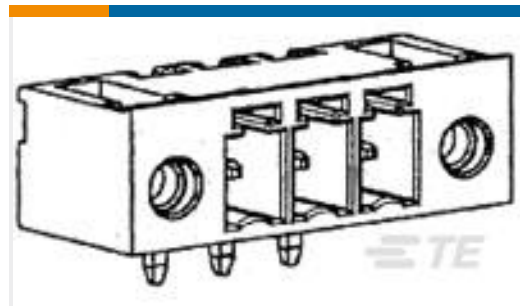
TE Part #5-103673-8
9 MTE HDR SRRA LATCH W/HLDWN



TE Part #5-104363-4
05 MTE HDR SRST LATCH .100CL



TE Part #5-2176305-0
RP 1E 0.1W 348R 0.1% 25PPM 5K RL



TE Part #796866-6
6 POS TERMI-BLOK HDR RT ANGLE



TE Part #214012-E
SRCA 1,27 4 M 1 SMD 137 E1 094 *
GURT *



TE Part #364485-E
SRCP 1,27 4 F 1 SMD 137 * 094 *
GURT RLV



TE Part #1-338086-3
6/6 INV.MOD JACK

Documents

Product Drawings

[A/L UNIV HDR 20P VERT](#)

English

CAD Files

[3D PDF](#)

[3D](#)

[Customer View Model](#)

[ENG_CVM_CVM_5102156-4_C.2d_dxf.zip](#)



English

Customer View Model

[ENG_CVM_CVM_5102156-4_C.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_5102156-4_C.3d_stp.zip](#)

English

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Datasheets & Catalog Pages

[AMPMODU_INTERCONNECTION_SYSTEM_SECTIONS](#)

English

[Ribbon Cable Interconnect Solutions](#)

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Product Specifications

[Product Specification](#)

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Product Environmental Compliance

[MD_5102156-4_07272012838](#)

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[MD_5102156-4_07272012838](#)

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Agency Approvals

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