

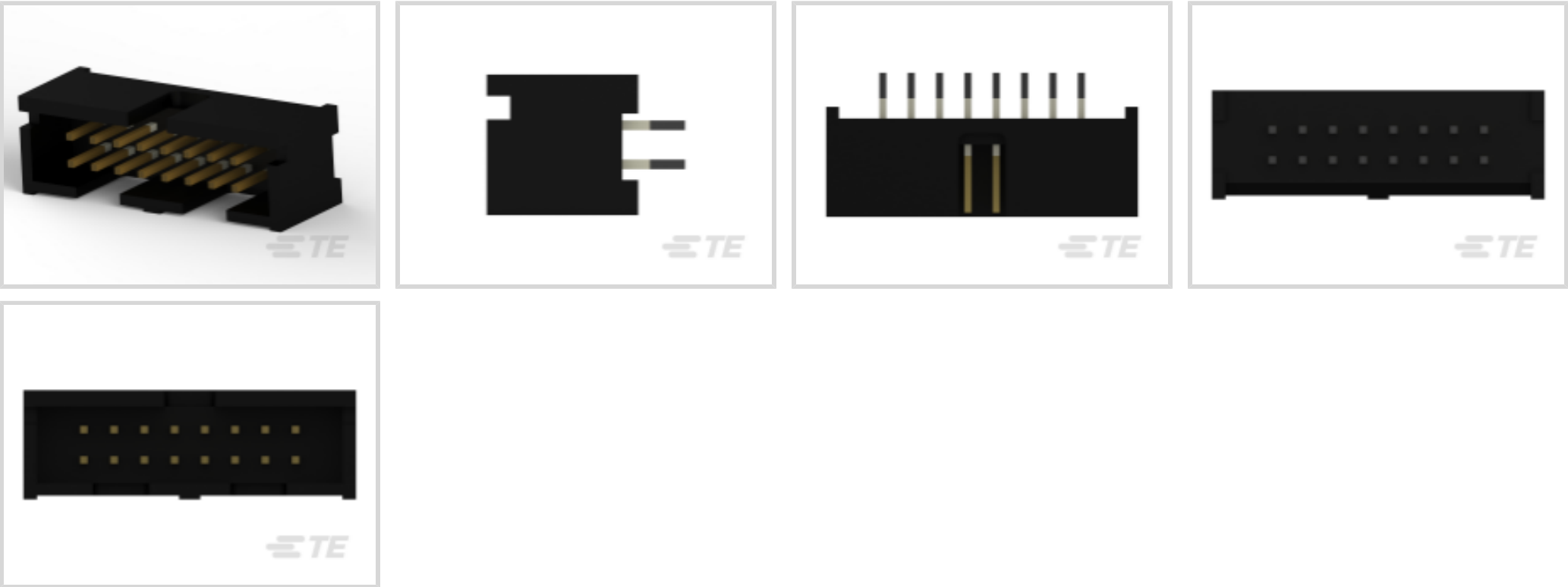


AMP-LATCH

TE Internal #: 5103309-3
Ribbon Cable Connectors, Wire-to-Board, 16 Position, 2.54 mm [.1 in] Centerline, Vertical, Through Hole - Solder, 2 Row, Plug, Low Profile

[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: **16**
Centerline (Pitch): **2.54 mm [.1 in]**
PCB Mount Retention: **Without**
PCB Mount Orientation: **Vertical**

Features

Product Type Features

Connector Type	Header
Ribbon Cable Connector Header Type	Pin Header
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



Daisy Chain	With
Connector Profile	Low

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
	30 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	Copper Alloy
Contact Current Rating (Max)	1 A

Termination Features

Square Termination Post & Tail Dimension	.64 mm[.025 in]
Termination Post & Tail Length	3.05 mm[.12 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	Without
Connector Mounting Type	Board Mount

Housing Features

Housing Material	Glass Filled Nylon/PBT
Housing Color	Black
Centerline (Pitch)	2.54 mm[.1 in]

Dimensions

Shrouded End Dimension	3.81 mm[.15 in]
Connector Length	27.94 mm[1.1 in]



Connector Height	8.81 mm[.347 in]
Row-to-Row Spacing	2.54 mm[.1 in]

Usage Conditions

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

Operation/Application

Solder Process Feature	Board Standoff
Circuit Application	Signal

Industry Standards

UL Flammability Rating	UL 94V-0
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Packaging Features

Packaging Quantity	35
Packaging Method	Tube

Other

Comment	Mates with Receptacles
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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	BFR/CFR/PVC Free, but Br/Cl >900 ppm in other sources.
Solder Process Capability	Wave solder capable to 265°C

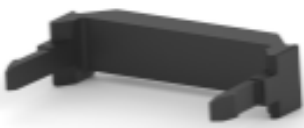
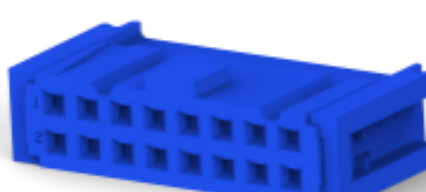
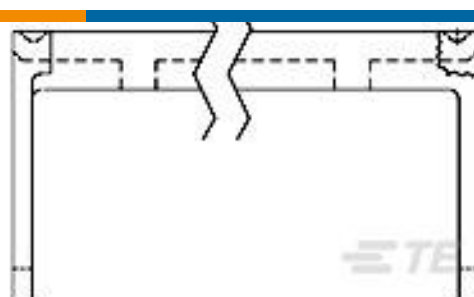
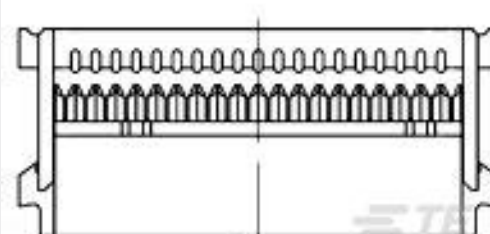
Product Compliance Disclaimer

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

 TE Part # 499252-8 016 STRAIN RELIEF A-L RCPT	 TE Part # 1-1658526-1 609-1641LF FEM SOCKET,LEAD FREE	 TE Part # 2-1658526-9 609-1630LF=FSKT IDC S 16 30AU	 TE Part # 1658527-7 622-1641LF FEM SOCKET,LEAD FREE
 TE Part # 1658621-3 16 NOVO MIL/CTR 15DP,LEAD FREE	 TE Part # 1658622-3 16 NOVO MIL/CTR 30DP,LEAD FREE	 TE Part # 102387-3 16 MODIV HSG COMP DR .100 POL	 TE Part # 1658620-3 16 NOVO MIL 15DP, LEAD FREE
 TE Part # 1658623-3 16 NOVO MIL 30DP, LEAD FREE	 TE Part # 1658527-6 622-1630LF FEM SOCKET,LEAD FREE	 TE Part # 6-1437020-6 609-1631HD=FSKT IDC S 16 SR	 TE Part # 1658528-5 636-2641LF FEM SOCKET,LEAD FREE
 TE Part # 1658624-3 016 NOVO DUAL 30DP FT	 TE Part # 1-1658526-0 609-1601MLF FEM SCKT,LEAD FREE	 TE Part # 1-1658528-4 636-1630LF=FEM SKT BLADE POL 1	 TE Part # 2-1658528-7 636-1641LSLF FEMALE SOCKET CON

Documents

Product Drawings
A/L LOW PRO HDR 16P VERT BLACK
English



CAD Files

3D PDF

English

Customer View Model

ENG_CVM_5103309-3_B.2d_dxf.zip

English

Customer View Model

ENG_CVM_5103309-3_B.3d_igs.zip

English

Customer View Model

ENG_CVM_5103309-3_B.3d_stp.zip

English

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Datasheets & Catalog Pages

AMPMODU_INTERCONNECTION_SYSTEM_SECTION5

English

Ribbon Cable Interconnect Solutions

English

Product Specifications

Product Specification

English

Product Environmental Compliance

MD_5103309-3_09032018237_dmtec

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