



AMP-LATCH

TE Internal #: 1-1761681-5  
Ribbon Cable Connectors, Wire-to-Board, 50 Position, 2.54mm [.1in] Centerline, Vertical, Through Hole - Solder, Row-to-Row  
Spacing 2.54 mm [.1 in]

[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: **50**  
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	50
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]
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PCB Contact Termination Area Plating Material Thickness	2.54 μm[100 μin]
Contact Type	Pin
	15 μin
Contact Mating Area Plating Material	Gold
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

Square Termination Post & Tail Dimension	.64 mm[.025 in]
Termination Post & Tail Length	2.9 mm[.114 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
Mating Retention	Without
Connector Mounting Type	Board Mount

Housing Features

Mating Entry Location	Top
Housing Material	PCT
Housing Color	Black
Centerline (Pitch)	2.54 mm[.1 in]

Dimensions

Shrouded End Dimension	3.81 mm[.15 in]
Connector Length	71.12 mm[2.8 in]
Connector Height	8.89 mm[.35 in]
Row-to-Row Spacing	2.54 mm[.1 in]

Usage Conditions

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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	50
Packaging Method	Package

Other

Comment	For Use With AMP-Latch Receptacle
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Product Compliance

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

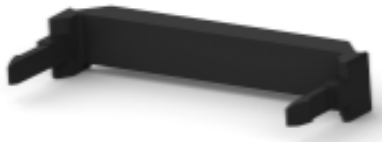
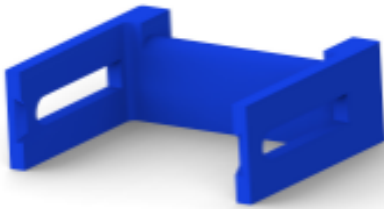

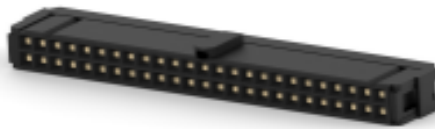

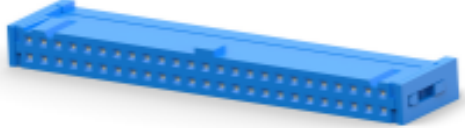




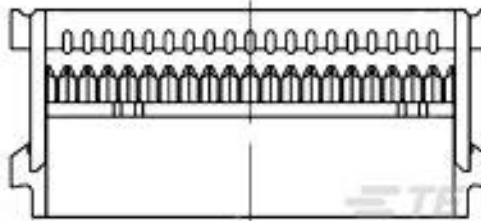

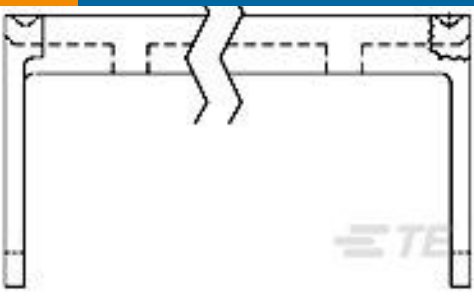
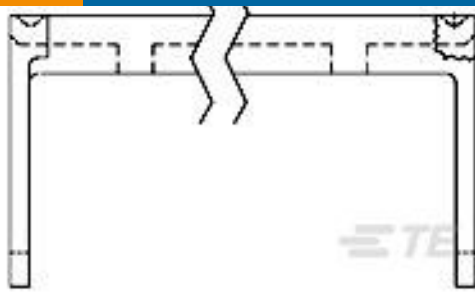
EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JAN 2021 (211) Candidate List Declared Against: JAN 2021 (211) Does not 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

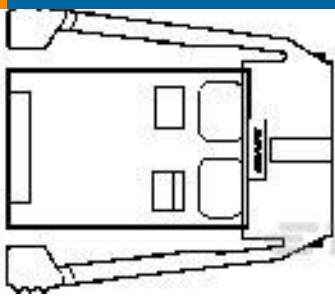
 TE Part # CAT-AM71-A8502 Bus Connector: Strain Relief, ATA	 TE Part # CAT-AM71-A85022 Female Socket Connectors: Strain Relief	 TE Part # 1-1658622-0 50 NOVO MIL/CTR 30DP, LEAD FREE	 TE Part # 1-1658621-0 50 NOVO MIL/CTR 15DP, LEAD FREE
 TE Part # 1-1658623-0 50 NOVO MIL 30DP, LEAD FREE	 TE Part # 2-1658526-3 609-5030LF FEM SOCKET, LEAD FREE	 TE Part # 2-1658526-4 609-5041LF FEM SOCKET, LEAD FREE	 TE Part # 1-1658527-4 622-5030LF FEM SOCKET, LEAD FREE
 TE Part # 1-1658527-5 622-5041LF FEM SOCKET, LEAD FREE	 TE Part # 1658528-8 636-5041LF FEM SOCKET, LEAD FREE	 TE Part # 1-1658620-0 50 NOVO MIL 15DP, LEAD FREE	 TE Part # 2-1658526-2 609-5001MLF FEM SCKT, LEAD FREE
 TE Part # 2-1658528-0 636-5030LF=FEM SKT BLADE POL 1	 TE Part # 1-1437025-2 622-5031=FSKT IDC S 50 SR	 TE Part # 6-1437028-8 636-5031=FEM SOKT 15 MICRO	

Customers Also Bought

 TE Part #2-1423678-1 W23-X1A1A-25=CKTBKR,THERM,PB, SCW,BUSH	 TE Part #2-292174-5 CT Box Header SMT: Vert, Shrouded	 TE Part #YDTS26F09-98SNC001 Straight Plug: D38999, 09-98 Insert, Electroless Nickel Plating	 TE Part #2-1423678-0 W23-X1A1A-20=CKTBKR,THERM,PB, SCW,BUSH
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TE Part #1-2215056-4  
ASSY, EXTRACT TL, QSFP28 1X4



TE Part #1-520532-6  
16 SDL RND PLUG ASSY 36 SERIES



TE Part #2-2170747-1  
CAGE ASSY, 1X4, QSFP28, SPRING, HS, LP



TE Part #1-1879337-3  
CPF 0603 3K32 1% 50PPM 1K RL



TE Part #2-1879808-0  
RP 1J 75K 0.1% 15PPM 1K RL



TE Part #1-2176377-3  
RQ 0805 178K 0.1% 10PPM 1K RL

Documents

Product Drawings

IDC LOW PRO HDR 50P VERT HT BLACK

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_1-1761681-5\_A.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_1-1761681-5\_A.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_1-1761681-5\_A.3d\_stp.zip

English

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Product Specifications

Application Specification

English