



AMP-LATCH

TE Internal #: 3-1761606-5
Ribbon Cable Connectors, Wire-to-Board, 50 Position, 2.54 mm [.1 in] Centerline, Vertical, Through Hole - Solder, 2 Row, Plug, Low Profile

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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

PCB Contact Termination Area Plating Material Thickness	2.54 μm[100 μin]
Mating Pin Diameter	.64 mm[.025 in]
Contact Type	Pin
Contact Mating Area Plating Material Thickness	.762 μm[30 μin]
Contact Mating Area Plating Material	Gold Flash
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	2.6 mm[.102 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	With
Mating Retention Type	Ejection Latch
Connector Mounting Type	Board Mount

Housing Features

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

Dimensions

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Shrouded End Dimension	3.76 mm[.148 in]
Connector Length	71.12 mm[2.8 in]
Connector Height	9.19 mm[.36 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	7
Packaging Method	Tube

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: JUL 2021 (219) Does not contain REACH SVHC
Halogen Content	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
Solder Process Capability	Wave solder capable to 265°C

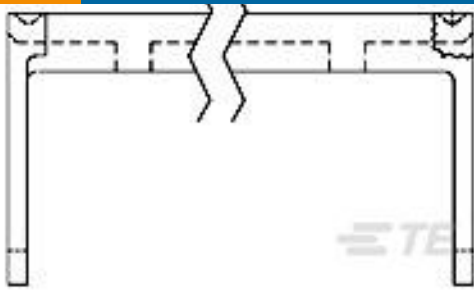
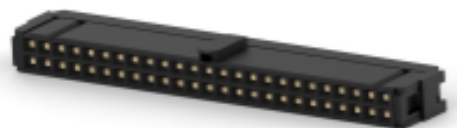
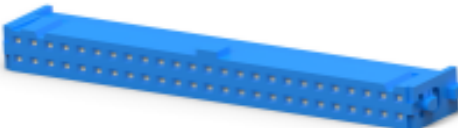
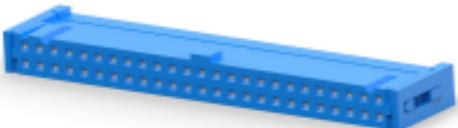
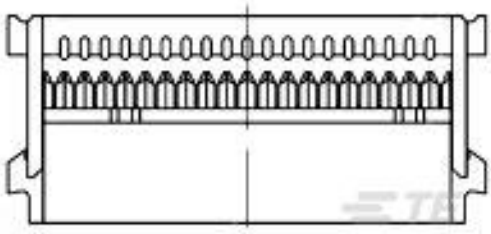
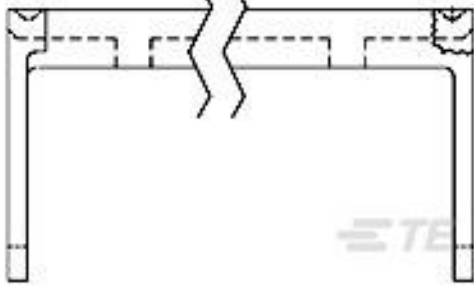
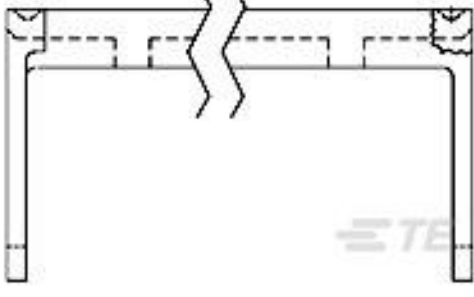
Product Compliance Disclaimer

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 # 499252-4 050 STRAIN RELIEF A-L RCPT	 TE Part # 8-1437021-1 609-5031HD=FSKT IDC S 50 SR	 TE Part # 1-1658622-0 50 NOVO MIL/CTR 30DP,LEAD FREE	 TE Part # 1-1658620-0 50 NOVO MIL 15DP, 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 # 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	

Documents

Product Drawings



IDC LOW PRO HDR 50P VERT LG LA

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_3-1761606-5_D.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_3-1761606-5_D.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_3-1761606-5_D.3d_stp.zip

English

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Product Specifications

Product Specification

English