1-5102156-0 ✔ ACTIVE

AMP-LATCH | AMP-LATCH Universal Headers

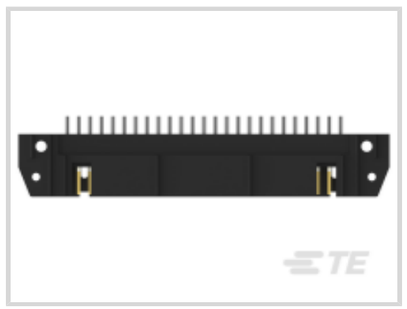
TE Internal #: 1-5102156-0

Wire-to-Board, 50 Position, 2.54 mm [.1 in] Centerline, Vertical, Through Hole - Solder, 2 Row, AMP-LATCH Universal Headers, Ribbon Cable Connectors

View on TE.com >

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: **50**

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	50
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 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	Phosphor Bronze
Contact Current Rating (Max)	1 A

Termination Features

Termination Post & Tail Diameter	.64 mm[.025 in]
Termination Post & Tail Length	3.94 mm[.155 in]
Termination Method to PCB	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	82.8 mm[3.26 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

Industry Standards

UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Quantity	30
Packaging Method	Tray

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 2024 (241) Candidate List Declared Against: JUNE 2024 (241) 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

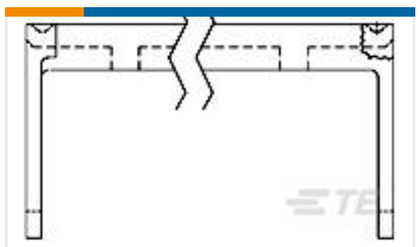
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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 # 499252-4
050 STRAIN RELIEF A-L RCPT



TE Part # 8-1437021-1
609-5031HD=FSKT IDC S 50 SR



TE Part # 1-102387-0
50 MODIV HSG COMP DR .100 POL



TE Part # 1-1658622-0
50 NOVO MIL/CTR 30DP,LEAD FREE



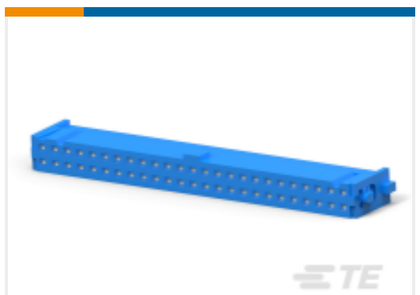
TE Part # 1-1658620-0
50 NOVO MIL 15DP, LEAD FREE



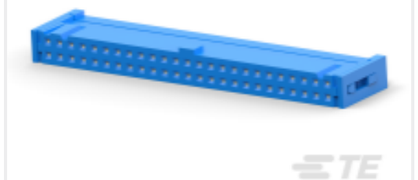
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50 NOVO MIL/CTR 15DP,LEAD FREE



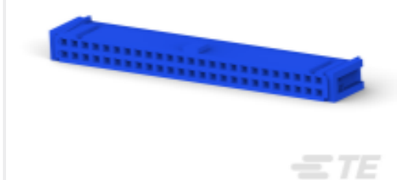
TE Part # 1-1658623-0
50 NOVO MIL 30DP, LEAD FREE



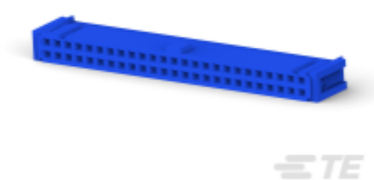
TE Part # 2-1658526-3
609-5030LF FEM SOCKT,LEAD FREE



TE Part # 2-1658526-4
609-5041LF FEM SOCKT,LEAD FREE



TE Part # 1-1658527-4
622-5030LF FEM SOCKT,LEAD FREE



TE Part # 1-1658527-5
622-5041LF FEM SOCKT,LEAD FREE



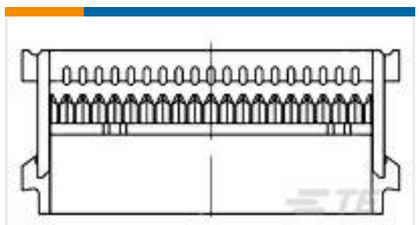
TE Part # 1658528-8
636-5041LF FEM SOCKT,LEAD FREE



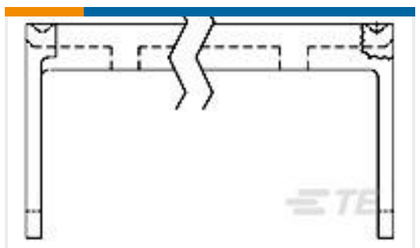
TE Part # 1-1658624-0
050 NOVO DUAL 30DP FT



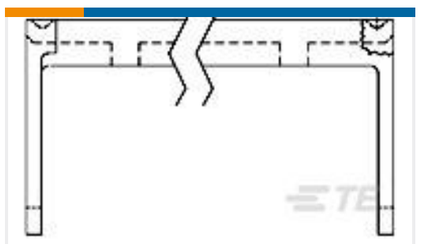
TE Part # 2-1658528-0
636-5030LF=FEM SKT BLADE POL 1



TE Part # 2-1658526-2
609-5001MLF FEM SCKT,LEAD FREE



TE Part # 1-1437025-2
622-5031=FSKT IDC S 50 SR



TE Part # 6-1437028-8
636-5031=FEM SOKT 15 MICRO

Also in the Series | AMP-LATCH Universal Headers

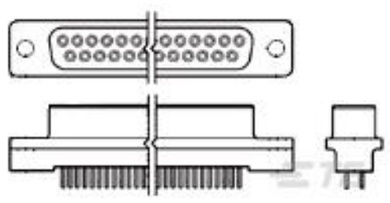


Connector Hardware(13)



Ribbon Cable Connectors(525)

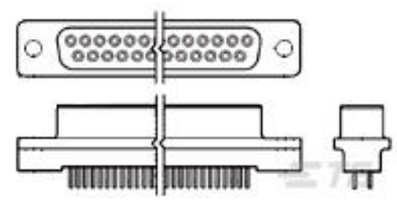
Customers Also Bought



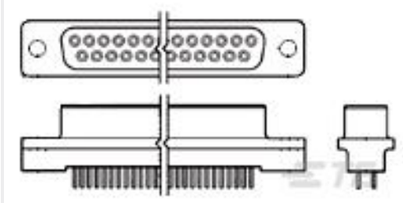
TE Part #5745078-6
HD-20 RCPT 25P VERT FFSCRLK



TE Part #5745072-4
HD-20 PLUG 15P VERT FFSCRLK



TE Part #5745076-6
HD-20 RCPT 9P VERT FFSCRLK



TE Part #5745077-6
HD-20 RCPT 15P VERT FFSCRLK



TE Part #1-928776-5
MOD2 STIFT M A-PIN



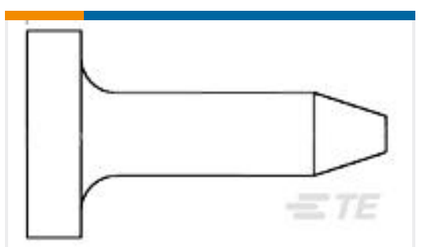
TE Part #5-103080-2
04 MODII HDR SRST SHRD .100CL



TE Part #8-2176091-4
RP 2A 0.25W 442R 0.1% 25PPM 1K RL



TE Part #1860991-1
RT78602, RELAY SOCKET PCB 5MM



TE Part #206509-1
SIZE 20 KEYING PLUG

Documents

Product Drawings

A/L UNIV HDR 50P VERT

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1-5102156-0_C.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1-5102156-0_C.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1-5102156-0_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

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TE Connectivity:

MPT100C18RF SBCHE154R7K 1-962915-1 1743455-2 1969656-1 2310537-1 3-1393225-0 3430B2F51RTDF 175977-2 936348-1 ROX05SJ18R U5254-000005-030PA 2-292161-3 2005330-1 650075-000 2377783-2 CRGCQ2010J3K3 SBCHE64R7K TE50BR39J 3631B101LL 917696-1 SMW73R0JT 1393431-1 141991-2 2380312-2 CPF0402B37K4E1 RH73H2A40MKTN 1-794222-0 1903112-2 2834055-1