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AMP-LATCH UNIVERSAL HEADERS



Connector System: **Wire-to-Wire**

Number of Positions: **20**

Centerline (Pitch): **2.54 mm [.1 in]**

PCB Mount Retention: **With**

PCB Mount Retention Type: **Screw Mount**

[All AMP-LATCH UNIVERSAL HEADERS \(523\)](#)

Features

Product Type Features

Connector Product Type	Connector Assembly
Ribbon Cable Connector Header Type	Universal Ejection Pin Headers
Connector System	Wire-to-Wire
Connector & Housing Type	Plug
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

Number of Positions	20
PCB Mount Orientation	Right Angle
Number of Rows	2

Electrical Characteristics

Operating Voltage	250 VAC
Insulation Resistance	5000 MΩ

Body Features

Primary Product Color	Red
Connector Profile	Standard

Contact Features



Contact Mating Area Plating Material Thickness	.76 µm[30 µin]
Mating Square Post Dimension	.64 mm[.025 in]
Contact Shape & Form	Square
PCB Contact Termination Area Plating Material Thickness	2.54 µm[100 µin]
Contact Mating Area Plating Material	Gold (Au)
Contact Base Material	Phosphor Bronze
PCB Contact Termination Area Plating Material	Tin
Contact Type	Pin
Contact Current Rating (Max)	1 A

Termination Features

Termination Post & Tail Diameter	.64 mm[.025 in]
Termination Post & Tail Length	2.79 mm[.11 in]
Termination Method to PCB	Through Hole - Solder

Mechanical Attachment

Panel Mount Feature	Without
Mating Alignment	With
PCB Mount Alignment	Without
PCB Mount Retention	With
PCB Mount Retention Type	Screw Mount
Mating Alignment Type	Center, Dual Polarizing Bar
Mating Retention	Without
Connector Mounting Type	Board Mount

Housing Features

Housing Material	PCT
Centerline (Pitch)	2.54 mm[.1 in]

Dimensions

Shrouded End Dimension	3.81 mm[.15 in]
Connector Height	8.64 mm[.548 in]
Connector Length	44.7 mm[1.76 in]
Row-to-Row Spacing	2.54 mm[.1 in]

Usage Conditions

Housing Temperature Rating	High
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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	30
Packaging Method	Box

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 2025 (247) Candidate List Declared Against: JAN 2025 (247) Does not contain REACH SVHC
Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
Solder Process Capability	Pin-in-Paste capable to 245°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 Regulations, TE’s information on SVHC in articles for this part number is still based on the European Chemical Agency (ECHA) ‘Guidance on requirements for substances in articles’(Version: 2, April 2011), applying the 0.1% weight on weight concentration threshold at the finished product level. TE is aware of the European Court of Justice ruling of September 10th, 2015 also known as O5A (Once An Article Always An Article) stating that, in case of ‘complex object’, the threshold for a SVHC must be applied to both the product as a whole and simultaneously to each of the articles forming part of its composition. TE has evaluated this ruling based on the new ECHA “Guidance on requirements for substances in articles” (June 2017, version 4.0) and will be updating its statements accordingly.

Compatible Parts



TE Part # 1-1658528-5
636-2030LF=FEM SKT BLADE POL 1



TE Part # 1658623-4
20 NOVO MIL 30DP, LEAD FREE



TE Part # 1658528-4
636-2041LF FEM SOCKET, LEAD FREE



TE Part # 1658527-8
622-2041LF FEM SOCKET, LEAD FREE



TE Part # 2-1658527-3
622-2030LF=FSKT IDC S 20 30AU



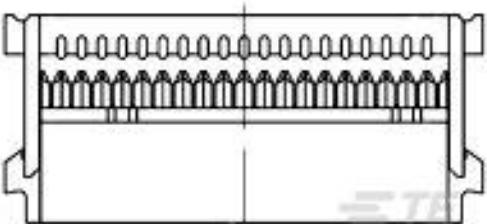
TE Part # CAT-AM71-A85022
Female Socket Connectors: Strain Relief



TE Part # 1-1658526-3
609-2041LF FEM SOCKET, LEAD FREE



TE Part # 1658621-4
20 NOVO MIL/CTR 15DP, LEAD FREE



TE Part # 3-1658526-0
609-2000MLF=FSKT IDC S 20 30AU



TE Part # 499252-2
020 STRAIN RELIEF A-L RCPT



TE Part # 1658620-4
20 NOVO MIL 15DP, LEAD FREE



TE Part # 1658622-4
20 NOVO MIL/CTR 30DP, LEAD FREE



TE Part # 1658624-4
20 NOVO DUAL 30DP, LEAD FREE



TE Part # 1-1658526-2
609-2030LF FEM SOCKET, LEAD FREE

Also in the Series | [AMP-LATCH Universal Headers](#)



[Connector Hardware\(13\)](#)

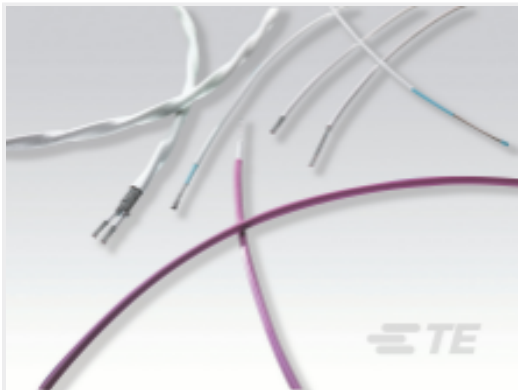


[Ribbon Cable Connectors\(523\)](#)

Customers Also Bought



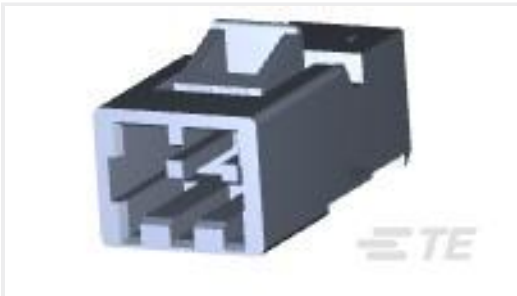
TE Part #5-103961-6
2X7 MTE RCPT SR LATCH .100CL



TE Part #CAT-55A-SC-H22
General Purpose Hookup Wire: Silver Coated Copper Wire, 22 AWG



TE Part #1-104666-1
26 SYSTEM 50 HDR DRST SHRD



TE Part #3-641439-2
02P MTA156 PSTD CONN ASSY LF



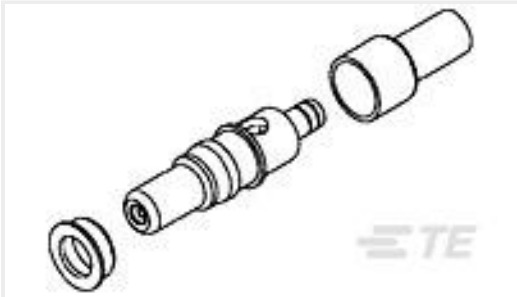
TE Part #E74619-000
SO175-5-55-22-95



TE Part #1-5353187-1
.6FHP08H,160,S,STD,08/Sn,TR,NS



TE Part #745051-2
09 PLUG SP/AP INSRT



TE Part #5221980-1
PIN,STRAIGHT,SIZE 8,50 OHM



TE Part #7449483001
55A0112-22-5

Documents

Product Drawings

A/L UNIV HDR 20P RA HT

English

CAD Files

Customer View Model

ENG_CVM_CVM_5111105-4_C.2d_dxf.zip

English

3D PDF

3D

Customer View Model

ENG_CVM_CVM_5111105-4_C.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_5111105-4_C.3d_stp.zip

English

By downloading the CAD file I accept and agree to the Terms and Conditions of use.

Datasheets & Catalog Pages



Ribbon Cable Interconnect Solutions

English

Product Specifications

Product Specification

English