



Connectors > PCB Connectors > Wire-to-Board Connectors > FFC, FPC & Ribbon Connectors > Ribbon Cable Connectors



Connector System: **Wire-to-Board**  
Number of Positions: **20**  
Centerline (Pitch): **2.54 mm [ .1 in ]**  
PCB Mount Retention: **Without**  
PCB Mount Orientation: **Vertical**

Features

Product Type Features

Product Type	Connector
Board Standoff	Without
Connector Type	Connector Assembly
Wire/Cable Type	Ribbon Cable
Header Type	Pin Header
Connector System	Wire-to-Board
Row-to-Row Spacing	2.54 mm[.1 in]
Connector Style	Receptacle
Profile	Low
Connector & Contact Terminates To	Wire & Cable

Configuration Features

Ejection Latches	Without
Number of Positions	20
PCB Mount Orientation	Vertical
Number of Rows	2



Electrical Characteristics

UL Voltage Rating	250 VAC
Insulation Resistance	5000 MΩ
Operating Voltage	250 VAC

Body Features

Daisy Chain	Without
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Contact Features

Contact Termination Area Plating Material	Tin
Contact Design	Tuning Fork
Contact Transmits (Typical)	Signal (Data)
Contact Mating Area Plating Thickness	.76 μm[29.92 μin]
Contact Termination Area Plating Thickness	1.27 μm[50 μin]
Contact Type	Socket
Contact Mating Area Plating Material	Gold or Palladium Nickel or Performance Based
Contact Base Material	Phosphor Bronze
Contact Current Rating (Max)	1 A

Termination Features

Termination Method to Printed Circuit Board	Through Hole - Solder
Termination Method to Wire & Cable	Insulation Displacement Crimp (IDC)

Mechanical Attachment

Polarization	With
Mating Alignment	With
PCB Mount Alignment	Without
Panel Mount Feature	Without
PCB Mount Retention	Without
Mating Alignment Type	Polarization
Mating Connector Lock	Without
Connector Mounting Type	Cable Mount (Free-Hanging)

Housing Features

Housing Material	Thermoplastic
Housing Color	Black
Centerline (Pitch)	2.54 mm[.1 in]



Dimensions

Length	29.97 mm[1.1799 in]
Accepts Wire Insulation Diameter Range	.787 – .94 mm[.031 – .037 in]
Width	7.49 mm[.2949 in]
Height	15.16 mm[.5968 in]
Wire Size	.08 – .15 mm <sup>2</sup>

Usage Conditions

Operating Temperature Range	-65 – 105 °C[-85 – 221 °F]
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Operation/Application

Circuit Application	Signal
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Industry Standards

CSA File Number	LR 7189
UL File Number	E28476
UL Rating	Recognized
Agency/Standard	CSA, UL
UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Quantity	50
Packaging Method	Box & Tube, Tube

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 2019 (197) Candidate List Declared Against: JAN 2019 (197)
Halogen Content	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
Solder Process Capability	Not applicable for solder process capability



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



Ribbon Cable Connectors  
(59)



Ribbon Connector  
Accessories(1)

Also in the Series | AMP-LATCH - NOVO



Ribbon Cable Connectors  
(47)



Ribbon Connector  
Accessories(10)

Customers Also Bought



TE Part #1658622-6  
26 NOVO MIL/CTR 30DP,  
LEAD FREE



TE Part #102387-4  
20 MODIV HSG COMP DR  
.100 POL



TE Part #1658622-3  
16 NOVO MIL/CTR 30DP,  
LEAD FREE



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

20 NOVO MIL/CTR 30DP,LEAD FREE

TE Part # 1658622-4  
TE Internal #: 1658622-4



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



TE Part #499252-3  
026 STRAIN RELIEF A-L  
RCPT



TE Part #102387-3  
16 MODIV HSG COMP DR  
.100 POL



TE Part #66504-3  
20 DF SCKT CONT



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



TE Part #499252-5  
010 STRAIN RELIEF A-L  
RCPT

Documents

Product Drawings

20 NOVO MIL/CTR 30DP,LEAD FREE

English

CAD Files

Customer View Model

ENG\_CVM\_CVM\_1658622-4\_B.2d\_dxf.zip

English

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_1658622-4\_B.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_1658622-4\_B.3d\_stp.zip

English

Datasheets & Catalog Pages

Ribbon Cable Interconnect Solutions

English

Product Specifications

Application Specification

English

Product Environmental Compliance

TE Material Declaration

English



Instruction Sheets

Instruction Sheet (U.S.)

English

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Agency Approvals

Agency Approval Document

English