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MALE-ON-WIRE CONNECTOR



Connector System: **Cable-to-Board**

Number of Positions: **20**

Centerline (Pitch): **1.27 mm [.05 in]**

PCB Mount Retention: **Without**

PCB Mount Orientation: **Vertical**

All MALE-ON-WIRE CONNECTOR (18)

Features

Product Type Features

Connector Type	Connector Assembly
Ribbon Cable Connector Type	Male-On-Wire
Ribbon Cable Connector Header Type	Shrouded
Connector Product Type	Connector Assembly
Connector System	Cable-to-Board
Connector & Housing Type	Plug
Connector & Contact Terminates To	Wire & Cable

Configuration Features

Compatible With Wire & Cable Type	Ribbon Cable
Number of Positions	20
PCB Mount Orientation	Vertical
Number of Rows	2

Electrical Characteristics

Insulation Resistance	1000 MΩ
Operating Voltage	100 VAC

Body Features



Daisy Chain	With
Connector Profile	Standard

Contact Features

Mating Tab Width	.7 mm[.028 in]
Mating Tab Thickness	.4 mm[.016 in]
Contact Type	Pin
Wire Contact Termination Area Plating Material Thickness	3 – 5 µm[118.11 – 196.85 µin]
Wire Contact Termination Area Plating Material Finish	Matte
Wire Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material Thickness	3 – 5 µm[118.11 – 196.85 µin]
Contact Mating Area Plating Material	Tin
PCB Contact Termination Area Plating Material Finish	Matte
Contact Underplating Material	Nickel
PCB Contact Termination Area Plating Material	Tin
Contact Base Material	Phosphor Bronze
Contact Current Rating (Max)	1.5 A

Termination Features

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

Mechanical Attachment

Mating Alignment	With
Contact Retention Type Within Housing	Press-Fit
PCB Mount Alignment	Without
PCB Mount Retention	Without
Mating Alignment Type	Polarization
Mating Retention	With
Mating Retention Type	Contact Friction
Connector Mounting Type	Cable Mount (Free-Hanging)

Housing Features

Housing Material	PBT GF
Housing Color	Red
Centerline (Pitch)	1.27 mm[.05 in]



Dimensions

Connector Length	28.9 mm[1.138 in]
Connector Height	6.8 mm[.27 in]
Accepts Wire Insulation Diameter Range	.8 – 1 mm[.035 – .039 in]
Wire Size	.08 – .09 mm²
Row-to-Row Spacing	2 mm[.059 in]

Usage Conditions

Operating Temperature Range	-40 – 105 °C[-40 – 221 °F]
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Operation/Application

Circuit Application	Signal
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Industry Standards

UL Rating	Recognized
UL File Number	E28476
Agency/Standard	UL
UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Quantity	2500
Packaging Method	Reel

Product Compliance

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

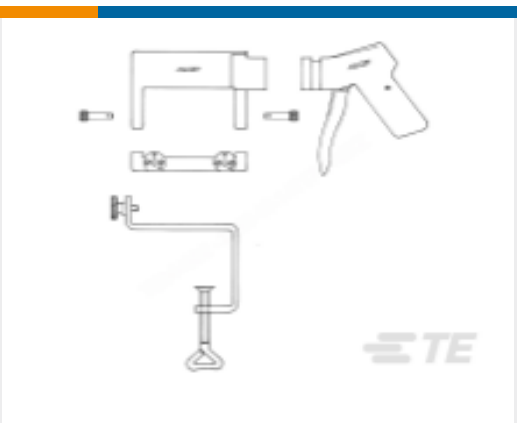
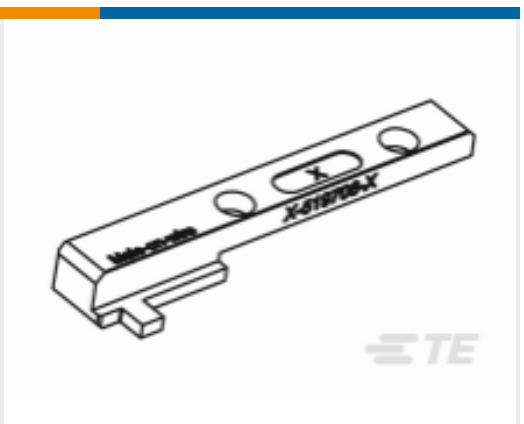
EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JAN 2021 (211) Candidate List Declared Against: JAN 2021 (211) Does not contain REACH SVHC
Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
Solder Process Capability	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 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-M5833-F3492A FEMALE-ON-BOARD CONNECTOR TOP ENTRY	 TE Part # 9-215460-0 MICRO-MATCH FSID P	 TE Part # 2-215460-0 MICRO-MATCH FEM.SE	 TE Part # 2-338070-0 MICRO-MATCH FEM.SE
 TE Part # 9-188431-0 M-MATCH FEM. BOTTOM ENTRY SMD INB.CONN.	 TE Part # 2-100400-0 MICRO-MATCH FSID NP	 TE Part # 9-100400-0 MICRO-MATCH FSID NP	 TE Part # 734155-1 TOOLING KIT ASSY.
 TE Part # 734024-1 ADAPTER (MICROMATCH)	 TE Part # 2-167019-0 20P. RIBBCBL 28AWG P1.27	 TE Part # 519708-1 TERMINATION PUSHER	 TE Part # 677412-4 SEMI AUTO.MACHINE, MICRO- MATCH, 4-24 POS

Also in the Series | Micro-MaTch Industrial



Board-to-Board Headers & Receptacles(1)



Insertion & Extraction Tools(1)



Pluggable I/O Cable Assemblies(52)



Ribbon Cable Connectors(204)



Wire-to-Board Connector Contacts(4)

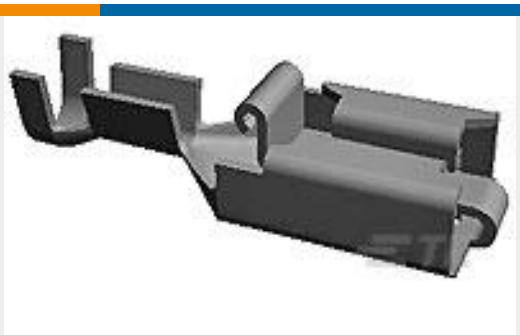
Customers Also Bought



TE Part #166054-1
D-Sub Connector Contacts: Pin, Brass, Signal, Size 20



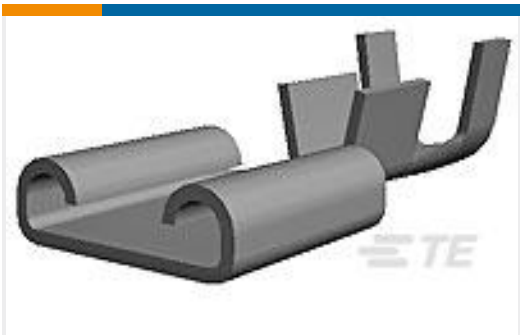
TE Part #1-215083-6
MALE-ON-WIRE CONNECTOR



TE Part #160831-3
250 PL MKI REC. 17-13AWG TPBR



TE Part #926884-1
UNIV.M-N-L.SOCKET



TE Part #140760-2
250 FASTON,REC.,22-18 AWG,TPPB



TE Part #166500-2
RING TONGUE TERMINAL



TE Part #144270-4
HE13/HE14 IDC Receptacle, SRRA, AWG24

Documents

Product Drawings
MICRO-MATCH MOW.20P

English

CAD Files
3D PDF
3D
Customer View Model
ENG_CVM_CVM_2-215083-0_U.2d_dxf.zip



English

Customer View Model

[ENG_CVM_CVM_2-215083-0_U.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2-215083-0_U.3d_stp.zip](#)

English

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Datasheets & Catalog Pages

[Micro-MaTch Catalog](#)

English

[Ribbon Cable Interconnect Solutions](#)

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[Centerline Micro-Match Connector Series](#)

English

Product Specifications

[Application Specification](#)

English

[micro match miniature connector system](#)

English

Product Environmental Compliance

[MD_2-215083-0_03162018235_dmtec](#)

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[MD_2-215083-0_03162018235_dmtec](#)

English

Agency Approvals

[UL Report](#)

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