Micro-MaTch | Micro-MaTch Industrial

TE Internal #: 9-215460-0

Ribbon Cable Connectors, Cable-to-Board, 20 Position, 2.54 mm [.1 in] Centerline, Right Angle, Through Hole - Solder, 2 Row, Micro-

MaTch Industrial

View on TE.com >



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



Connector System: Cable-to-Board

Number of Positions: 20

Centerline (Pitch): 2.54 mm [.1 in]
PCB Mount Retention: With

PCB Mount Retention Type: Kinked Legs

Features

Product Type Features

Ribbon Cable Connector Type	Female-on-Board
Connector Product Type	Connector Assembly
Connector System	Cable-to-Board
Connector & Housing Type	Receptacle
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

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

Electrical Characteristics

Insulation Resistance	1000 ΜΩ
Operating Voltage	100 VAC

Body Features

Primary Product Color	Red
Connector Profile	Standard

Contact Features

PCB Contact Termination Area Plating Material Thickness	3 – 5 μm[118.11 – 196.85 μin]
Contact Layout	Staggered



Contact Mating Area Plating Material Thickness 3 – 5 um/118.11 – 196.85 µin! Contact Mating Area Plating Material PCB Contact Lomination Area Plating Material Finish Contact Mating Area Plating Material Finish Matte Contact Underplating Material Finish Contact Underplating Material PCB Contact Termination Area Plating Material PCB Contact Termination Area Plating Material Contact Base Material Contact Base Material Contact Base Material Contact Current Rating (Max) 15 A Termination Features Termination Method to Printed Circuit Board Methanical Attachment Methanical Attachment With PCB Mount Alignment Without PCB Mount Resention PCB Mount Resention PCB Mount Resention PCB Mount Resention Without Connector Mounting Type Polarization Without Connector Mounting Type Board Mount Housing Features Mating Material Contentine (Pitch) 2.84 mm].1 inj Dimensions Row-to-Row-Soucing 1.5 mm].059 inj Usage Conditions Operating Temperature Range 40 – 105 °C[-40 – 221 °F] Operating Temperature Range Agency/Standards UL UL Lating Recognized Agency/Standard UL		
Contact Mating Area Plating Material PCB Contact Termination Area Plating Material Finish Matte Contact Mating Area Plating Material Finish Matte Contact Underplating Material PCB Contact Termination Area Plating Material PCB Contact Termination Area Plating Material PCB Contact Termination Area Plating Material Phosphor Bronze Contact Current Rating (Max) 1.5 A Termination Features Termination Features Termination Method to Printed Circuit Board Mechanical Attachment Meting Alignment Without PCB Mount Alignment Without PCB Mount Retention With PCB Mount Retention Without PCB Mount Retention Without Connector Mounting Type Polarization Mating Alignment Type Polarization Mating Retention Side Housing Features Mating Fritry Location Housing Material Centerline (Pitch) Dimensions Row-to-Row Specing 1.5 num[.1 in] Dimensions Row-to-Row Specing 1.5 num[.059 in] Usage Conditions Operating Temperature Range A0 – 105 "CI-40 – 221 "T] Operation/Application Circuit Application Signal Industry Standards UI Rating Recognized	Contact Type	Receptacle
PCB Contact Termination Area Plating Material Finish Contact Mating Area Plating Material Finish Matte Contact Underplating Material PCB Contact Termination Area Plating Material Tin Contact Base Material Contact Current Rating (Max) 1.5 A Termination Features Termination Method to Printed Circuit Board Mechanical Attachment Mating Alignment With PCB Mount Alignment With PCB Mount Retention PCB Mount Retention Type Mating Alignment Type Mating Alignment Type Polarization Mating Retention Without Connector Mounting Type Board Mount Housing Features Mating Entry Location Housing Material Centerline (Pitch) Dimensions Rew to Row Spacing Usage Conditions Operating Temperature Range Operating Temperature Range Operating Temperature Range Nating Alignment Signal Industry Standards UL Rating Recognized		
Contact Mating Area Plating Material Finish Nickel Contact Underplating Material Nickel PCR 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 Roard Through Hole - Solder Mechanical Attachment Mating Alignment Without PCB Mount Alignment Without PCB Mount Retention Type Kinked Legs Mating Alignment Type Polarization Mating Alignment Type Board Mount Housing Features Mating Features Mating Features Mating Finity Location Side Housing Material Glass Filled PBT Centerline (Pitch) 2:54 mm[.1 in] Dimensions Row-to-Row Spacing 1.5 mm, 059 in] Usage Conditions Operating Temperature Range 40 – 105 "C[-40 – 221 "F] Operation/Application Gircuit Application Industry Standards UL Rating Recognized		Tin
Contact Underplating Material PCB Contact Termination Area Plating Material Contact Base Material Contact Base Material Contact Current Rating (Max) 1.5 A Termination Features Termination Method to Printed Circuit Board Mechanical Attachment Mating Alignment Mating Alignment PCB Mount Alignment PCB Mount Retention PCB Mount Retention Type Mating Alignment Type Mating Alignment Type Polarization Mating Resention Without Connector Mounting Type Board Mount Housing Features Mating Entry Location Itousing Material Centerline (Pitch) Side Touring Material Centerline (Pitch) 1.5 mm (.059 in) Usage Conditions Operating Temperature Range 40 - 105 °C (40 - 221 °F) Circuit Application Circuit Application Signal Industry Standards UL Rating Recognized		Matte
PCB Contact Termination Area Plating Material Contact Current Rating (Max) 1.5 A Termination Features Termination Method to Printed Circuit Roard Mechanical Attachment Mating Alignment PCB Mount Alignment PCB Mount Retention Mating Alignment I ype Mating Alignment I ype Mating Alignment I ype Mount Retention Mating Retention Without Connector Mounting Type Mating Features Mating Entry Location Housing Features Mating Entry Location Side Housing Material Centerline (Pitch) Dimensions Row to Row Spacing Usage Conditions Operating Lemperature Range Alignment Signel Industry Standards Ul. Rating Recognized	Contact Mating Area Plating Material Finish	Matte
Contact Base Material Phosphor Bronze Contact Current Rating (Max) 1.5 A Termination Features Termination Method to Printed Circuit Board Through Hole - Solder Mechanical Attachment Mating Alignment With PCB Mount Alignment With PCB Mount Retention With PCB Mount Retention Type Kinked Legs Mating Alignment Type Polarization Mating Retention Without Connector Mounting Type Board Mount Housing Features Mating Features Mating Entry Location Side Housing Material Glass Filled PBT Centerline (Pitch) 2.54 mm[.1 in] Dimensions Row-to-Row Spacing 1.5 mm[.059 in] Usage Conditions Operating Temperature Range -40 –105 °C[-40 – 221 °F] Operation/Application Circuit Application Signal Industry Standards UL Rating Recognized	Contact Underplating Material	Nickel
Termination Features Termination Method to Printed Circuit Board Through Hole - Solder Mechanical Attachment Mating Alignment Without PCB Mount Alignment Without PCB Mount Retention With PCB Mount Retention Type Kinked Legs Mating Alignment Type Polarization Mating Retention Without Connector Mounting Type Board Mount Housing Features Mating Entry Location Side Housing Material Glass Filled PBT Centerline (Pitch) 2.54 mm[.1 in] Dimensions Row-to-Row Spacing 1.5 mm[.059 in] Usage Conditions Operating Temperature Range -40 – 105 °C[-40 – 221 °F] Operation/Application Circuit Application Signal Industry Standards UL Rating Recognized	PCB Contact Termination Area Plating Material	Tin
Termination Features Termination Method to Printed Circuit Board Mechanical Attachment Mating Alignment Without PCB Mount Alignment Without PCB Mount Retention Type Kinked Legs Mating Alignment Type Polarization Mating Retention Without Connector Mounting Type Board Mount Housing Features Mating Entry Location Side Housing Material Glass Filled PBT Centerline (Pitch) 2.51 mm[.1 in] Dimensions Row-to-Row Spacing 1.5 mm[.059 in] Usage Conditions Operating Temperature Range 40 – 105 °CI 40 – 221 °FI Operation/Application Circuit Application Signal Industry Standards UL Rating Recognized	Contact Base Material	Phosphor Bronze
Termination Method to Printed Circuit Board Mechanical Attachment Mating Alignment With PCB Mount Alignment Without PCB Mount Retention With PCB Mount Retention Type Kinked Legs Mating Alignment Type Polarization Mating Alignment Type Board Mount Connector Mounting Type Board Mount Housing Features Mating Entry Location Side Housing Material Glass Filled PBT Centerline (Pitch) 2.54 mm[.1 in] Dimensions Row-to-Row Spacing 1.5 mm[.059 in] Usage Conditions Operating Temperature Range -40 – 105 °C[-40 – 221 °F] Operation/Application Circuit Application Signal Industry Standards UL Rating Recognized	Contact Current Rating (Max)	1.5 A
Mechanical Attachment Mating Alignment PCB Mount Alignment PCB Mount Retention PCB Mount Retention Type Mating Alignment Type Mating Alignment Type Polarization Mating Retention Connector Mounting Type Board Mount Housing Features Mating Entry Location Flousing Material Centerline (Pitch) Dimensions Row-to-Row Spacing Usage Conditions Operating Temperature Range August Alignment Type August Alignment Type Mouth Housing Material Glass Filled PBT Centerline (Pitch) Dimensions Row-to-Row Spacing 1.5 mm[.059 in] Usage Conditions Operating Temperature Range August Alignment Gircuit Application Signal Industry Standards UL Rating Recognized	Termination Features	
Mating Alignment PCB Mount Alignment Without PCB Mount Retention With PCB Mount Retention Type Kinked Legs Mating Alignment Type Polarization Without Connector Mounting Type Board Mount Housing Features Mating Entry Location Housing Material Centerline (Pitch) Side Centerline (Pitch) Dimensions Row-to-Row Spacing 1.5 mm[.059 in] Usage Conditions Operating Temperature Range 40 – 105 °C[40 - 221 °F] Operation/Application Circuit Application Signal Industry Standards UL Rating Recognized	Termination Method to Printed Circuit Board	Through Hole - Solder
PCB Mount Alignment PCB Mount Retention With PCB Mount Retention Type Kinked Legs Mating Alignment Type Polarization Mating Retention Without Connector Mounting Type Board Mount Housing Features Mating Entry Location Housing Material Glass Filled PBT Centerline (Pitch) Dimensions Row-to-Row Spacing 1.5 mm[.059 in] Usage Conditions Operating Temperature Range -40 – 105 °C[-40 – 221 °F] Operation/Application Circuit Application Industry Standards UL Rating Recognized	Mechanical Attachment	
PCB Mount Retention Type Kinked Legs Mating Alignment Type Polarization Mating Retention Without Connector Mounting Type Board Mount Housing Features Mating Entry Location Side Housing Material Glass Filled PBT Centerline (Pitch) 2.54 mm[.1 in] Dimensions Row-to-Row Spacing 1.5 mm[.059 in] Usage Conditions Operating Temperature Range 40 – 105 °C[40 – 221 °F] Operation/Application Circuit Application Signal Industry Standards UL Rating Retention Without Legs Kinked	Mating Alignment	With
PCB Mount Retention Type Mating Alignment Type Polarization Without Connector Mounting Type Board Mount Housing Features Mating Entry Location Side Housing Material Centerline (Pitch) Centerline (Pitch) Centerline (Posphing) Spacing Spac	PCB Mount Alignment	Without
Mating Alignment Type Mating Retention Without Connector Mounting Type Board Mount Housing Features Mating Entry Location Side Housing Material Glass Filled PBT Centerline (Pitch) 2.54 mm[.1 in] Dimensions Row-to-Row Spacing 1.5 mm[.059 in] Usage Conditions Operating Temperature Range -40 – 105 °C[-40 – 221 °F] Operation/Application Circuit Application Industry Standards UL Rating Recognized	PCB Mount Retention	With
Mating Retention Without Connector Mounting Type Board Mount Housing Features Mating Entry Location Side Housing Material Glass Filled PBT Centerline (Pitch) 2.54 mm[.1 in] Dimensions Row-to-Row Spacing 1.5 mm[.059 in] Usage Conditions Operating Temperature Range -40 – 105 °C[-40 – 221 °F] Operation/Application Circuit Application Industry Standards UL Rating Recognized	PCB Mount Retention Type	Kinked Legs
Connector Mounting Type Housing Features Mating Entry Location Housing Material Centerline (Pitch) Dimensions Row-to-Row Spacing Usage Conditions Operating Temperature Range Circuit Application Circuit Application Industry Standards UL Rating Board Mount Board Mount Board Mount Side Housing Features Side Glass Filled PBT 2.54 mm[.1 in] Dimensions 1.5 mm[.059 in] Value Conditions Signal Recognized	Mating Alignment Type	Polarization
Housing Features Mating Entry Location Side Housing Material Glass Filled PBT Centerline (Pitch) 2.54 mm[.1 in] Dimensions Row-to-Row Spacing 1.5 mm[.059 in] Usage Conditions Operating Temperature Range -40 – 105 °C[-40 – 221 °F] Operation/Application Circuit Application Signal Industry Standards UL Rating Recognized	Mating Retention	Without
Mating Entry Location Housing Material Centerline (Pitch) Dimensions Row-to-Row Spacing 1.5 mm[.059 in] Usage Conditions Operating Temperature Range Operation/Application Circuit Application Side Glass Filled PBT 2.54 mm[.1 in] 1.5 mm[.059 in] Signal Industry Standards UL Rating Recognized	Connector Mounting Type	Board Mount
Housing Material Centerline (Pitch) 2.54 mm[.1 in] Dimensions Row-to-Row Spacing 1.5 mm[.059 in] Usage Conditions Operating Temperature Range -40 – 105 °C[-40 – 221 °F] Operation/Application Circuit Application Signal Industry Standards UL Rating Recognized	Housing Features	
Centerline (Pitch) 2.54 mm[.1 in] Dimensions Row-to-Row Spacing 1.5 mm[.059 in] Usage Conditions Operating Temperature Range -40 – 105 °C[-40 – 221 °F] Operation/Application Circuit Application Signal Industry Standards UL Rating Recognized	Mating Entry Location	Side
Dimensions Row-to-Row Spacing 1.5 mm[.059 in] Usage Conditions Operating Temperature Range -40 – 105 °C[-40 – 221 °F] Operation/Application Circuit Application Signal Industry Standards UL Rating Recognized	Housing Material	Glass Filled PBT
Row-to-Row Spacing 1.5 mm[.059 in] Usage Conditions Operating Temperature Range -40 – 105 °C[-40 – 221 °F] Operation/Application Circuit Application Signal Industry Standards UL Rating Recognized	Centerline (Pitch)	2.54 mm[.1 in]
Usage Conditions Operating Temperature Range -40 – 105 °C[-40 – 221 °F] Operation/Application Circuit Application Signal Industry Standards UL Rating Recognized	Dimensions	
Operating Temperature Range -40 – 105 °C[-40 – 221 °F] Operation/Application Circuit Application Industry Standards UL Rating Recognized	Row-to-Row Spacing	1.5 mm[.059 in]
Operation/Application Signal Circuit Application Signal Industry Standards Recognized	Usage Conditions	
Circuit Application Industry Standards UL Rating Recognized	Operating Temperature Range	-40 - 105 °C[-40 - 221 °F]
Industry Standards UL Rating Recognized	Operation/Application	
UL Rating Recognized	Circuit Application	Signal
	Industry Standards	
Agency/Standard UL	UL Rating	Recognized
	Agency/Standard	UL



Approved Standards	UL E28476
UL Flammability Rating	UL 94V-0
Packaging Features	
Packaging Quantity	250
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: JUNE 2023 (235) Candidate List Declared Against: JAN 2023 (233) 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 # CAT-M5833-M2934 Male-on-Board Connector, Micro-MaTch



Male-on-Wire Connector, Micro-MaTch



Also in the Series | Micro-MaTch Industrial



Board-In Connectors(20)



Insertion & Extraction Tools(1)



PCB Headers & Receptacles(1)



Pluggable I/O Cable Assemblies(52)



Ribbon Cable Connectors(185)



Wire-to-Board Connector Contacts(4)

Customers Also Bought







Paddle Board Connector

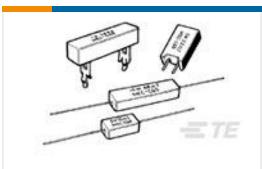


TE Part #9-215083-0 MICRO-MATCH MOW.20P





TE Part #1676362-2 RN 0805 4K87 0.1% 10PPM 1KRL



TE Part #1-1623788-6 SQM5 4R7 5% (WIRE)





Ribbon Cable Connectors, Cable-to-Board, 20 Position, 2.54 mm [.1 in] Centerline, Right Angle, Through Hole - Solder, 2 Row, Micro-MaTch Industrial



TE Part #9-1768032-4 LEB-0415P-9

Documents

Product Drawings

MICRO-MATCH FSID P

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_9-215460-0_J.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_9-215460-0_J.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_9-215460-0_J.3d_stp.zip

English

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

Datasheets & Catalog Pages

Micro-MaTch Catalog

English

Ribbon Cable Interconnect Solutions

English

Centerline Micro-Match Connector Series

English

Product Specifications

Product Specification

English

Product Environmental Compliance

MD_9-215460-0_03142018936_dmtec

English

MD_9-215460-0_03142018936_dmtec

English

Ribbon Cable Connectors, Cable-to-Board, 20 Position, 2.54 mm [.1 in] Centerline, Right Angle, Through Hole - Solder, 2 Row, Micro-MaTch Industrial



Agency Approvals
UL Report

English