



Micro-MaTch | Micro-MaTch Industrial

TE Internal #: 9-215083-0

Ribbon Cable Connectors, Cable-to-Board, 20 Position, .05 in [1.27 mm] Centerline, Vertical, Through Hole - Solder, Micro-MaTch Industrial

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

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 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 (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 mm ² |
| Row-to-Row Spacing | 2 mm[.059 in] |

Usage Conditions

| | |
|-----------------------------|----------------------------|
| Operating Temperature Range | -40 – 105 °C[-40 – 221 °F] |
|-----------------------------|----------------------------|

Operation/Application

| | |
|---------------------|--------|
| Circuit Application | Signal |
|---------------------|--------|

Industry Standards

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

Packaging Features

| | |
|--------------------|--------------|
| Packaging Quantity | 250 |
| Packaging Method | Box & Carton |

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 2022 (224) Candidate List Declared Against: JAN 2022 (223) SVHC > Threshold: Not Yet Reviewed |
| 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

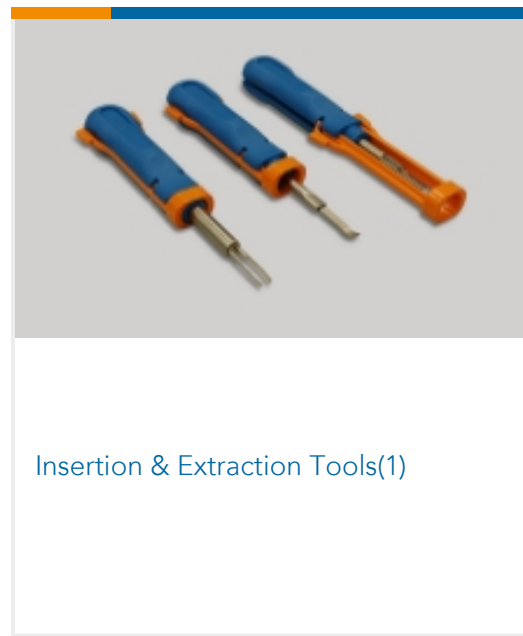


TE Part # 677412-4
SEMI AUTO.MACHINE, MICRO-
MATCH, 4-24 POS

Also in the Series | **Micro-MaTch Industrial**



Board-In Connectors(20)



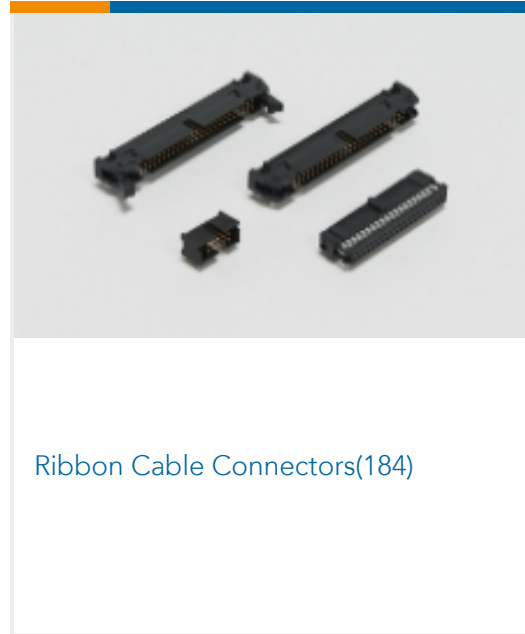
Insertion & Extraction Tools(1)



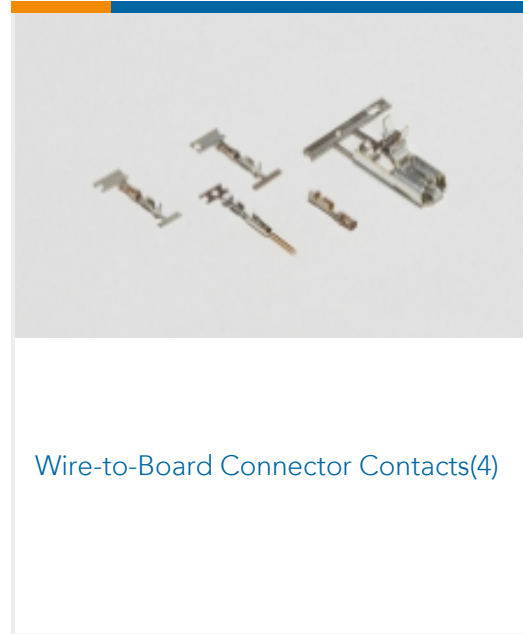
PCB Headers & Receptacles(1)



Pluggable I/O Cable Assemblies(52)



Ribbon Cable Connectors(184)



Wire-to-Board Connector Contacts(4)

Customers Also Bought



TE Part #9-215570-0
MICRO-MATCH PBC.20P



TE Part #7-215083-4
MICRO-MATCH MOW.04P



TE Part #1-1241408-3
AMP MCP 6.3/4.8K, CONTACT



TE Part #3823813001
44A0121-16-0/9



TE Part #2371244-1
SWS,DIA 4MM,ICT CVE



TE Part #2371245-1
SOC CONN CVR,3POS,DIA 4MM,ICT CVE



TE Part #1-2349177-1
DIA 4MM,PIN TERMINAL,FAM SLD,CB



TE Part #1-2349180-1
DIA 4MM,TERMINAL,FAM SLD,CB



TE Part #5-2198617-1
Pltd Plastic Backshell 9 way Str, KIT

Documents



Product Drawings

MICRO-MATCH MOW.20P

English

CAD Files

3D PDF

3D

Customer View Model

[ENG_CVM_CVM_9-215083-0_U.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_9-215083-0_U.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_9-215083-0_U.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

Application Specification

English

[micro match miniature connector system](#)

English

Product Environmental Compliance

[MD_9-215083-0_031420181024_dmtec](#)

English

[MD_9-215083-0_031420181024_dmtec](#)

English

Agency Approvals

UL Report

English