

2-188275-0  ACTIVE

[Micro-MaTch](#) | [Micro-MaTch Industrial](#)

TE Internal #: 2-188275-0

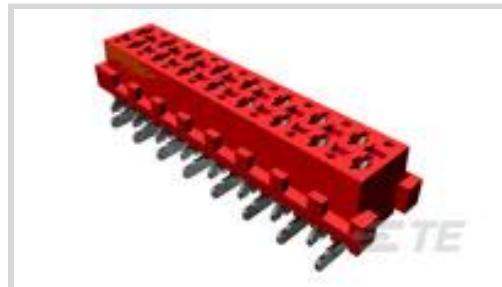
Board-to-Board, 20 Position, 1.27 mm [.05 in] Centerline, Vertical, Surface Mount, 2 Row, Receptacle, Micro-MaTch Industrial, Ribbon Cable Connectors

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

Female-on-Board Connector, Top Entry



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

Number of Positions: **20**

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

PCB Mount Retention: **Without**

PCB Mount Orientation: **Vertical**

[All Female-on-Board Connector, Top Entry \(67\)](#)

## Features

### Electrical Characteristics

|                       |         |
|-----------------------|---------|
| Operating Voltage     | 100 VDC |
| Insulation Resistance | 1000 MΩ |

### Industry Standards

|   |            |
|---|------------|
| Compatible With Agency/Standards Products   | UL         |
| UL Rating                                   | Recognized |
| UL Flammability Rating                      | UL 94V-0   |
| Compatible With Approved Standards Products | UL E28476  |

### Packaging Features

|                    |      |
|--------------------|------|
| Packaging Quantity | 900  |
| Packaging Method   | Reel |

### Operation/Application

|                        |                |
|------------------------|----------------|
| Solder Process Feature | Board Standoff |
| Circuit Application    | Signal         |

### Contact Features

|  |        |
|--|--------|
| Contact Underplating Material                        | Nickel |
| PCB Contact Termination Area Plating Material Finish | Matte  |

|   |   |
|---|---|
| Contact Mating Area Plating Material Thickness          | 3 – 5 $\mu\text{m}$ [118.11 – 196.85 $\mu\text{in}$ ] |
| Contact Shape & Form                                    | Dual Beam   |
| PCB Contact Termination Area Plating Material Thickness | 3 – 5 $\mu\text{m}$ [118.11 – 196.85 $\mu\text{in}$ ] |
| Contact Mating Area Plating Material                    | Tin   |
| Contact Base Material                                   | Phosphor Bronze                                       |
| PCB Contact Termination Area Plating Material           | Tin   |
| Contact Type  | Socket  |
| Contact Current Rating (Max)                            | 1.5 A   |

#### Body Features

|                       |          |
|-----------------------|----------|
| Daisy Chain           | Without  |
| Primary Product Color | Red      |
| Connector Profile     | Standard |

#### Dimensions

|                    |                   |
|--------------------|-------------------|
| Connector Height   | 5.3 mm[.21 in]    |
| Connector Length   | 27.4 mm[1.078 in] |
| Row-to-Row Spacing | 2 mm[.059 in]     |

#### Termination Features

|   |                 |
|---|-----------------|
| Rectangular Termination Post & Tail Width     | .75 mm[.029 in] |
| Rectangular Termination Post & Tail Thickness | .25 mm[.01 in]  |
| Termination Method to PCB                     | Surface Mount   |

#### Mechanical Attachment

|                                       |                  |
|---------------------------------------|------------------|
| Contact Retention Type Within Housing | Press-Fit        |
| Mating Alignment                      | With             |
| PCB Mount Alignment                   | Without          |
| PCB Mount Retention                   | Without          |
| Mating Alignment Type                 | Polarization     |
| Mating Retention                      | With             |
| Mating Retention Type                 | Contact Friction |
| Connector Mounting Type               | Board Mount      |

#### Housing Features

|                       |        |
|-----------------------|--------|
| Mating Entry Location | Top    |
| Housing Material      | PA 4.6 |

Centerline (Pitch)

1.27 mm [.05 in]

**Product Type Features**

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

**Configuration Features**

|                       |          |
|-----------------------|----------|
| Number of Positions   | 20       |
| PCB Mount Orientation | Vertical |
| Number of Rows        | 2        |

**Usage Conditions**

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

**Other**

|                    |           |
|--------------------|-----------|
| EU RoHS Compliance | Compliant |
| EU ELV Compliance  | Compliant |

**Product Compliance**For compliance documentation, visit the product page on [TE.com](http://TE.com)>

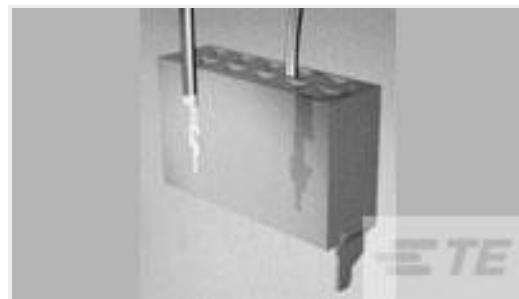
|   |   |
|---|---|
| EU RoHS Directive 2011/65/EU                  | Compliant   |
| EU ELV Directive 2000/53/EC                   | Compliant   |
| China RoHS 2 Directive MIIT Order No 32, 2016 | No Restricted Materials Above Threshold   |
| EU REACH Regulation (EC) No. 1907/2006        | Current ECHA Candidate List: JUNE 2024 (241)<br>Candidate List Declared Against: JUNE 2024 (241)<br>Does not contain REACH SVHC |
| Halogen Content                               | Not Low Halogen - contains Br or Cl > 900 ppm.  |
| Solder Process Capability                     | Reflow solder capable to 260°C  |

## Product Compliance Disclaimer

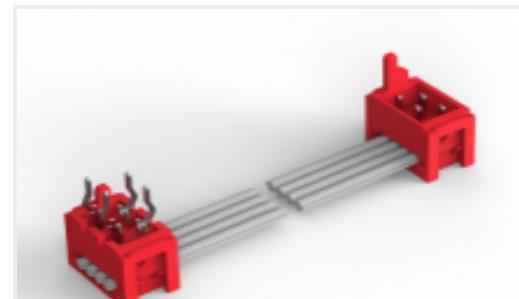
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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



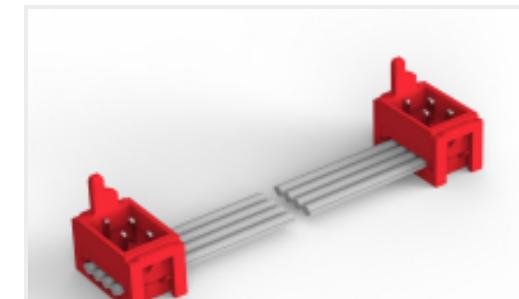
TE Part # 2-338095-0  
MICRO-MATCH COSI HSG



TE Part # CAT-M5833-C1121A  
MICRO-MATCH STD PB TO MOW  
CABLE ASSY



TE Part # CAT-M5833-M2934A  
Male-on-Wire Connector, Micro-MaTch



TE Part # CAT-M5833-C1121  
MICRO-MATCH STD MOW TO MOW  
CABLE ASSY

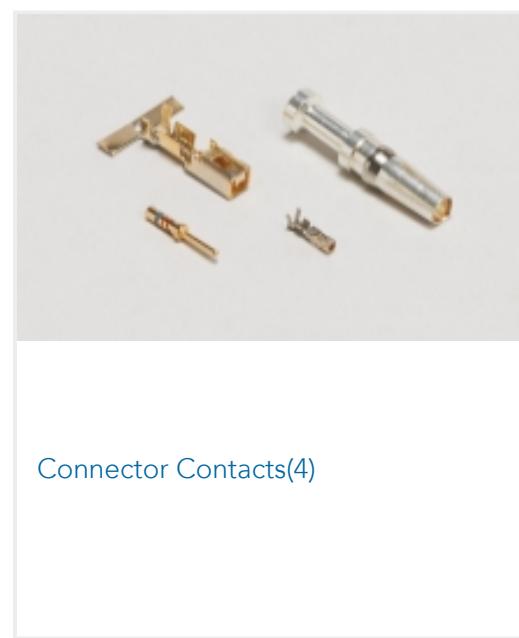


TE Part # CAT-M5833-M2934  
Male-on-Board Connector, Micro-  
MaTch

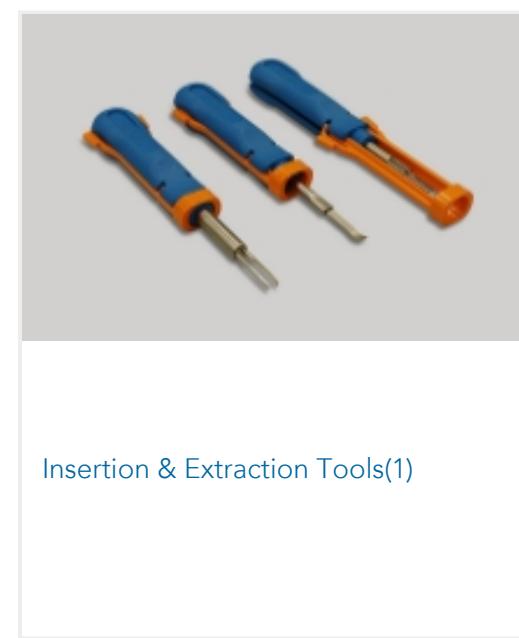
## Also in the Series | Micro-MaTch Industrial



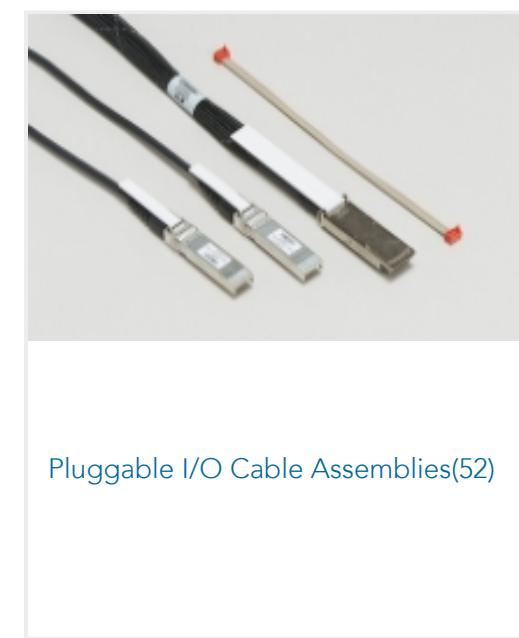
Board-In Connectors(20)



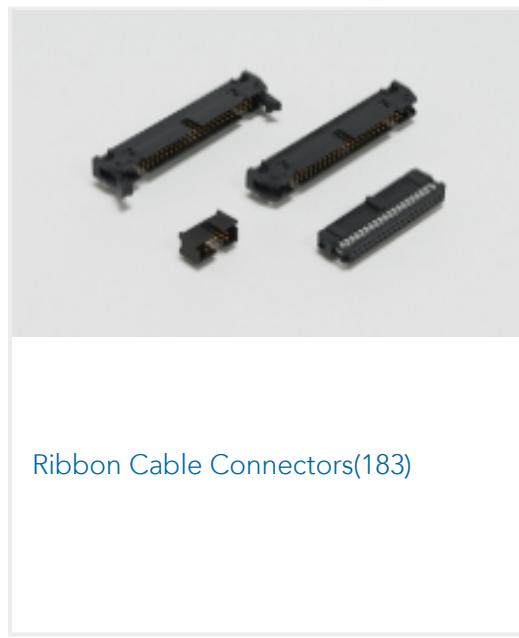
Connector Contacts(4)



Insertion & Extraction Tools(1)



Pluggable I/O Cable Assemblies(52)

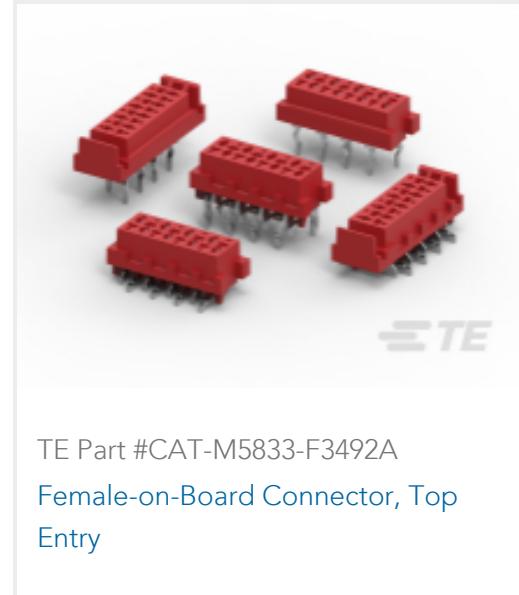


Ribbon Cable Connectors(183)

## Customers Also Bought



TE Part #1761028-4  
68 50SR R/A RCPT ASSY, LEAD FREE



TE Part #CAT-M5833-F3492A  
Female-on-Board Connector, Top Entry



TE Part #292206-4  
MINI CT SGL DIP H 4P NAT



TE Part #1217332-1  
187 FASTON, PCB TAB, TCBR



TE Part #2176349-5  
CRGCQ 2512 22R 1%



TE Part #1565804-1  
025 G 8POS CAP ASSY W TO W



TE Part #1-2208265-1  
POF,FO PIGTAIL,MOST,FO HEADER, ASSY



TE Part #2306073-2  
18POS,TAB0.63X0.63,HDR ASSY,90 DEG,SLDR



TE Part #2306247-1  
32POS,TAB0.63X0.63,HDR ASSY,  
180DEG,SLDR

## Documents

### Product Drawings

#### MICRO-MATCH SMD FTE

English

### CAD Files

#### Customer View Model

[ENG\\_CVM\\_CVM\\_2-188275-0\\_U.2d\\_dxf.zip](#)

English

### 3D PDF

3D

#### Customer View Model

[ENG\\_CVM\\_CVM\\_2-188275-0\\_U.3d\\_igs.zip](#)

English

#### Customer View Model

[ENG\\_CVM\\_CVM\\_2-188275-0\\_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

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### Product Specifications

#### [Application Specification](#)

English