



Connectors > Rectangular Connectors > Standard Rectangular Connectors



Product Type: **Socket Insert with PC Tail Contacts**

Connector Style: **Plug/Receptacle**

Mating Alignment Type: **Keyed**

PCB Mount Retention: **Without**

PCB Mount Orientation: **Right Angle**

Features

Product Type Features

|                                   |                                     |
|-----------------------------------|-------------------------------------|
| Product Type                      | Socket Insert with PC Tail Contacts |
| Connector Style                   | Plug/Receptacle                     |
| Connector System                  | Cable-to-Board                      |
| Insertion Force                   | Standard                            |
| Sealable                          | Yes                                 |
| Connector & Contact Terminates To | Printed Circuit Board               |

Configuration Features

|                       |             |
|-----------------------|-------------|
| PCB Mount Orientation | Right Angle |
| Number of Positions   | 20          |
| Number of Rows        | 4           |

Contact Features

|                              |                  |
|------------------------------|------------------|
| Contact Plating Material     | Gold Over Copper |
| Contact Current Rating (Max) | 5 A              |

Termination Features

|                                             |        |
|---------------------------------------------|--------|
| Termination Method to Printed Circuit Board | Solder |
| Termination Method to Wire & Cable          | Crimp  |

Mechanical Attachment

|                       |       |
|-----------------------|-------|
| Mating Alignment Type | Keyed |
|-----------------------|-------|



|                         |             |
|-------------------------|-------------|
| PCB Mount Retention     | Without     |
| Contact Retention       | Clipped     |
| Connector Mounting Type | Board Mount |

Usage Conditions

|                             |                            |
|-----------------------------|----------------------------|
| Operating Temperature Range | -55 – 175 °C[-67 – 347 °F] |
|-----------------------------|----------------------------|

Operation/Application

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

Product Compliance

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

|                                               |                                                                                                |
|-----------------------------------------------|------------------------------------------------------------------------------------------------|
| EU RoHS Directive 2011/65/EU                  | Out of Scope                                                                                   |
| EU ELV Directive 2000/53/EC                   | Out of Scope                                                                                   |
| China RoHS 2 Directive MIIT Order No 32, 2016 | Restricted Materials Above Threshold                                                           |
| EU REACH Regulation (EC) No. 1907/2006        | Current ECHA Candidate List: JAN 2019 (197)<br>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 reviewed 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.

Customers Also Bought





TE Part #2274730-1  
SW RA RCP ASM, 8P, 8C,  
85O, PIC,



TE Part #1888971-4  
QSFP TB CAGE ASSY, W  
/LP, NO HS



TE Part #2007863-1  
IMP100S,H,V5P16C,RG,  
LEW39,4.5



TE Part #2042139-2  
RA Male Connector, IEC L3



TE Part #2198724-1  
CAGEASSY,PRESSFIT,1X6,  
zSFP+



TE Part #2226412-1  
ASSY PIN MODULE, 16-02  
PCB RA, STD



TE Part #4-2170740-1  
QSFP28, 1X3, CAGE ASSY,  
SPRING, HS, LP



TE Part #4-2170740-2  
QSFP28, 1X3, CAGE ASSY,  
SPRING, HS, LP



TE Part #  
ZPF000000000100304  
732-8254-22



TE Part #  
ZPF000000000167184  
732-8311-16

Documents

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_ZPF000000000100306\_1.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_ZPF000000000100306\_1.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_ZPF000000000100306\_1.3d\_stp.zip

English

Datasheets & Catalog Pages

DMC-M Series Single Module EN4165

English

DEUTSCH DMC-M Series Multicavity EN4165 Connectors

English





Product Environmental Compliance  
REACH Substance Communication Document  
English