



Connectors > Pluggable IO Connectors & Cages



Pluggable I/O Product Type: **Cage Assembly**

Sealable: **Yes**

Circuit Application: **Signal**

Operating Temperature Range: **-55 – 105 °C [-67 – 221 °F]**

Data Rate (Max): **14 Gb/s**

Features

Product Type Features

|                                 |               |
|---------------------------------|---------------|
| Thermal Accessory Type Included | Heat Sink     |
| Cage Type                       | Ganged        |
| Pluggable I/O Product Type      | Cage Assembly |
| Sealable                        | Yes           |
| Form Factor                     | QSFP+         |

Configuration Features

|                                     |       |
|-------------------------------------|-------|
| Number of Rear EONs per Port Column | 2     |
| Number of Ports                     | 4     |
| Port Matrix Configuration           | 1 x 4 |

Electrical Characteristics

|                 |         |
|-----------------|---------|
| Data Rate (Max) | 14 Gb/s |
|-----------------|---------|

Body Features

|                        |                |
|------------------------|----------------|
| Heat Sink Finish       | Anodized Black |
|                        | .165 in        |
| Heat Sink Height Class | PCI            |
| Heat Sink Style        | Pin            |

Contact Features

|                                               |     |
|-----------------------------------------------|-----|
| PCB Contact Termination Area Plating Material | Tin |
|-----------------------------------------------|-----|



Termination Features

|                                |                          |
|--------------------------------|--------------------------|
| Termination Post & Tail Length | 2.2 mm[.086 in]          |
| Termination Method to PCB      | Through Hole - Press-Fit |

Housing Features

|               |               |
|---------------|---------------|
| Cage Material | Nickel Silver |
|---------------|---------------|

Dimensions

|                             |                  |
|-----------------------------|------------------|
| PCB Thickness (Recommended) | 1.45 mm[.057 in] |
|-----------------------------|------------------|

Usage Conditions

|                             |                            |
|-----------------------------|----------------------------|
| Operating Temperature Range | -55 – 105 °C[-67 – 221 °F] |
|-----------------------------|----------------------------|

Operation/Application

|                            |                             |
|----------------------------|-----------------------------|
| Pluggable I/O Applications | SFP+ Stacked Belly-to-Belly |
| Circuit Application        | Signal                      |

Industry Standards

|                        |          |
|------------------------|----------|
| UL Flammability Rating | UL 94V-0 |
|------------------------|----------|

Packaging Features

|                  |            |
|------------------|------------|
| Packaging Method | Box & Tray |
|------------------|------------|

Other

|                              |                    |
|------------------------------|--------------------|
| Included Lightpipe           | No                 |
| EMI Containment Feature Type | Elastomeric Gasket |

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 2024 (241)<br>Candidate List Declared Against: JUNE 2022 (224)<br>SVHC > Threshold:<br>Octamethylcyclotetrasiloxane (D4) (.2% in Component)<br><b>Article Safe Usage Statements:</b><br>Wash thoroughly after handling. Recycle if possible and dispose of the article by following all applicable governmental regulations relevant to your geographic location. |

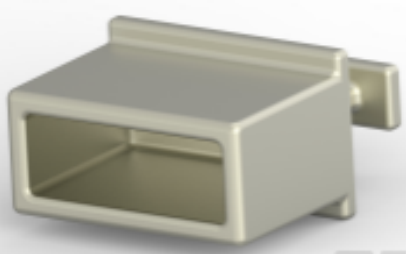
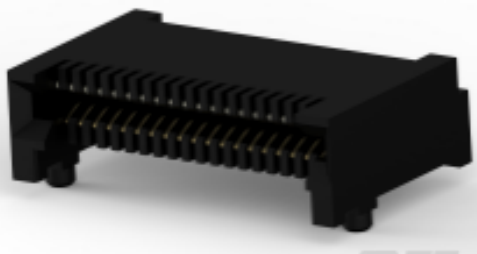


|                           |                                                                                     |
|---------------------------|-------------------------------------------------------------------------------------|
| Halogen Content           | Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free |
| 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

|                                                                                                                                                                      |                                                                                                                                                                        |                                                                                                                                                  |                                                                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>TE Part # CAT-C11-H50111<br/>QSFP-Four SFP+ I/O Cable Assembly<br/>30 AWG</p> |  <p>TE Part # 1888810-2<br/>EMI/Dust Cover,XFP And QSFP</p>                         |  <p>TE Part # 2110819-1<br/>QSFP+ Enh EVERCLEAR PT Conn</p> |  <p>TE Part # 1-2053638-6<br/>C/A, QSFP, 0.5M, P1-P2,<br/>UNEQUALIZED</p> |
|  <p>TE Part # CAT-C11-H5011<br/>QSFP-Four SFP+ I/O Cable Assembly<br/>28 AWG</p>  |  <p>TE Part # CAT-C11-H5011142<br/>QSFP to QSFP I/O Cable Assembly: 33<br/>AWG</p> |  <p>TE Part # 2215057-1<br/>ASSY, SEATING TL, QSFP 1X4</p>  |  <p>TE Part # 2202165-4<br/>QSFP TO QSFP, 26AWG, FDR, 4.0<br/>METER</p>   |
|  <p>TE Part # 2202165-5<br/>QSFP TO QSFP, 26AWG, FDR, 5.0<br/>METER</p>           |  <p>TE Part # 2829040-2<br/>QSFP IB EDR, 33AWG, 1.0M</p>                           |  <p>TE Part # 2829040-4<br/>QSFP IB EDR, 30AWG, 1.0M</p>    |  <p>TE Part # 2829040-6<br/>QSFP IB EDR, 30AWG, 2.0M</p>                  |



TE Part # 2829040-7  
QSFP IB EDR, 26AWG, 2.0M



TE Part # 2829040-8  
QSFP IB EDR, 26AWG, 3.0M



TE Part # 2821033-8  
QSFP TO [4]SFP+, 28G, 1M, 33AWG

Also in the Series | QSFP/QSFP+



Heat Sinks(1)



Light Pipes(8)



Pluggable I/O Cable Assemblies(13)



Pluggable IO Connectors & Cages(154)

Customers Also Bought



TE Part #2110819-1  
QSFP+ Enh EVERCLEAR PT Conn

Documents

Product Drawings

1X4 CAGE ASSEMBLY, THRU BEZEL, W/ GASKET

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_2170287-1\_A.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_2170287-1\_A.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_2170287-1\_A.3d\_stp.zip



English

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Product Specifications

Application Specification

English