



SFP28

TE Internal #: 2169678-5

SFP, SFP+ & zSFP+, Cage Assembly with Integrated Connector, Data Rate (Max) 16 Gb/s, Elastomeric Gasket, SFP+, With Lightpipe, 2 x 5

[View on TE.com >](#)

Connectors > Pluggable IO Connectors & Cages > SFP, SFP+ & zSFP+ > SFP+ Stacked Cage Assemblies



Pluggable I/O Product Type: **Cage Assembly with Integrated Connector**

Data Rate (Max): **16 Gb/s**

EMI Containment Feature Type: **Elastomeric Gasket**

Pluggable I/O Applications: **SFP+**

Lightpipe Options: **With Lightpipe**

[All SFP+ Stacked Cage Assemblies \(125\)](#)

## Features

### Product Type Features

Form Factor	SFP+
Cage Type	Stacked
Pluggable I/O Product Type	Cage Assembly with Integrated Connector
Lightpipe Options	With Lightpipe
Connector System	Cable-to-Board
Sealable	Yes
Connector & Contact Terminates To	Printed Circuit Board

### Configuration Features

Port Matrix Configuration	2 x 5
Lightpipe Configuration	Four Triangular (Inner & Outer)
Number of Ports	10
Number of Positions	200

### Electrical Characteristics

Data Rate (Max)	16 Gb/s
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### Contact Features

Tail Plating Material	Tin
Contact Mating Area Plating Material Thickness	.76 µm



Contact Mating Area Plating Material	Gold or Gold Flash over Palladium Nickel
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### Termination Features

Termination Post & Tail Length	3 mm[.118 in]
Termination Method to Printed Circuit Board	Through Hole - Press-Fit

### Mechanical Attachment

Connector Mounting Type	Board Mount
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### Housing Features

Cage Material	Nickel Silver
Centerline (Pitch)	.8 mm[.032 in]

### Dimensions

PCB Thickness (Recommended)	1.5 mm[.059 in]
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### Usage Conditions

Operating Temperature Range	-55 – 105 °C[-65 – 221 °F]
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### Operation/Application

Heat Sink Compatible	No
Pluggable I/O Applications	SFP+
Circuit Application	Signal

### Industry Standards

UL Flammability Rating	UL 94V-0
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### Packaging Features

Packaging Method	Package
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### Other

EMI Containment Feature Type	Elastomeric Gasket
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### 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: JUNE 2023 (235)  
 SVHC > Threshold:  
 Octamethylcyclotetrasiloxane (D4) (.11% in Component Part)

**Article Safe Usage Statements:**  
 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 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-C11-N490333  
 QSFP28-Four SFP+ Cable Assembly:  
 30 AWG



TE Part # CAT-C11-N490325  
 QSFP28-Four SFP+ Cable Assembly:  
 26 AWG



TE Part # CAT-C11-N4901114  
 SFP28 to SFP28 Cable Assembly: 30  
 AWG



TE Part # CAT-C11-N49011  
 SFP28 to SFP28 Cable Assembly: 26  
 AWG



TE Part # CAT-Q17-N49011  
 QSFP56-Four SFP56 Cable Assembly:  
 30 AWG



TE Part # CAT-Q17-N490333  
 QSFP56-Four SFP56 Cable Assembly:  
 26 AWG



TE Part # 4-2821222-5  
 SFP56 DIRECT ATTACH CA, 2M,  
 30AWG



TE Part # 4-2821224-5  
 SFP56 DIRECT ATTACH CA, 3M,  
 26AWG




TE Part # 4-2334985-2  
SFP56 DIRECT ATTACH CA, 1M,  
32AWG



TE Part # CAT-C11-H5  
SFP+ to SFP+ I/O Cable Assembly: 24  
AWG



TE Part # CAT-C11-H50626  
SFP+ to SFP+ I/O Cable Assembly: 30  
AWG



TE Part # CAT-C11-H506  
SFP+ to SFP+ I/O Cable Assembly: 26  
AWG



TE Part # CAT-C11-H5062  
SFP+ to SFP+ I/O Cable Assembly: 28  
AWG



TE Part # 2334985-2  
SFP28 DIRECT ATTACH CA, 1M,  
32AWG



TE Part # 2018280-6  
KIT, SEAT TL SFP PLUS 2X5



TE Part # 2063048-6  
SFP EXTRACTION KIT ASM, 8 POS



TE Part # 2142970-1  
CABLE ASSY, MICRO SFP+ TO STD  
SFP+, 0.5M



TE Part # 2142970-2  
CABLE ASSY, MICRO SFP+ TO STD  
SFP+, 1M



TE Part # 2142970-3  
CABLE ASSY, MICRO SFP+ TO STD  
SFP+, 2M



TE Part # 2142970-4  
CABLE ASSY, MICRO SFP+ TO STD  
SFP+, 3M

### Customers Also Bought



TE Part #90546-1  
ASSY PRO-CRIMPER UNIV M-N-L



TE Part #1804030-1  
EXTRACTION TOOL ASSY



TE Part #5557730-1  
MJ,TE,8P/8C,SHLD,PNL STOPS&G



TE Part #81543-23  
CONT SOC ASSY




TE Part #104257-7  
08 MTE RCPT HSG SR LATCH .100



TE Part #60422-3  
RING 22-20 AWG NPBR



TE Part #1437624-7  
PK50B1/8=KNOB PLASTIC BLK 1/8



TE Part #6162-213-1677  
CONT SOC ASSY



TE Part #704613-000  
S02-06-R

## Documents

### Product Drawings

[SFP+assy 2x5 Gasket 4 LP Sn](#)

English

### CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_2169678-5\\_B.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2169678-5\\_B.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2169678-5\\_B.3d\\_stp.zip](#)

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

### Product Specifications

[Application Specification](#)

English

### Instruction Sheets

[Instruction Sheet \(U.S.\)](#)

English

[Instruction Sheet \(U.S.\)](#)

English