



SFP28

TE Internal #: 2110759-1

SFP+, Connector, .8mm [.031in] Centerline, Signal, Operating Temperature Range -55 – 85 °C [-67 – 185 °F], Data Rate (Max) 16 Gb/s, 20 Position

[View on TE.com >](#)

Connectors > Pluggable IO Connectors & Cages > SFP Connectors



Pluggable I/O Product Type: **Connector**

Centerline (Pitch): **.8 mm [.031 in ]**

Sealable: **No**

Circuit Application: **Signal**

Operating Temperature Range: **-55 – 85 °C [-67 – 185 °F]**

[All SFP Connectors \(10\)](#)

## Features

### Product Type Features

Pluggable I/O Product Type	Connector
Sealable	No
Form Factor	SFP+

### Configuration Features

Number of Positions	20
---------------------	----

### Electrical Characteristics

Data Rate (Max)	16 Gb/s
-----------------	---------

### Contact Features

Contact Pitch	15 µin
Contact Mating Area Plating Material	Gold
Contact Current Rating (Max)	.5 A

### Termination Features



Termination Method to PCB	Surface Mount
---------------------------	---------------

### Housing Features

Centerline (Pitch)	.8 mm [.031 in]
--------------------	-----------------

### Usage Conditions

Operating Temperature Range	-55 – 85 °C [-67 – 185 °F]
-----------------------------	----------------------------

### Operation/Application

Pluggable I/O Applications	SFP
Circuit Application	Signal

### Industry Standards

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

### Packaging Features

Packaging Method	Reel
------------------	------

### Other

Included Lightpipe	No
--------------------	----

## 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) Candidate List Declared Against: JUNE 2024 (241) Does not contain REACH SVHC
Halogen Content	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
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 # CAT-C11-H50626  
SFP+ to SFP+ I/O Cable Assembly: 30 AWG



TE Part # 2198230-2  
SFP+ Enhanced 1x2, SAN Heatsink



TE Part # 2198230-1  
SFP+ Enhanced 1x2, PCI Heatsink



TE Part # 2198235-3  
SFP+ Enhanced 1x6, Networking Heatsink



TE Part # 2198230-3  
SFP+ Enhanced 1x2, Networking Heatsink



TE Part # 2198234-3  
SFP+ Enhanced 1x4, Net Heatsink, LP



TE Part # 2198233-4  
SFP+ Enhanced 1x4, Net Heatsink, LP



TE Part # CAT-SF59-AC229  
SFP accessories



TE Part # 2149730-3  
SFP+ Enhanced 1x4 Cage, SAN Heatsink



TE Part # 2057086-2  
SFP+ Enhanced 1x1 Cage Assembly



TE Part # 2149730-4  
SFP+ Enhanced 1x4 Cage, Network Heatsink



TE Part # 2057118-1  
SFP+ ENHANCED 1X1 HEATSINK CLIP



TE Part # 2057085-4  
SFP+ 1x1 Enhanced, Gasket, Pre



TE Part # 2057086-1  
SFP+ Enhanced 1x1 Cage Assembly



TE Part # 2057353-1  
SFP+ Enhanced 1x4 Cage Assy



TE Part # 2057833-1  
SFP+ Enhanced 1x4 Cage Assy



TE Part # 2180739-1  
SFP+ Enhanced 1x2, Heatsink Op



TE Part # 2198224-1  
SFP+ Enhanced 1x2, PCI Heatsink



TE Part # 2198224-4  
SFP+ Enhanced 1x2, Networking Heatsink



TE Part # 2198225-4  
SFP+ Enhanced 1x2, Net Heatsink, LP

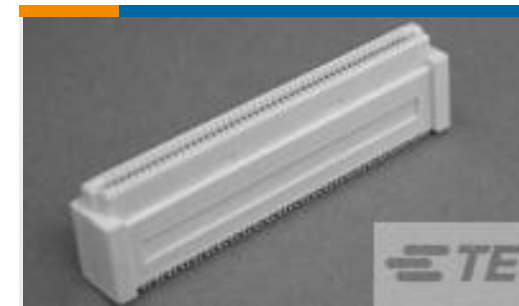
## Customers Also Bought



TE Part #7-5179180-3  
0.8FH,R09H.5,080,30/Sn,TR,SC



TE Part #5645518-1  
MSS SER 4 SPL ON STRIP



TE Part #5084618-1  
0.8FH,R13H.5,040,30/Sn,TR,SC



TE Part #2170030-1  
SFP+ 1x4 w/ Ultra Low Profile LP



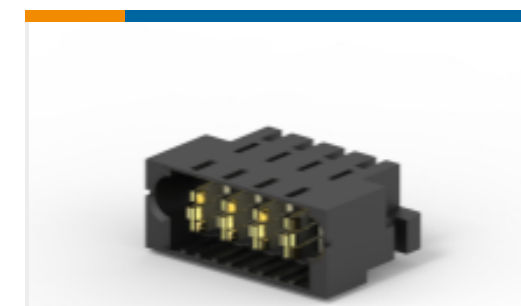
TE Part #1676444-2  
RN 0805 82K5 0.1% 10PPM 1KRL



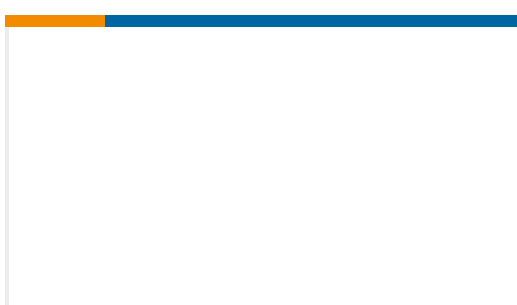
TE Part #2170752-2  
CAGE ASSEMBLY, QSFP28 1X1,  
GASKET



TE Part #2298896-4  
2X1 QSFP+ SPRING CAGE AND  
CONN W/O LP



TE Part #2204165-3  
MBXLE R/A HEADER 4P CONN



TE Part #6450562-8  
MBXL R/A RCPT 4P + 12S

## Documents

### Product Drawings

[PT CONN ASSY 20 POS 16G SFP](#)

English

### CAD Files

[Customer View Model](#)

[ENG\\_CVM\\_CVM\\_2110759-1\\_A.2d\\_dxf.zip](#)

English

[3D PDF](#)





3D

Customer View Model

[ENG\\_CVM\\_CVM\\_2110759-1\\_A.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2110759-1\\_A.3d\\_stp.zip](#)

English

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

---

### Datasheets & Catalog Pages

[1-1773717-7\\_PLUGGABLE\\_IO\\_QRG\\_CN](#)

English

[1-1773717-8\\_PLUGGABLEIO\\_QRG\\_TCN](#)

English

[1-1773717-9\\_HIGH\\_SPEED\\_IO\\_QRG\\_JA](#)

English

[4-1773455-3 - Quick Reference Guide SFP+ Solutions](#)

English

---

### Product Specifications

[Application Specification](#)

English

[Application Specification](#)

English