

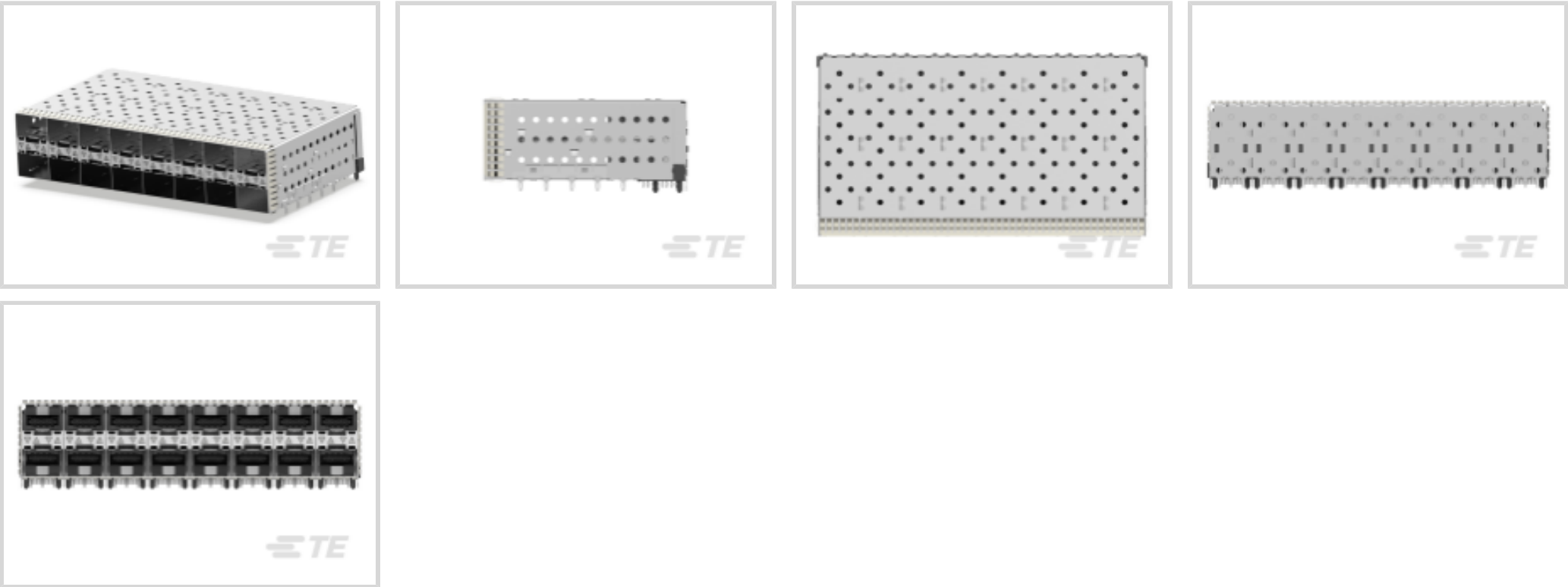


SFP28

TE Internal #: 1-2149490-5
SFP/SFP+/zSFP+, Cage Assembly with Integrated Connector, Data Rate (Max) 16 Gb/s, External Springs, EMI Enhanced, Included Lightpipe

[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: **External Springs**

Pluggable I/O Applications: **EMI Enhanced**

Included Lightpipe: **Yes**

[All SFP+ Stacked Cage Assemblies \(122\)](#)

Features

Product Type Features

Form Factor	SFP+
Cage Type	Stacked
Pluggable I/O Product Type	Cage Assembly with Integrated Connector
Integrated Lightpipes	Yes
Connector System	Cable-to-Board
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

Port Matrix Configuration	2 x 8
Lightpipe Configuration	Four Triangular (Inner & Outer)
Number of Ports	16
Number of Positions	320



Electrical Characteristics

Data Rate (Max)	16 Gb/s
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Contact Features

Tail Plating Material	Tin
Contact Mating Area Plating Thickness	.76 µm
Contact Mating Area Plating Material	Gold or Gold Flash over Palladium Nickel

Termination Features

Termination Method to Printed Circuit Board	Through Hole - Press-Fit
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Mechanical Attachment

PCB Mounting Style	Through Hole - Press-Fit
Connector Mounting Type	Board Mount

Housing Features

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

Dimensions

Tail Length	3 mm[.118 in]
PCB Thickness (Recommended)	1.5 mm[.059 in]

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	EMI Enhanced
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	External Springs
Included Lightpipe	Yes



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: JAN 2021 (211) Candidate List Declared Against: JAN 2021 (211) Does not contain REACH SVHC
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-H50626
SFP+ to SFP+ I/O Cable Assembly: 30 AWG



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-N4901142
SFP28 to SFP28 Cable Assembly: 32 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

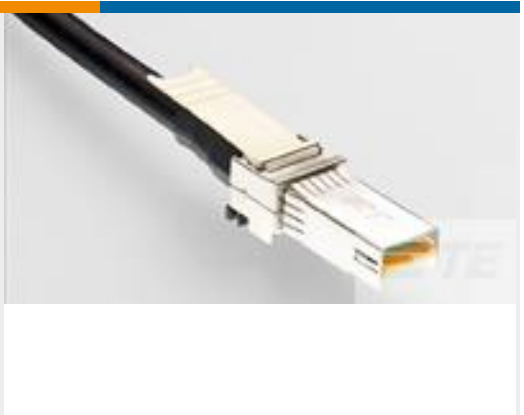
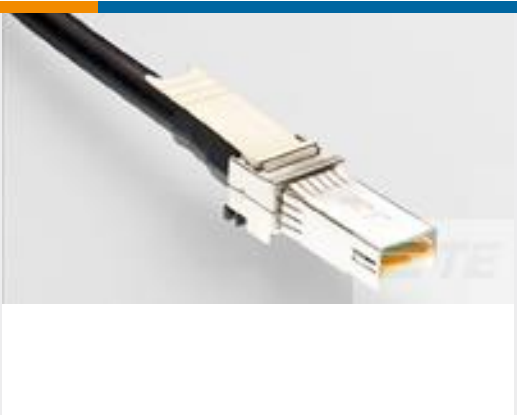
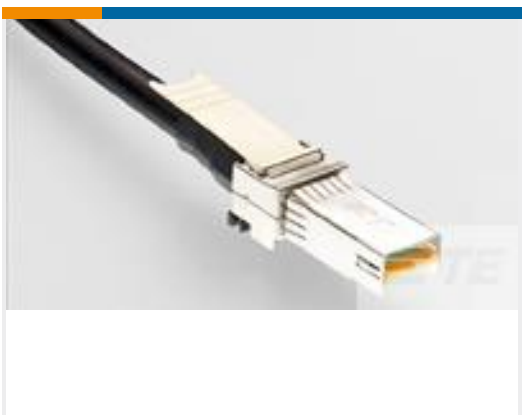
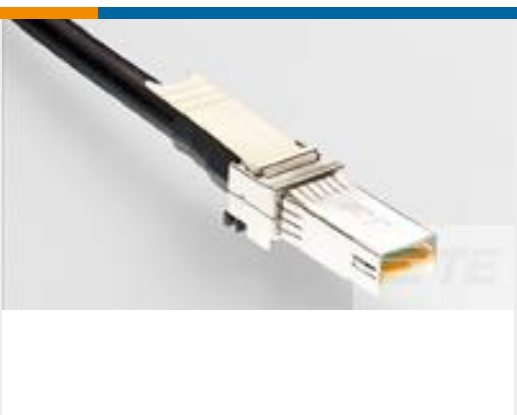


TE Part # CAT-Q17-N49011
QSFP56-Four SFP56 Cable Assembly: 30 AWG

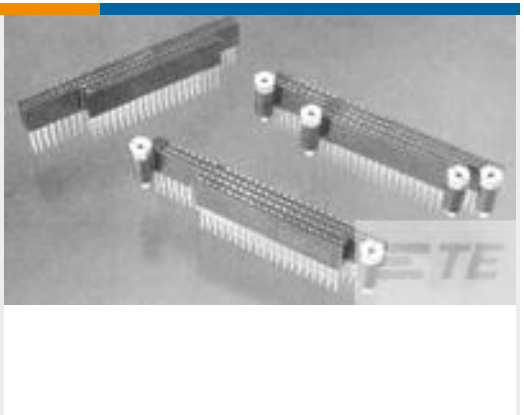


TE Part # CAT-Q17-N490333
QSFP56-Four SFP56 Cable Assembly: 26 AWG



 TE Part # CAT-C11-G28037 SFP56 to SFP56 Cable Assembly: 30 AWG	 TE Part # CAT-C11-G28 SFP56 to SFP56 Cable Assembly: 26 AWG	 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-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 # 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	 TE Part # 2142970-5 CABLE ASSY, MICRO SFP+ TO STD SFP+, 4M	 TE Part # 2142970-6 CABLE ASSY, MICRO SFP+ TO STD SFP+, 5M

Customers Also Bought

 TE Part #0462-209-16141 DEUTSCH SOLID CONTACTS	 TE Part #1-2308107-0 DDR4 DIMM SOCKETS	 TE Part #1445441-2 PC104 ASY UNKEYED ORGNZR	 TE Part #W6P DEUTSCH DT WEDGELOCKS
 TE Part #114017-ZZ DEUTSCH SEALING PLUGS	 TE Part #1-2314097-1 M12 CRIMP CONTACT FOR A8 CODE	 TE Part #1-480698-0 02P UMNL PLUG HSG NATL	

Documents



Product Drawings

SFP+ Assy 2x8 EMI Spg 4 Lp Sn Enhanced

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1-2149490-5_B.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1-2149490-5_B.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1-2149490-5_B.3d_stp.zip

English

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

Datasheets & Catalog Pages

4-1773455-3 - Quick Reference Guide SFP+ Solutions

English

Product Specifications

Application Specification

English

Instruction Sheets

Instruction Sheet (U.S.)

English

Instruction Sheet (U.S.)

English