



SFP28

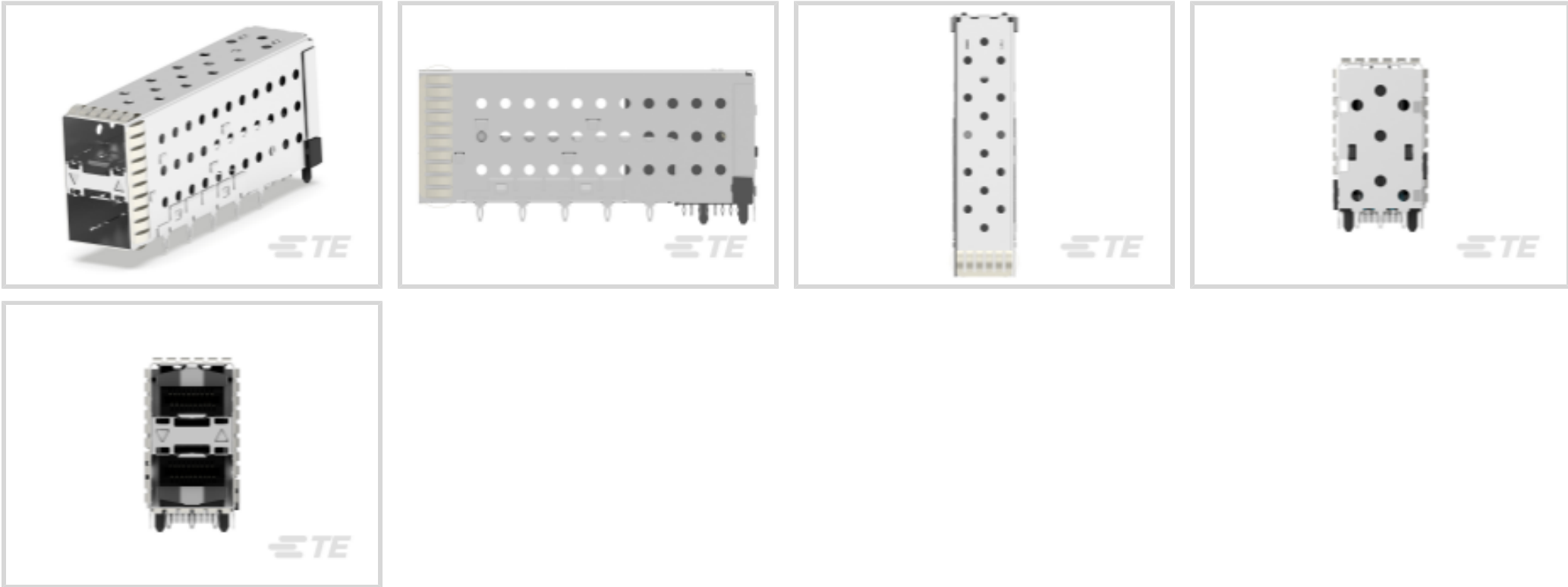
TE Internal #: 1-2007492-7

SFP+, Cage Assembly with Integrated Connector, .032in [.8mm]

Centerline, Signal, Operating Temperature Range -55 - 105 °C [-67 - 221 °F]

[View on TE.com >](#)

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



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

Centerline (Pitch): **.8 mm [ .032 in ]**

Sealable: **No**

Circuit Application: **Signal**

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

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

Features

Product Type Features

|                            |                                         |
|----------------------------|-----------------------------------------|
| Cage Type                  | Stacked                                 |
| Pluggable I/O Product Type | Cage Assembly with Integrated Connector |
| Sealable                   | No                                      |
| Form Factor                | SFP+                                    |

Configuration Features

|                           |       |
|---------------------------|-------|
| Number of Positions       | 40    |
| Number of Ports           | 2     |
| Port Matrix Configuration | 2 x 1 |

Electrical Characteristics

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

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 |

Termination Features

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

Housing Features

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

Dimensions

|                             |                 |
|-----------------------------|-----------------|
| PCB Thickness (Recommended) | 1.5 mm[.059 in] |
|-----------------------------|-----------------|

Usage Conditions

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

Operation/Application

|                            |              |
|----------------------------|--------------|
| Pluggable I/O Applications | EMI Enhanced |
| Heat Sink Compatible       | No           |
| Circuit Application        | Signal       |

Industry Standards

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

Packaging Features

|                  |         |
|------------------|---------|
| Packaging Method | Package |
|------------------|---------|

Other

|                              |                               |
|------------------------------|-------------------------------|
| Included Lightpipe           | Yes                           |
| EMI Containment Feature Type | Internal/External EMI Springs |

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 2024 (240)<br>Candidate List Declared Against: JAN 2024 (240) |



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>

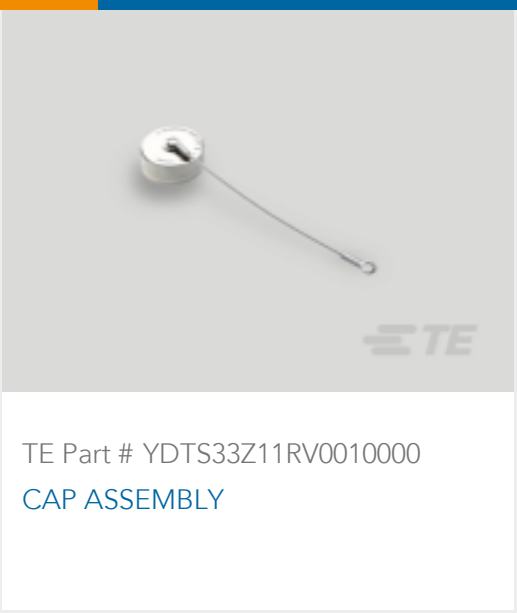
Compatible Parts

|                                                                                                                                                                 |                                                                                                                                                                   |                                                                                                                                                                    |                                                                                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>TE Part # CAT-C11-H50626<br/>SFP+ to SFP+ I/O Cable Assembly: 30 AWG</p> |  <p>TE Part # CAT-C11-N490333<br/>QSFP28-Four SFP+ Cable Assembly: 30 AWG</p> |  <p>TE Part # CAT-C11-N490325<br/>QSFP28-Four SFP+ Cable Assembly: 26 AWG</p> |  <p>TE Part # 2334985-2<br/>SFP28 DIRECT ATTACH CA, 1M, 32AWG</p>              |
|  <p>TE Part # CAT-C11-N4901114<br/>SFP28 to SFP28 Cable Assembly: 30 AWG</p> |  <p>TE Part # CAT-C11-N49011<br/>SFP28 to SFP28 Cable Assembly: 26 AWG</p>    |  <p>TE Part # CAT-Q17-N49011<br/>QSFP56-Four SFP56 Cable Assembly: 30 AWG</p> |  <p>TE Part # CAT-Q17-N490333<br/>QSFP56-Four SFP56 Cable Assembly: 26 AWG</p> |
|  <p>TE Part # 4-2821222-5<br/>SFP56 DIRECT ATTACH CA, 2M, 30AWG</p>          |  <p>TE Part # 4-2821224-5<br/>SFP56 DIRECT ATTACH CA, 3M, 26AWG</p>           |  <p>TE Part # 4-2334985-2<br/>SFP56 DIRECT ATTACH CA, 1M, 32AWG</p>           |  <p>TE Part # CAT-C11-H5<br/>SFP+ to SFP+ I/O Cable Assembly: 24 AWG</p>       |



|                                                                                    |                                                                                     |                                                                                      |                                                                                      |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|   |   |   |   |
| <p>TE Part # CAT-C11-H506<br/>SFP+ to SFP+ I/O Cable Assembly: 26 AWG</p>          | <p>TE Part # CAT-C11-H5062<br/>SFP+ to SFP+ I/O Cable Assembly: 28 AWG</p>          | <p>TE Part # 2142970-1<br/>CABLE ASSY, MICRO SFP+ TO STD SFP+, 0.5M</p>              | <p>TE Part # 2142970-2<br/>CABLE ASSY, MICRO SFP+ TO STD SFP+, 1M</p>                |
|  |  |  |  |
| <p>TE Part # 2142970-3<br/>CABLE ASSY, MICRO SFP+ TO STD SFP+, 2M</p>              | <p>TE Part # 2142970-4<br/>CABLE ASSY, MICRO SFP+ TO STD SFP+, 3M</p>               | <p>TE Part # 2142970-5<br/>CABLE ASSY, MICRO SFP+ TO STD SFP+, 4M</p>                | <p>TE Part # 2142970-6<br/>CABLE ASSY, MICRO SFP+ TO STD SFP+, 5M</p>                |

Customers Also Bought

|                                                                                     |                                                                                      |                                                                                       |                                                                                       |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |
| <p>TE Part # 640453-6<br/>06P MTA100 HDR ASSY SQ R/A</p>                            | <p>TE Part # 2013499-1<br/>MICRO USB, TYPE B</p>                                     | <p>TE Part # 6469025-1<br/>HM-ZD 2PR HDR 40P 2.5MM</p>                                | <p>TE Part # 354031-E<br/>STVQ/3 20 FI AB VV 7-03 EE * * 247 E007</p>                 |
|  |  |  |  |
| <p>TE Part # 354265-E<br/>MSPPM 5 F SMDTHR F6 B A V 137 094 * E008</p>              | <p>TE Part # 354282-E<br/>MSPPM 5 M SMDTHR M10 B A V 137 094 * E00</p>               | <p>TE Part # 454949-E<br/>M12 FEMALE, D CODE, 4P, 17MM SMT</p>                        | <p>TE Part # YDTS33Z11RV0010000<br/>CAP ASSEMBLY</p>                                  |
|  |                                                                                      |                                                                                       |                                                                                       |
| <p>TE Part # 063209-E<br/>SMCQ 26 M AB VV 3-03 CLHD * H007 137 E00</p>              |                                                                                      |                                                                                       |                                                                                       |

Documents



Product Drawings

SFP+assy2x1 EMI Sprg Outer Lp Sn Enhance

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_1-2007492-7\_E.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_1-2007492-7\_E.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_1-2007492-7\_E.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

Agency Approvals

UL Report

English