

4-2170747-5 ✓ ACTIVE

zQSFP+/QSFP28

TE Internal #: 4-2170747-5

QSFP, QSFP+ & zQSFP+, Cage Assembly, 1 x 4, Internal/External EMI Springs, Included Lightpipe, Standard, Data Rate (Max) 28 Gb/s, zQSFP+/QSFP28

[View on TE.com >](#)



Connectors > Pluggable IO Connectors & Cages > QSFP, QSFP+ & zQSFP+

Pluggable I/O Product Type: **Cage Assembly**  
Port Matrix Configuration: **1 x 4**  
EMI Containment Feature Type: **Internal/External EMI Springs**  
Thermal Accessory Type Included: **Heat Sink**  
Included Lightpipe: **Yes**

## Features

### Product Type Features

Form Factor	QSFP28/56
Cage Type	Ganged
Pluggable I/O Product Type	Cage Assembly
Thermal Accessory Type Included	Heat Sink
Connector System	Cable-to-Board
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board

### Configuration Features

Port Matrix Configuration	1 x 4
Number of Ports	4
Lightpipe Configuration	Quad Round
Number of Rear EONs per Port Column	0

### Electrical Characteristics

Data Rate (Max)	28 Gb/s
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### Body Features

Heat Sink Finish	Anodized Black
Heat Sink Style	Pin
Heat Sink Height Class	SAN
Heat Sink Height	6.5 mm[.256 in]

### Contact Features



PCB Contact Termination Area Plating Material	Tin
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### Termination Features

Termination Post & Tail Length	2.05 mm[.081 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
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### Dimensions

PCB Thickness (Recommended)	1.57 mm[.062 in]
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### Usage Conditions

Operating Temperature Range	-40 – 85 °C[-40 – 185 °F]
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### Operation/Application

For Use With Pluggable I/O Products	QSFP28 Cable Assembly, QSFP28 MSA Compatible Transceiver
Pluggable I/O Applications	SFP+ Stacked Belly-to-Belly
Circuit Application	Signal

### Industry Standards

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

Packaging Method	Box & Tray
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### Other

EMI Containment Feature Type	Internal/External EMI Springs
Included Lightpipe	Yes
Enhancements	Standard

### 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 2022 (224)  
 Does not contain REACH SVHC

Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
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Solder Process Capability	Not applicable for solder process capability
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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-Z806726                  QSFP28 to QSFP28 Cable Assembly:                  30 AWG</p>	<p>TE Part # CAT-C11-N49                  QSFP28-Two QSFP28 Cable                  Assembly: 30 AWG</p>	<p>TE Part # CAT-C11-Z8                  QSFP28 to QSFP28 Cable Assembly:                  26 AWG</p>	<p>TE Part # CAT-C11-N490333                  QSFP28-Four SFP+ Cable Assembly:                  30 AWG</p>
<p>TE Part # CAT-C11-N490325                  QSFP28-Four SFP+ Cable Assembly:                  26 AWG</p>	<p>TE Part # CAT-Q17-N490325                  QSFP56 to QSFP56 Cable Assembly:                  30 AWG</p>	<p>TE Part # CAT-Q17-N49033                  QSFP56-Two QSFP56 Cable                  Assembly: 30 AWG</p>	<p>TE Part # CAT-C11-Q17                  QSFP56 to QSFP56 Cable Assembly:                  26 AWG</p>



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 # 1551920-2  
zQSFP+ connector assembly

TE Part # 1888810-2  
EMI/Dust Cover,XFP And QSFP

TE Part # 2-2215047-8  
ASSY, STG TL, QSFP28 LP,1X4

### Also in the Series | zQSFP+/QSFP28

Pluggable I/O Cable Assemblies(81)

QSFP, QSFP+ & zQSFP+(432)

### Customers Also Bought

TE Part #5747150-4  
09 RCPT SP/FMS STD

TE Part #3-1879378-0  
TLR 2512 1.0W R002 1% 50PPM 2K RL

TE Part #2309412-1  
DDR4 SODIMM 260P 8.0H RVS

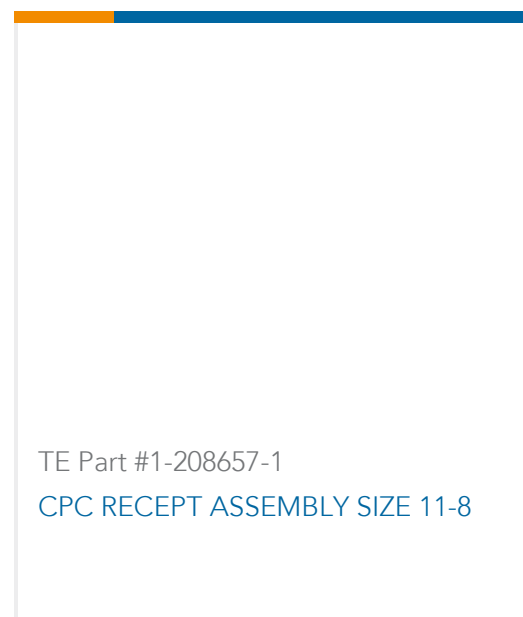
TE Part #1542618-2  
XFP MSA SAN APPLICATION

TE Part #5176139-2  
CONN SEC II 49 POS 100C/L

TE Part #1-1879215-5  
CPF 0402 5K62 0.1% 25PPM 1K RL

TE Part #650906-5  
120 EURO TYPE C PIN ST ASSY

TE Part #3-2176349-4  
CRGCO 2512 5K6 1%



## Documents

### Product Drawings

CAGE ASSY, 1X4, QSFP28, SPRING, HS, LP

English

### CAD Files

3D PDF

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_4-2170747-5\\_A.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_4-2170747-5\\_A.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_4-2170747-5\\_A.3d\\_stp.zip](#)

English

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

### Datasheets & Catalog Pages

QSFP28/56 and zQSFP+ Interconnects

English

### Product Specifications

Application Specification

English

### Product Environmental Compliance

TE Material Declaration

English

### Instruction Sheets

Instruction Sheet (U.S.)

English