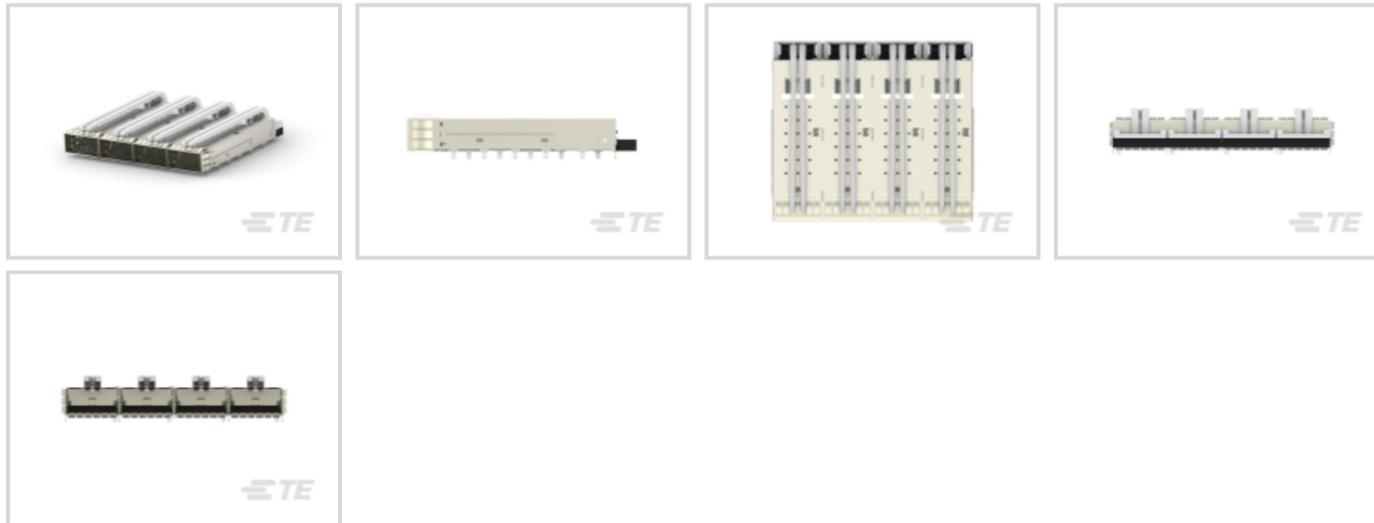# 2170746-2 ✓ ACTIVE

zQSFP+/QSFP28

TE Internal #: 2170746-2

QSFP28/56, Cage Assembly, Signal, Operating Temperature Range
-40 – 85 °C [-40 – 185 °F], Data Rate (Max) 28 Gb/s, 4 Ports

View on TE.com >

Connectors > High Speed Pluggable IO Connectors & Cages

Pluggable I/O Product Type: **Cage Assembly**

Sealable: **No**

Circuit Application: **Signal**

Operating Temperature Range: **-40 – 85 °C [-40 – 185 °F]**

Data Rate (Max): **28 Gb/s**

Features

Product Type Features

Cage Type	Ganged
Pluggable I/O Product Type	Cage Assembly
Sealable	No
Form Factor	QSFP28/56

Configuration Features

Number of Rear EONs per Port Column	1
Number of Ports	4
Port Matrix Configuration	1 x 4

Electrical Characteristics

Data Rate (Max)	28 Gb/s

Contact Features

PCB Contact Termination Area Plating Material	Tin

Termination Features

Termination Method to PCB	Through Hole - Press-Fit

2170746-2

QSFP28/56, Cage Assembly, Signal, Operating Temperature Range -40 – 85 °C [-40 – 185 °F], Data Rate (Max) 28 Gb/s, 4 Ports

Termination Post & Tail Length	2.05 mm[.081 in]

Housing Features

Cage Material	Nickel Silver

Dimensions

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

Usage Conditions

Operating Temperature Range	-40 – 85 °C[-40 – 185 °F]

Operation/Application

Pluggable I/O Applications	SFP+ Stacked Belly-to-Belly
Heat Sink Compatible	No
Circuit Application	Signal

Industry Standards

UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Method	Box & Tray

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	有害物质含量符合标准要求 No Restricted Substance(s) Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2025 (250) Candidate List Declared Against: JUNE 2025 (250) 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

2170746-2

QSFP28/56, Cage Assembly, Signal, Operating Temperature Range -40 – 85 °C [-40 – 185 °F], Data Rate (Max) 28 Gb/s, 4 Ports

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
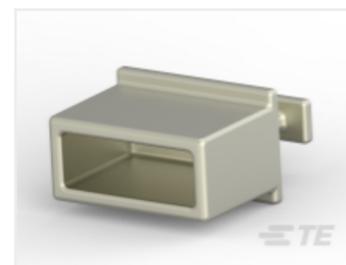
Compatible Parts

TE Part # CAT-C11-Z806726

QSFP28 to QSFP28 Cable Assembly: 30 AWG

TE Part # CAT-Q17-N49011

QSFP56-Four SFP56 Cable Assembly: 30 AWG

TE Part # CAT-C11-Z8

QSFP28 to QSFP28 Cable Assembly: 26 AWG

TE Part # 1888810-2

EMI/Dust Cover,XFP And QSFP

TE Part # CAT-Q17-N49033

QSFP56-Two QSFP56 Cable Assembly: 30 AWG

TE Part # CAT-C11-Q17

QSFP56 to QSFP56 Cable Assembly: 26 AWG

TE Part # CAT-C11-N49

QSFP28-Two QSFP28 Cable Assembly: 30 AWG

TE Part # CAT-C11-N490325

QSFP28-Four SFP+ Cable Assembly: 26 AWG

TE Part # CAT-C11-N490333

QSFP28-Four SFP+ Cable Assembly: 30 AWG

TE Part # CAT-Q17-N490333

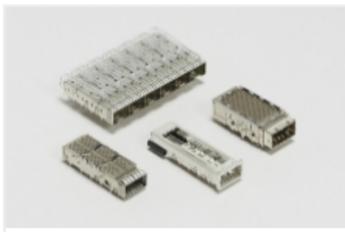QSFP56-Four SFP56 Cable Assembly: 26 AWG

TE Part # 1551920-2

zQSFP+ connector assembly

TE Part # CAT-Q17-N490325
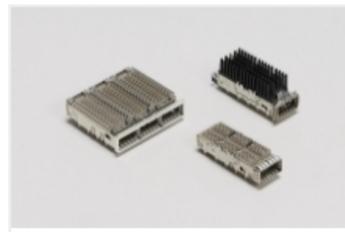
QSFP56 to QSFP56 Cable Assembly: 30 AWG

Also in the Series | zQSFP+/QSFP28

2170746-2

QSFP28/56, Cage Assembly, Signal, Operating Temperature Range -40 – 85 °C [-40 – 185 °F], Data Rate (Max) 28 Gb/s, 4 Ports

High Speed Pluggable IO Connectors & Cages(394)
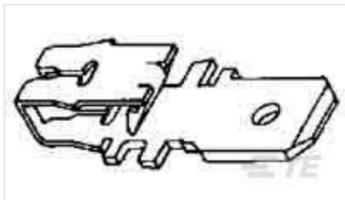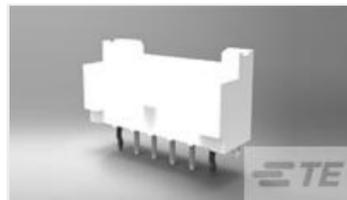
Pluggable I/O Cable Assemblies(78)

QSFP, QSFP+ & zQSPF+(394)

Customers Also Bought
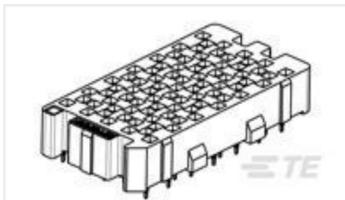
TE Part #1742160-1
TAB,187 FASTON,MAG-MATE

TE Part #1-1744439-8
EP2.5 Shrd HDR ASSY 18P VERT, GW

TE Part #8-1879011-5
SMF2 680K 5%

TE Part #2102502-4
FORTIS LRM, GROUNDING POST, PASSIVATED

TE Part #5-2143411-1
STRADA MESA,RC,HF,024,000,00,SN,N,NA

TE Part #2351450-1
SMINSA SW PPL 1.47N 5A/3A AC 3A DC SP

TE Part #2842154-5
10P,2MM,BRK HDR,DRRT,2.8,0.1AU,TB W/CAP

TE Part #3-1469388-7
ATCA GUIDE MODULE VERT LONG PIN

TE Part #2-2319764-0
E STACK PIANO 10P G SHORT TUBE PD OFF

TE Part #4-2176379-5
RQ 0805 309R 0.1% 10PPM 5K RL

Documents

Product Drawings
CAGE ASSY, 1X4, QSFP28, SPRING, LP

English

CAD Files
3D PDF

3D

Customer View Model
ENG_CVM_CVM_2170746-2_A.2d_dxf.zip

2170746-2

QSFP28/56, Cage Assembly, Signal, Operating Temperature Range -40 – 85 °C [-40 –
185 °F], Data Rate (Max) 28 Gb/s, 4 Ports

English

Customer View Model

ENG_CVM_CVM_2170746-2_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_2170746-2_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