2170747-6 ✓ ACTIVE

zQSFP+/QSFP28

TE Internal #: 2170747-6

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

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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	Single Round
Number of Rear EONs per Port Column	0

Electrical Characteristics

Data Rate (Max)	28 Gb/s

Body Features

Heat Sink Finish	Anodized Black
Heat Sink Style	Pin

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Heat Sink Height Class	Networking
Heat Sink Height	13.5 mm[.531 in]

Contact Features

PCB Contact Termination Area Plating Material	Tin

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

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

Heat Sink Compatible	Yes
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

Packaging Features

Packaging Method	Box & Tray

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>

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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.
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-Z806726
QSFP28 to QSFP28 Cable Assembly: 30 AWG

TE Part # CAT-C11-N49
QSFP28-Two QSFP28 Cable Assembly: 30 AWG

TE Part # CAT-C11-Z8
QSFP28 to QSFP28 Cable Assembly: 26 AWG

TE Part # CAT-C11-N490333
QSFP28-Four SFP+ Cable Assembly: 30 AWG

TE Part # CAT-C11-N490325
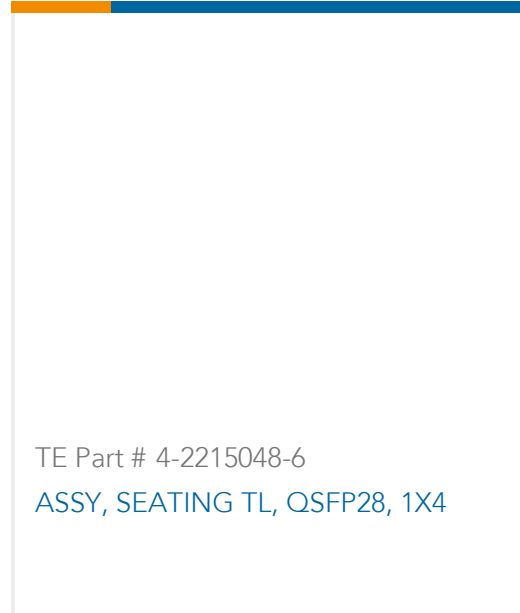QSFP28-Four SFP+ Cable Assembly: 26 AWG

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

TE Part # CAT-Q17-N49033
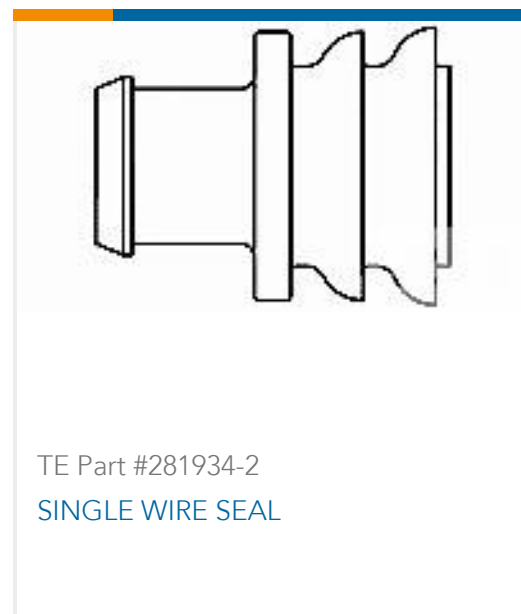QSFP56-Two QSFP56 Cable Assembly: 30 AWG

TE Part # CAT-C11-Q17
QSFP56 to QSFP56 Cable Assembly: 26 AWG

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

TE Part # 1551920-2
zQSFP+ connector assembly

TE Part # 2185225-1
ASSY, SEATING TOOL, CUSTOM

TE Part # 4-2215048-6
ASSY, SEATING TL, QSFP28, 1X4

Also in the Series | zQSFP+/QSFP28

Heat Sinks(1)

Pluggable I/O Cable Assemblies(81)

QSFP, QSFP+ & zQSPF+(425)

Customers Also Bought

TE Part #206070-8
CABLE CLAMP KIT #17

TE Part #DT04-2P
REC, 2P, GRY, N

TE Part #DT06-2S
PLG, 2P, GRY, N

TE Part #W2S
Wedgelocks: DEUTSCH DT

TE Part #0462-201-16141
DEUTSCH Solid Contacts

TE Part #282080-1
AMP SUPERSEAL 1.5MM, CONNECTOR HOUSING

TE Part #281934-2
SINGLE WIRE SEAL

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Included Lightpipe, Standard, Data Rate (Max) 28 Gb/s, zQSFP+/QSFP28

Documents

Product Drawings

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

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_2170747-6_A.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_2170747-6_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_2170747-6_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

MD_2170747-6_1129201741_dmtec

English

MD_2170747-6_1129201741_dmtec

English