



Connectors > Pluggable IO Connectors & Cages



Form Factor: **QSFP28/56**

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

Sealable: **No**

Circuit Application: **Signal**

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

Features

Industry Standards

UL Flammability Rating	UL 94V-0
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Termination Features

Termination Method to PCB	Through Hole - Press-Fit
Termination Post & Tail Length	2.05 mm[.081 in]

Dimensions

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

PCB Contact Termination Area Plating Material	Tin
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Housing Features

Cage Material	Nickel Silver
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Packaging Features

Packaging Method	Box & Tray
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Configuration Features

Number of Rear EONs per Port Column	2
Number of Ports	1
Port Matrix Configuration	1 x 1



Operation/Application

Pluggable I/O Applications	SFP+ Stacked Belly-to-Belly
Heat Sink Compatible	Yes
Circuit Application	Signal

Product Type Features

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

Electrical Characteristics

Data Rate (Max)	28 Gb/s
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Usage Conditions

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

Included Lightpipe	No
EMI Containment Feature Type	Internal/External EMI Springs
EU RoHS Compliance	Compliant
EU ELV Compliance	Compliant

Product Compliance

For compliance documentation, visit the product page on TE.com>

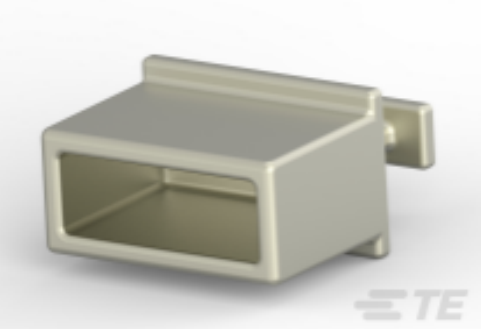
EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2024 (241) Candidate List Declared Against: JUNE 2024 (241) Does not contain REACH SVHC
Halogen Content	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
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>

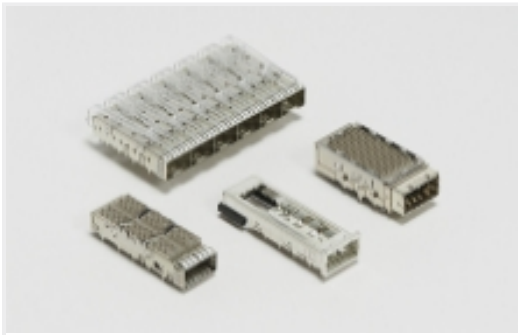
Compatible Parts

 TE Part # CAT-Q17-N49011 QSFP56-Four SFP56 Cable Assembly: 30 AWG	 TE Part # CAT-C11-Z806726 QSFP28 to QSFP28 Cable Assembly: 30 AWG	 TE Part # CAT-C11-Q17 QSFP56 to QSFP56 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-Z8 QSFP28 to QSFP28 Cable Assembly: 26 AWG	 TE Part # 1551920-2 zQSFP+ connector assembly	 TE Part # CAT-Q17-N490325 QSFP56 to QSFP56 Cable Assembly: 30 AWG
 TE Part # CAT-C11-N49 QSFP28-Two QSFP28 Cable Assembly: 30 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 # CAT-C11-N490325 QSFP28-Four SFP+ Cable Assembly: 26 AWG

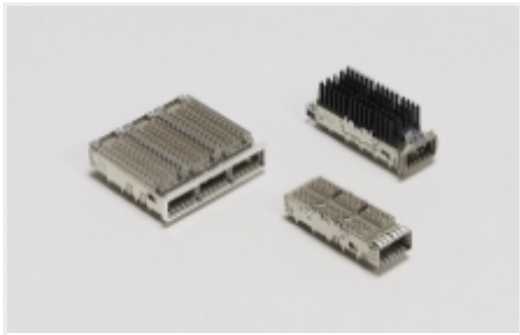
Also in the Series | zQSFP+/QSFP28



Pluggable I/O Cable Assemblies(78)



Pluggable IO Connectors & Cages(424)



QSFP, QSFP+ & zQSFP+(424)

Customers Also Bought



TE Part #1-292206-0
MINI CT SGL DIP H 10P NAT



TE Part #1-1676481-9
CPF 0603 30R 0.1% 25PPM 1K RL



TE Part #826658-4
4P AMPMODU II STIFT LEI



TE Part #8-1614350-7
RN 0603 10R 0.1% 10PPM 1K RL



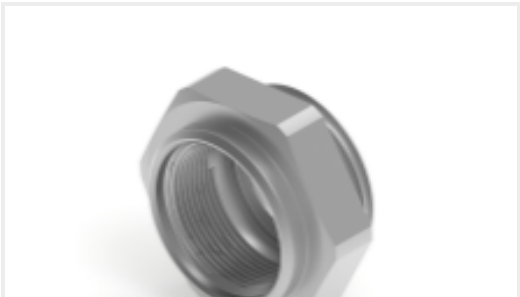
TE Part #6-1614353-3
RN 0603 40K2 0.1% 10PPM CUT LENGTH



TE Part #2007741-1
IMP100S,R,RA6P10C,UG,39



TE Part #394811-E
M12 FEMALE, X CODE, 8P, 17MM SMT, CAT6A



TE Part #394828-E
M12 METAL SHELL, FEMALE, VERT, 9MM, C6A



TE Part #494166-E
M12 FEMALE, A CODE, 8P, 17MM SMT



TE Part #6862-201-20278
CONT SOC

Documents

Product Drawings

CAGE ASSEMBLY, QSFP28 1X1, SPRING

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_2170703-2_A.2d_dxf.zip



English

Customer View Model

[ENG_CVM_CVM_2170703-2_A.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2170703-2_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