



zQSFP+/QSFP28

TE Internal #: 2170754-1

QSFP28/56, Cage Assembly, Sealable, Signal, Operating Temperature Range -40 – 85 °C [-40 – 185 °F], Data Rate (Max) 28 Gb/s, 1 Ports

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Connectors > Pluggable IO Connectors & Cages



Form Factor: **QSFP28/56**
Pluggable I/O Product Type: **Cage Assembly**
Sealable: **Yes**
Circuit Application: **Signal**
Operating Temperature Range: **-40 – 85 °C [-40 – 185 °F]**

Features

Product Type Features

Cage Type	Ganged
Thermal Accessory Type Included	Heat Sink
Form Factor	QSFP28/56
Pluggable I/O Product Type	Cage Assembly
Sealable	Yes

Configuration Features

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

Electrical Characteristics

Data Rate (Max)	28 Gb/s
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Body Features

Heat Sink Style	Pin
Heat Sink Finish	Anodized Black
	.165 in
Heat Sink Height Class	PCI

Contact Features

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PCB Contact Termination Area Plating Material	Tin
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Termination Features

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

Housing Features

Cage Material	Nickel Silver
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Dimensions

PCB Thickness (Recommended)	1.57 mm
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Usage Conditions

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

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

Included Lightpipe	Yes
EMI Containment Feature Type	Elastomeric Gasket

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 2025 (247) Candidate List Declared Against: JUNE 2024 (241) Does not contain REACH SVHC
Halogen Content	Not Low Halogen - contains Br or Cl > 900



ppm.

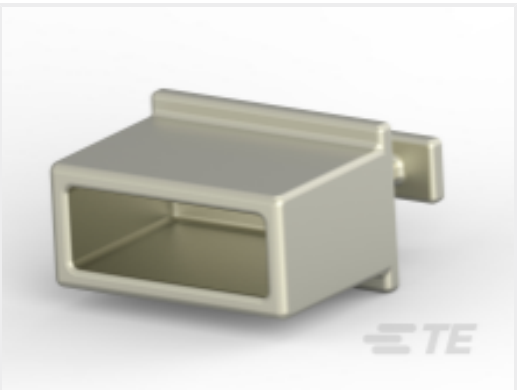
Solder Process Capability

Not applicable for solder process capability

Product Compliance Disclaimer

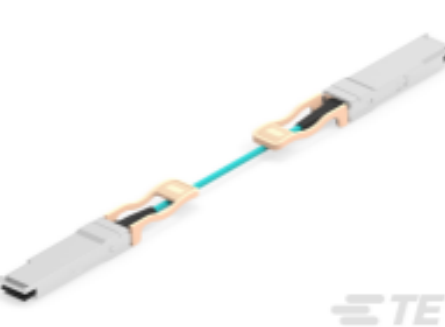
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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

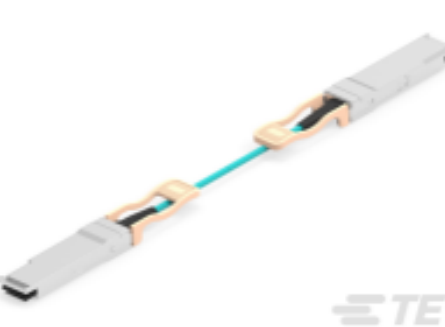
 TE Part # 2368651-6 QSFP56-QSFP56, AOC, 15m Length	 TE Part # 2368650-2 QSFP28-QSFP28, AOC, 2m Length	 TE Part # 2418081-2 QSFP-DD to 2X QSFP56, AOC 2m Length	 TE Part # 1888810-2 EMI/Dust Cover,XFP And QSFP
 TE Part # CAT-C11-Z8 QSFP28 to QSFP28 Cable Assembly: 26 AWG	 TE Part # 2368651-1 QSFP56-QSFP56, AOC, 1m Length	 TE Part # CAT-C11-Q17 QSFP56 to QSFP56 Cable Assembly: 26 AWG	 TE Part # CAT-Q17-N49033 QSFP56-Two QSFP56 Cable Assembly: 30 AWG
 TE Part # 2368650-7 QSFP28-QSFP28, AOC, 20m Length	 TE Part # 2418081-8 QSFP-DD to 2X QSFP56, AOC 30m Length	 TE Part # 2418081-3 QSFP-DD to 2X QSFP56, AOC 3m Length	 TE Part # CAT-C11-Z806726 QSFP28 to QSFP28 Cable Assembly: 30 AWG



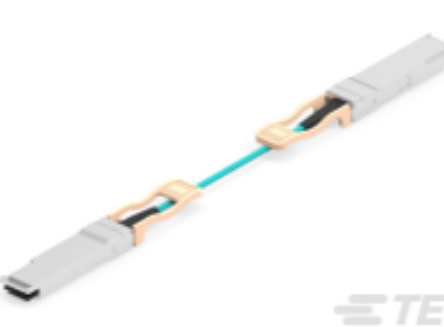
TE Part # CAT-Q17-N49011
QSFP56-Four SFP56 Cable Assembly:
30 AWG



TE Part # 2368651-8
QSFP56-QSFP56, AOC, 30m Length



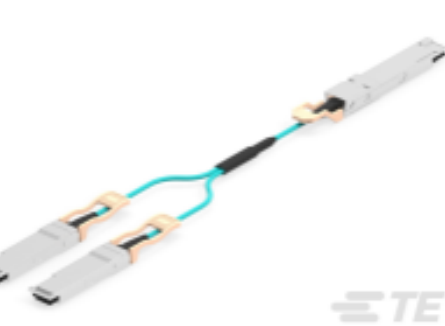
TE Part # 2368651-7
QSFP56-QSFP56, AOC, 20m Length



TE Part # 2368651-2
QSFP56-QSFP56, AOC, 2m Length



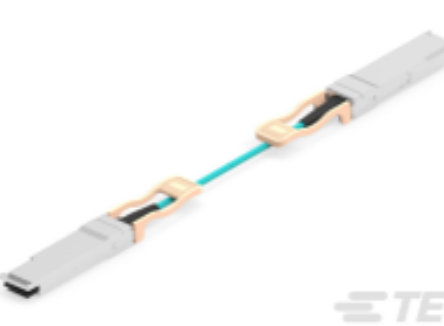
TE Part # 2418081-6
QSFP-DD to 2X QSFP56, AOC 15m
Length



TE Part # 2418081-5
QSFP-DD to 2X QSFP56, AOC 10m
Length



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

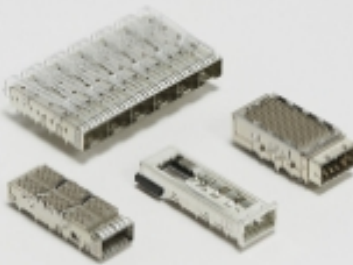


TE Part # 2368651-4
QSFP56-QSFP56, AOC, 5m Length

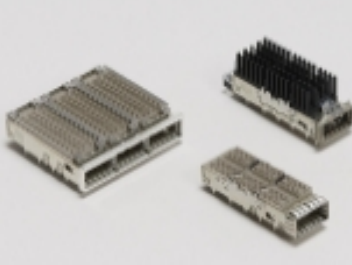
Also in the Series | **zQSFP+/QSFP28**



Heat Sinks(7)

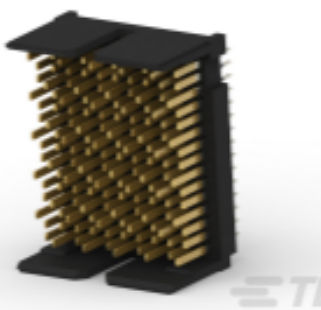


Pluggable IO Connectors & Cages(424)

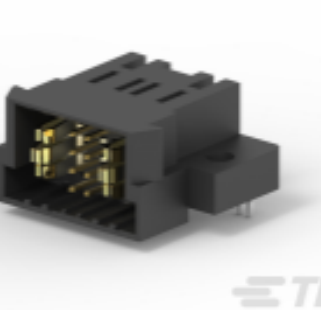


QSFP, QSFP+ & zQSPF+(424)

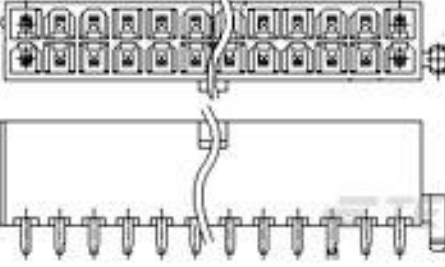
Customers Also Bought



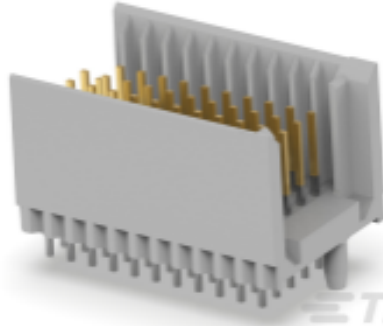
TE Part #1934937-1
Tinman 5pr 10col open hdr assy



TE Part #6450834-1
MBXL R/A HDR STR 1P/8S/1P



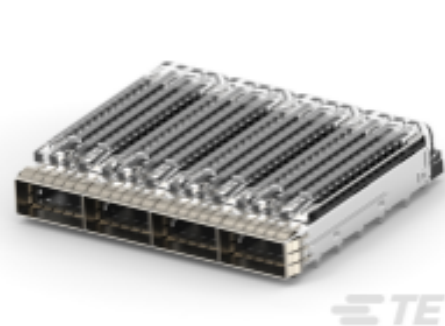
TE Part #3-1775099-3
ATX PWR CONN 1 BDLK 10 POS



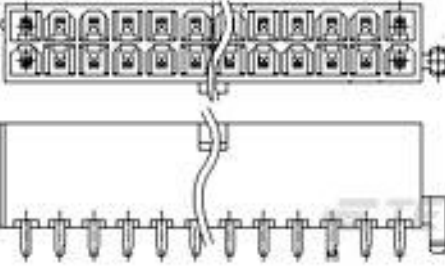
TE Part #2170872-1
Z-PACK TYPE/C MALE HDR 55P



TE Part #2132423-1
IMP1000,R,RA3P6C,RG,39



TE Part #5-2170790-4
CAGE ASSY, 1X4, QSFP28, SPRING,
HS, LP



TE Part #3-1775099-2
ATX PWR CONN 1 BDLK 8 POS



TE Part #6-1658043-2
MSB0.80RC-ASY080FL,GP,F,-TR



Documents

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_2170754-1_A.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_2170754-1_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_2170754-1_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

Product Specification

English