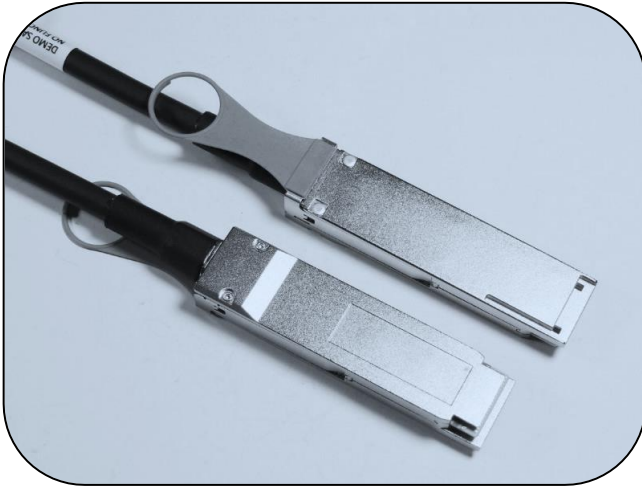


XCD-Q2Q2Nxx

100GE QSFP28 Direct Attach Cable



Applications

- 100 Gigabit Ethernet
- Fiber Channel over Ethernet
- Data storage and communication industry
- Switch/router/HBA
- Enterprise network
- SAN
- Data Center Network

Standards Compliance

- IEEE 802.3bj
- InfiniBand EDR
- QSFP28 MSA
- RoHS Compliant

Description

The 100GE QSFP28 cable assemblies are high performance, cost effective I/O solutions for LAN, HPC and SAN. The high speed cable assemblies meet and exceed 100 Gigabit Ethernet, InfiniBand EDR and temperature requirements for performance and reliability. The cables are compliant with SFF-8436 specifications and provide connectivity between devices using QSFP ports.

Features

- QSFP28 conforms to the Small Form Factor SFF8665
- 4-Channel Full-Duplex Passive Copper Cable Transceiver
- Support data rates 25.78 Gb/s (per channel)
- Maximum aggregate data rate 100 Gb/s (4 x 25.78 Gb/s)
- IEEE 802.3bj 100GEBASE-CR4
- Power Supply +3.3 V
- Low crosstalk
- I2C based two-wire serial interface for EEPROM signature which can be customized
- Operating Temperature 0 ~ 70 °C
- ROHS Compliant

Recommended Operating Conditions

Parameter	Symbol	Min	Typical	Max	Unit
Storage Ambient Temperature		-40		+85	°C
Operating Case Temperature	T _c	0		+70	°C
Power Supply Voltage	V _{CC3}	3.14	3.3	3.47	V
Data Rate Per Lane		1		25.78	Gb/s

Electrical Specification

Item	Specification
Low Level Contact Resistance	Initial: Baseline, with 75 mm cable from the backshell edge. Change: 20 milliohms maximum
Insulation Resistance (Raw cable)	100 VDC , 1000 Mohm (Min.)
Dielectric Withstanding Voltage	AC 300V 1min, no breakdown or flash

Environmental Specification

Item	Specification
Physical shock	Subject mated specimens to 30G's half-sine shock pulses of 11 milliseconds duration. 3 shocks in each direction applied along 3 mutually perpendicular planes, 18 total shocks
Vibration (random)	Subject mated specimens to 3.10G's rms between 20-500 Hz for 15 minutes in each of 3 mutually perpendicular planes
Thermal shock	100 cycles of: a) -55°C for 30 minutes b) +85°C for 30 minutes
Temperature Life	Subject mated Specimens to +105°C for 500 hours
Humidity and Temperature cycling	Subject unmated specimens to 10 cycles (10 days) between 25 and 65°C at 80% to 100% RH
Visual Examination.	Connectors & contacts shall have no evidence of physical defects or otherwise unfit for testing.

Ordering information¹

Part Number	XCD-Q2Q2N			
Length (meter)	1	2	3	5
Wire gauge (AWG)	30	30	26	26

Notes

¹ Specification may change without notice. For accurate specification please contact XenOpt reseller before placing an order. The content of this document is subject to change without notice. Please specify any compatibility requirements at time of ordering. Standard MSA compatible pluggable components may not work or some function of these components may not be available in devices that require customized compatible devices. Pluggable components compatible with one type of communications equipment may not work in other type of communications equipment.

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