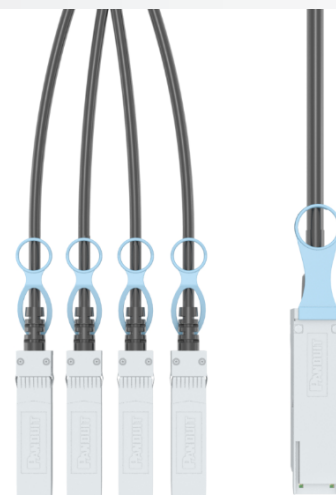# QSFP28 to Four SFP28 Breakout Copper Cable Assemblies

specifications

High bandwidth interconnects are required for next generation data centers. Panduit offers QSFP28 to Four SFP28 Direct Attach Copper Breakout Cable Assemblies. These passive cables provide a cost-effective solution for interconnecting high speed 25 and 100GbE switches and servers. QSFP28 Breakout Cable Assemblies operate as four separate 25Gb/s channels, connected to four SFP28 equipment ports. The four SFP28 ports can be located on the same switch/server or four different locations within the same rack.

technical information

Characteristic impedance:	100 +/- 10 Ohm
Temperature range:	-25°C to 80°C (-13°F to 176°F)
Bend radius:	5 x O.D. single time, 10 x O.D. repeated times
Insertion force to cage:	40N maximum
Withdrawal force from cage:	30N maximum
Durability:	100 mating cycles minimum
ROHS status:	Compliant

key features and benefits

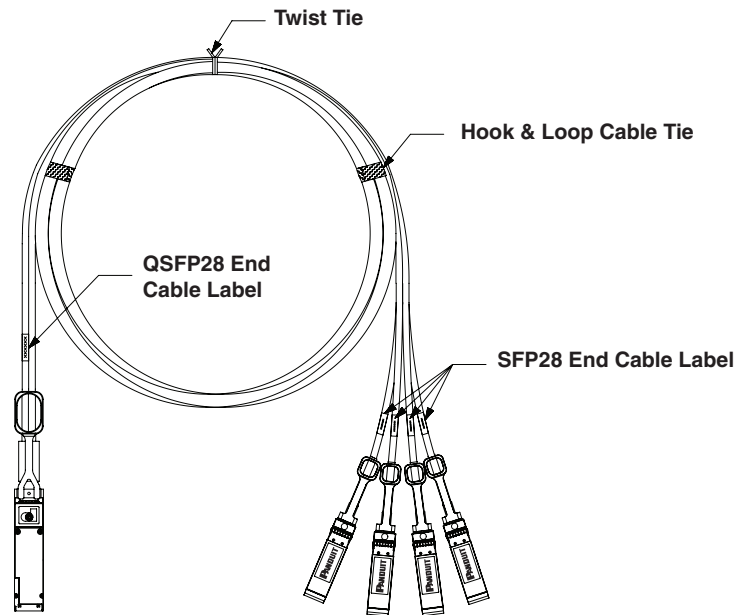|	
Passive low power assembly	Provides a low cost, low power alternative to fiber optics up to 5 meters
100% performance tested	Confidence that each assembly delivers specified performance for ensured network availability
Low latency performance	Ideal for high performance computer clustering and other latency sensitive applications
Robust construction	High speed 22GHz twin-axial cable, with two shielded parallel pairs, factory terminated to SFP28 25Gb/s hot pluggable modular connectors; rated to a minimum 100 mating cycles
Advanced connector design	Excellent EMI resistance and alien crosstalk due to continuous shielding throughout the assembly including a unique design for transitioning the four cables into the QSFP28 housing
High density deployment	QSFP28 connectors maximize switch port density; robust easy-to-use latching feature allows high density belly-to-belly installation and deployments
Variety of lengths	Available 1 to 5 meters (1 meter increments) for design flexibility

applications

- Top of Rack Switch to Server
- 25/100 Gigabit Ethernet
- 128G Fiber Channel
- Fiber Channel over Ethernet (FCoE)

QSFP28 to Four SFP28 Breakout Copper Cable Assemblies

ordering information

Part Number	Length (m)	Length (Ft.)	Cable Gauge	Nominal Cable O.D.		Cable Color
				mm	Inches	
PHQ4SFP2A1MBL	1	3.3	30 AWG	4.5	0.177	Black
PHQ4SFP2A2MBL	2	6.6	30 AWG	4.5	0.177	Black
PHQ4SFP2A3MBL	3	9.8	30 AWG	4.5	0.177	Black
PHQ4SFP2C4MBL	4	13.1	26 AWG	5.1	0.201	Black
PHQ4SFP2C5MBL	5	16.4	26 AWG	5.1	0.201	Black

Twist Tie

Hook & Loop Cable Tie

QSFP28 End Cable Label

SFP28 End Cable Label

For a copy of Panduit product warranties, log on to www.panduit.com/warranty

For more information
Visit us at www.panduit.com
Contact Customer Service by email: cs@panduit.com
or by phone: 800.777.3300

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