PANDUIT® building a smarter, unified business foundation
Connect. Manage. Automate.

Product Bulletin

QSFP+ 40Gig™ Copper Cable Assemblies

As virtualization, consolidation, and convergence initiatives continue to grow, so do the demands placed on the physical infrastructure. To meet the needs for faster processing speeds and higher density, Panduit offers QSFP+ Direct Attach Copper Cable Assemblies.

QSFP+ (Quad Small Form factor Pluggable) 40Gig™ cable assemblies provide four channels of 10 Gb/s in one cost effective interface that offers up to three times the density of standard SFP+ 10Gig™ cable assemblies. Panduit QSFP+ are compliant with IEEE802.3ba 40GBASE-CR4, SFF-8436 and InfiniBand QDR specifications, while meeting requirements for both QSFP and QSFP+.

End-to-end high speed data transport systems from Panduit deliver enhanced availability, agility, and security. Visit www.panduit.com/hsdt to learn more about how these solutions help customers manage risk across their physical infrastructure.

Key Features / Benefits

Key Features	Benefits
Compliant to IEEE 802.3ba and SFF-8436	Can be used for 40GBASE-CR4 applications and are hot pluggable into QSFP compliant host ports
EEPROM compliant to SFF-8436	Ensures interoperability with 40Gig™ Ethernet and QDR Infiniband equipment
Passive copper cable assembly	Low cost, low power alternative to fiber optics up to 7 meters
High density	Can be used in place of four SFP+ Direct Attach Cables tripling switch port density
Low latency	Can be used for high performance computer clustering and other latency sensitive applications
Robust latching	Easy-to-use latching feature allows high density belly-to-belly installation
Advanced connector design	Reduces crosstalk to meet both 40GBASE-CR4 and InfiniBand QDR requirements
100% performance tested	Reduces risk of a faulty cord in the field and ensures quicker up time
Part of Panduit Unified Physical Infrastructure solution	Designed to be integrated with Panduit NetAccess™ Cabinets for improved layout, wire-management, and advanced cooling

Technical Information

- Characteristic impedance: 100 +/- 5 Ω
- Operating temperature: -25°C to 80°C (-13°F to 176°F)
- Storage temperature: -40°C to 80°C (-40°F to 176°F)
- Flame retardant IEC 60332-3-24
- Bend radius: 5 x O.D. single time, 10 x O.D. repeated times

- Insertion force to cage: 40 N maximum
- Withdrawal force from cage: 30 N maximum
- Retention force: 90 N minimum
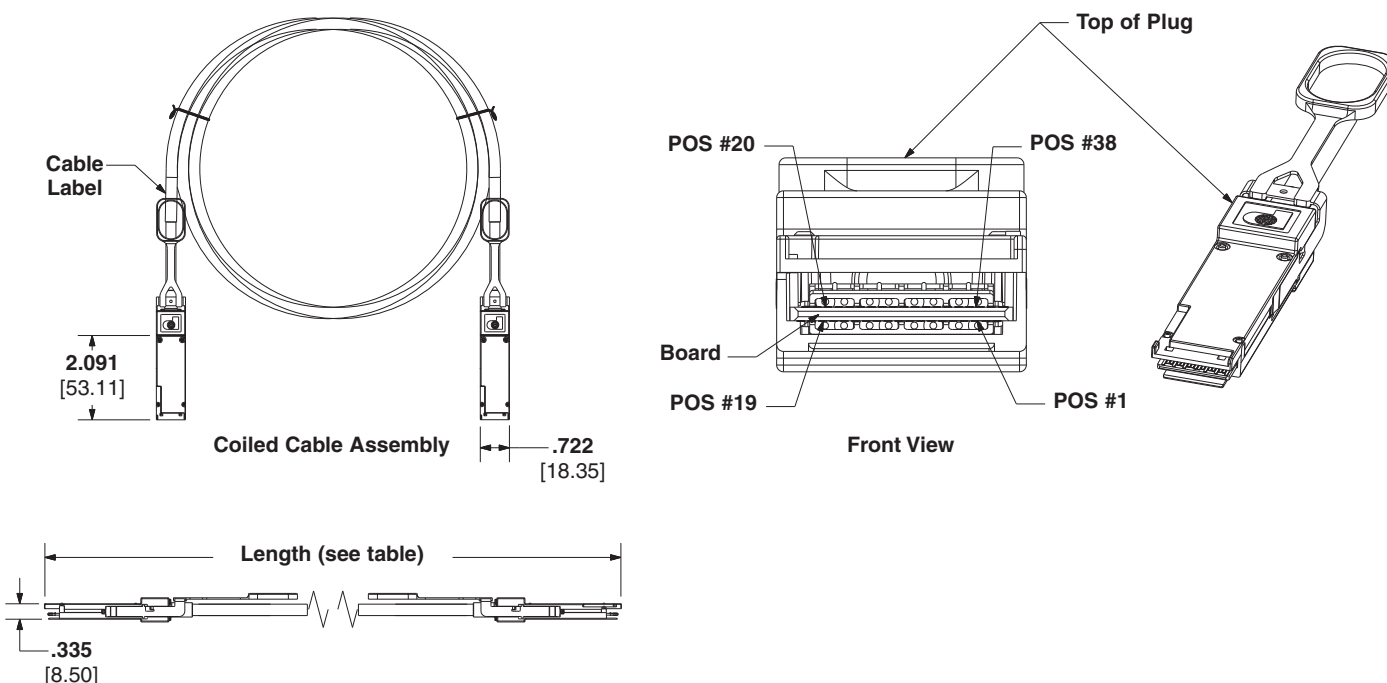- Durability: 250 mating cycles minimum
- RoHS compliant

Applications

- Top of Rack (ToR) switch to server
- End of Row (EoR)/Middle of Row(MoR) switch to switch
- Fibre Channel over Ethernet (FCoE)

- 10Gig™ and 40Gig™ Ethernet
- Infiniband QDR
- SAS 6G

Standard Part Number Table

Part Number	Application	Length	Cable Gauge	Nominal Cable O.D.	Cable Jacket	Cable Color
PQSFPQA1MBU	InfiniBand QDR	1m (3.3')	30 AWG	6.1mm (0.24")	PVC	Blue
PQSFPQA2MBU	InfiniBand QDR	2m (6.6')	30 AWG	6.1mm (0.24")	PVC	Blue
PQSFPQB3MBU	InfiniBand QDR	3m (9.8')	28 AWG	7.1mm (0.28")	PVC	Blue
PQSFPQC4MBU	InfiniBand QDR	4m (15.2')	26 AWG	8.7mm (0.34")	PVC	Blue
PQSFPQD5MBU	InfiniBand QDR	5m (16.4')	24 AWG	9.8mm (0.39")	PVC	Blue
PQSFPXA1MBU	40GBASE-CR4	1m (3.3')	30 AWG	6.1mm (0.24")	PVC	Blue
PQSFPXA2MBU	40GBASE-CR4	2m (6.6')	30 AWG	6.1mm (0.24")	PVC	Blue
PQSFPXA3MBU	40GBASE-CR4	3m (9.8')	30 AWG	6.1mm (0.24")	PVC	Blue
PQSFPXB4MBU	40GBASE-CR4	4m (15.2')	28 AWG	7.1mm (0.28")	PVC	Blue
PQSFPXC5MBU	40GBASE-CR4	5m (16.4')	26 AWG	8.7mm (0.34")	PVC	Blue
PQSFPXD6MBU	40GBASE-CR4	6m (19.7')	24 AWG	9.8mm (0.39")	PVC	Blue
PQSFPXD7MBU	40GBASE-CR4	7m (23')	24 AWG	9.8mm (0.39")	PVC	Blue

Cable Label

2.091 [53.11]

Coiled Cable Assembly

.722 [18.35]

Top of Plug

POS #20   POS #38

Board

POS #19   POS #1

Front View

Length (see table)

.335 [8.50]

Dimensions are in inches. [Dimensions in brackets are metric].

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For more information

Visit us at www.panduit.com

Contact Customer Service by email: cs@panduit.com
or by phone: 800.777.3300 and reference COCB28

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