

Siemon QSFP+ Passive Copper Assemblies

Siemon Interconnect Solutions QSFP+ Copper Cable assemblies were developed for high-density applications, offering a cost-effective, low-power option for high-speed data center interconnects. The QSFP+ form factor (Quad SFP+) can replace up to four standard SFP+ connections, providing greater density and reduced system cost. The direct-attach assemblies support emerging 40Gb/s applications and are available in standard lengths up to 6 meters with longer custom lengths available.

Multiple conductor sizes available to achieve optimized performance

Positive retention pull-release latch system

APPLICATIONS

- InfiniBand 4X SDR, DDR, QDR
- Ethernet 10G,40G
- FiberChannel 10G,40G, SAN
- RapidIO
- Myrinet 40G
- Rack-to-Rack, Shelf-to-Shelf Interconnect
- Networking
- Storage
- Hubs, switches, routers, servers

STANDARDS COMPLIANCE

- Electrical: IBTA V2 Revision 1.2.1
- IEEE 802.3ba
- EEPROM: SFF-8436
- RoHS

High-Density QSFP+ connector

Ultra low crosstalk for enhanced performance

PCB Termination

Overmold provides additional strain relief to minimize pistoning

Laser stripped conductors

Automated welding for unmatched consistency

Welding results in less dielectric shrink-back than soldering



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Performance Specifications:

Electrical	
Min. Dielectric Withstand Voltage	300 VDC
Insulation Resistance	1000 Mohms
Current Rating	0.5 Amp Min/Signal Contact
General	
Operating Temperature	0 to 70 C (32 to 158 F)
Flammability Rating (Plastics)	UL 94
Green Features	RoHS, Lead-Free
Shield	Braid/Foil
Marking	Mfg Name, Part#, Date Code

Ordering Information:

QSFP+ to QSFP+ Passive Copper Cable Assemblies

Part Number	Length (Meters)	Gauge
QSFP30-00.5	0.5	30
QSFP30-01	1	30
QSFP30-01.5	1.5	30
QSFP30-02	2	30
QSFP30-02.5	2.5	30
QSFP30-03	3	30
QSFP26-05	5	26
QSFP24-06	6	24

Maximum Lengths

Gauge	IBTA DDR (meters)	IBTA QDR ¹ (meters)	IEEE 802.3ba (meters)
30	5	3	3
28	7	4	4
26	8	5 ²	5
24	10	6	n/a

¹ Per IBTA cable MOI VO.69: -13dB @5GHz

² May not meet IBTA QDR insertion loss limits but is acceptable for most InfiniBand and all Ethernet applications

Note: Contact customer service for additional lengths

Because we continuously improve our products, Siemon reserves the right to change specifications and availability without prior notice.

Plug	
Backshell Material	Nickel Plated Zinc Diecast
Contact Material	PCB with Gold-Plated Pads
Plastic Material	PA66
Latch	Positive Latching w/Pull Tab
Insertion Force	40N Max.
Withdrawal Force	30N Max.
Retention Force	90N Min.
Durability	250 Cycles
Tightest Recommended Vertical Spacing (Belly to Belly)	11.80 mm Center to Center
Tightest Recommended Vertical Spacing (Stacked)	17.50 mm Center to Center
Cable	
Conductor	Solid
Wire Gauge	30 AWG to 24 AWG
Impedance	100 +/- 5 ohms
Construction	Twinaxial
Cable OD	30 AWG = 6.50mm (0.256 in)
	28 AWG = 7.49mm (0.295 in)
	26 AWG = 8.61mm (0.339 in)
	24 AWG = 9.70mm (0.382 in)
Jacket Type	PVC
Bend Radius	5X Cable OD - Single 10X Cable OD - Repeated

For additional resource information:

Visit our web site at www.siemon.com/SIS

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ISO 9001
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