

## STANDARDS COMPLIANCE

- Electrical: SFF-8431, SFF-8083
- Mechanical: SFF-8432, EEPROM: SFF-8472

# High Speed SFP+Copper Cable



- Compatible with industry standard SFP cages + Switches
- EEPROM signature can be customized.

## APPLICATION

- 10G Ethernet
- InfiniBand, Fiber Channel 4G/8G/10G
- Sonet Multiplatform support
- High Performance Computing Clusters
- High End Servers
- Metro Network Switch/Cross Connect

Fiberon's SFP+ cable assemblies are designed to meet data center, networking and high performance computing application needs for a high density cabling interconnect system capable of 10Gb/s per channel transmission rates. They are designed to be fully compatible in form factor and optical/electrical connections according to meet the requirements of Small Form Factor industry standards.

SFP+ Connectors meet the harshest external operating conditions including temperature, humidity and EMI interference. Final test and quality systems assure high quality cable assemblies conforming to the high-speed electrical performance requirements in industry specifications.

Wire Gauge	Cable Diameter	Mini Outer Radius	Cable Length
	(mm)	(mm)	(m)
30AWG	4.5	22.5	1 ~ 3
28AWG	4.7	23.5	4 ~ 5
26AWG	5.0	25	5 ~ 6
24AWG	6.0	30	6 ~ 15

Standard Copper SFP+ assemblies are offered in different wire gauges (AWG) depending on length.

SFP+ cable assemblies are hot swappable and the programmed EEPROM signature enables the host to differentiate between a copper cable assembly and a fiber optic module.

Low power consumption assists in making the passive copper cable assembly an economic solution for within rack, or rack-to-rack applications.

# HIGH SPEED SFP+ COPPER CABLE



## PRODUCT CHARACTERISTICS



Test Type	Test Item	Target	Reference
Electrical Characteristics	Differential Mode RL (SDDII)	0.01<f<4.1 ; <-12+2*SQRT(f) 4.1<f<11.1 ; <-6.3+13*log10(f/5.5) Where f is in GHz Measurements units: dB	SFF 8431
	Common mode return loss (SCCII)	0.01<f<2.5 ; <-7+1.6(f) 2.5<f<11.1 ; <-3 Where f is in GHz Measurements units: dB	SFF 8431
	NEXT	<-26dB from 1MHz to 11GHz	/
	Cable assembly Impedence	100+/-100hm Rise time of 30 ps (20% - 80%)	(20%~80%)
	Insertion Loss Deviation	-1dB≤ILD≤1dB 300KHz≤f≤6GHz	/
Environmental Characteristics	Operating Temperature	-40~85°C	Cable operating temp. range
	Thermal Shock	Electrical performance meet the specification requirement	EIA-364-32D. Method A. TC-1. -55 10 85C,100 cycles, 15 min, dwells
	Cyclic Temp. & Humidity	Electrical performance meet the specification requirement	EIA-364-31 Method III, Test Cond A
	Salt spray	48 hours salt spraying after shell corrosive area less than 5%	EIA-364-26
	Temperature Life	Performance meets the specification requirement	EIA-364-17B w/ RH, Damp heat 85C at 85% RH for 500 hours
Mechanical Characteristics	Mechanical Vibration	Performance meets the specification requirement	EIA-364-28E.11 TC-VII, Test Cond. D 15minutes in X,Y,Z axis.
	Cable Plug Retention in Cage	90N Min.	No functional damage to cable plug below 90N. Per SFF-8432 Rev 5.0
	Cable Retention in Plug	90N Min.	EIA-455-6B
	Mechanical Shock	Performance meets the specification requirement	Clamp and Shock per EIA-364-27B, TC-G, 3times in 6directions, 100g, 6ms
	Cable plug Insertion	18N(Max.)	SFF-8432 Rev 5.0
	Cable plug extraction	12.5N(Max.)	SFF-8432 Rev 5.0
	Durability	50 Time. No evidence of physical damage	EIA-364-09; perform plug&unplug cycles Plug and Receptacle mate rate: 250times/hour

## ORDER CODES

CODE	TYPE	CABLE LENGTH	AWG	CABLE JACKET MATERIAL
F4M-	SFPP-C	SFP+/Copper	1 1m	30 30AWG 1 PVC
	SFPP-CA	SFP+/Copper Active	5 5m	28 28AWG 2 Non-Halogen
			10 10m	26 26AWG 3 Other
			5 Specify	24 24AWG

Note:

- 1) Copper type maximum length recommended at 15 meters
- 2) Various cable lengths available for all types
- 3) latch/tab available "On top or "Bottom" position

**F4M - SFPP-C - 5 - 28 - 1**

Specifications may change without notice. Display Product Photos Shown are samples for viewing, not actual products. Colours and styles may vary.

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