SFP+ 10G
Direct Attach Copper Passive and Active Cables

Siemon SFP+ active and passive single lane, copper direct attach cable assemblies (DAC) are fully-shielded, impedance matched assemblies combining twin-axial shielded cable configuration with robust die cast housings for enhanced support of high frequency data rates.

- Support data transfer rates up to 10+ Gb/s per lane, meeting or exceeding current standards specifications.
- Ensure interoperability and minimize EMI leakage through their fully-shielded design.
- The active cables use signal processing within the connector back shells to extend the length that copper cables can reach beyond the limits of passive copper solutions.
- Cost-effective alternative to optical modules for short reach links in high-speed interconnect applications such as high-performance computing (HPC), enterprise networking and network storage markets.

Applications

- Infiniband SDR, DDR and QDR
- Ethernet 1G, 10G
- Middle-of-Row

- Top-of-Rack
- Switch-to-Switch
- Switch-to-Server

- Networking
- Storage
- Hubs

- Routers
- Servers
- NIC

Multiple conductor sizes available

Bend relief

Enhanced EMI shielding for low emissions

Ultra low crosstalk for enhanced performance

Standard SFP+ latch interoperable with all compliant interfaces

PCB Termination

Laser stripped conductors

Overmold provides additional strain relief to minimize pistoning

Automated welding for unmatched consistency

Welding results in less dielectric shrink-back than soldering

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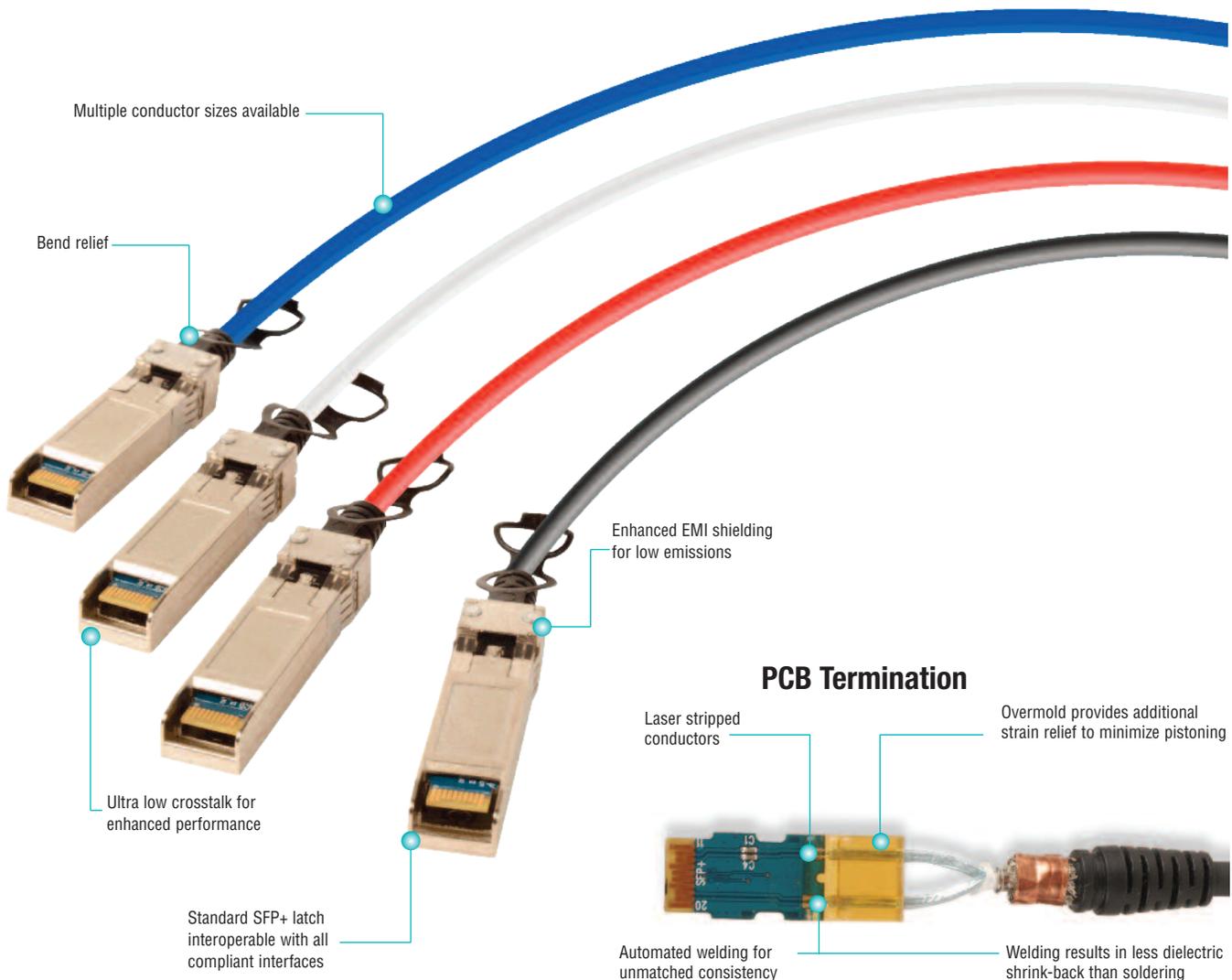
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Ordering Information:

SFP+ Passive/Active Copper Cable Assemblies

Part Number (Black)	Part Number (Colored)	Length	Gauge	Type
SFPP30-00.5(X)	SFPP30-00.5-(XX)(X)	0.5m (1.6 ft.)	30	Passive
SFPP30-01(X)	SFPP30-01-(XX)(X)	1m (3.3 ft.)	30	Passive
SFPP30-01.5(X)	SFPP30-01.5-(XX)(X)	1.5m (4.9 ft.)	30	Passive
SFPP30-02(X)	SFPP30-02-(XX)(X)	2m (6.6 ft.)	30	Passive
SFPP30-02.5(X)	SFPP30-02.5-(XX)(X)	2.5m (8.2 ft.)	30	Passive
SFPP30-03(X)	SFPP30-03-(XX)(X)	3m (9.8 ft.)	30	Passive
SFPP30-03.5(X)	SFPP30-03.5-(XX)(X)	3.5m (11.5 ft.)	30	Passive
SFPP30-04(X)	SFPP30-04-(XX)(X)	4m (13.1 ft.)	30	Passive
SFPP28-05(X)	SFPP28-05-(XX)(X)	5m (16.4 ft.)	28	Passive
SFPP24-07(X)	SFPP24-07-(XX)(X)	7m (23.0 ft.)	24	Passive
SFPPA28-07(X)	SFPPA28-07-(XX)(X)	7m (23.0 ft.)	28	Active
SFPPA28-08(X)	SFPPA28-08-(XX)(X)	8m (26.2 ft.)	28	Active
SFPPA28-09(X)	SFPPA28-09-(XX)(X)	9m (29.5 ft.)	28	Active
SFPPA28-10(X)	SFPPA28-10-(XX)(X)	10m (32.8 ft.)	28	Active

Color Options Available: ■ □ ■ ■

Use (X) to specify LS0H: L = CM/LS0H, Blank = PVC
Use (XX) to specify color: 02 = White, 03 = Red, 06 = Blue, Blank = Black

Standards Compliance	
Electrical	SFF-8431, SFF-8083
Mechanical	SFF-8432
EEPROM	SFF-8472
RoHS	

Plug	
Backshell Material	Nickel-Plated Zinc Diecast
Contact Material	PCB with Gold-Plated Pads
Latch	Positive Latching w/ Pull
Insertion Force	30N (6.7 lbf.) Max
Withdrawal Force	20N (4.5 lbf.) Max
Retention Force	90N (20.2 lbf.) Max
Durability	50 Cycles Min
Cable	
Conductor	Solid
Wire Gauge	30 AWG to 24 AWG
Impedance	100± 5 ohms
Construction	Twinaxial
Cable OD	30 AWG = 4.2mm (0.165 in.)
	28 AWG = 4.7mm (0.185 in.)
	24 AWG = 6mm (0.236 in.)
Jacket Type	PVC or CM/LS0H
Bend Radius	5X Cable OD

Electrical	
Min. Dielectric Withstand Voltage	300 VDC
Insulation Resistance	1000 Mohms
Current Rating	0.5 Amp Min/Signal Contact
Power Consumption (active cables only)	700mw Max
General	
Operating Temperature	-10 to 70°C (14 to 158°F)
Flammability Rating	UL 94 V-0
Green Features	RoHS, Lead-Free
Shield	Braid/Foil
Marking	Mfg Name, Part #, Date Code

Color-Coded Cable Clips:

Our color-coded cable clips are designed to be highly visible, have a secure fit to the cable and easily field attachable to Siemon SFP+ cables. With 8 available colors to choose from, these color-coded cable clips provide Data Center Administrators the ability to customize their cables to clearly differentiate and identify various networks.

Part#	Description
CLIP-CBL-50-(XX)..............	Color-coded cable clip, 30 and 28 AWG, bag of 25 clips
CLIP-CBL-62-(XX)..............	Color-coded cable clip, 26 and 24 AWG, bag of 25 clips

Use (XX) to specify color:
02 = White, 03 = Red, 04 = Grey, 05 = Yellow, 06 = Blue, 07 = Green, 08 = Violet, 09 = Orange

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