

# SFP+ Twinax Copper Cable Assemblies

SFP+ active and passive copper cable assemblies from Siemon were developed specifically as a 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. These assemblies support data transfer rates up to 10+ Gb/s per lane, meeting or exceeding current standards specifications.

These SFP+ fully-shielded assemblies combine twin-axial shielded cable configuration with robust die cast housings for enhanced support of high frequency data rates. These SFP+ assemblies are impedance matched to 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.

Multiple conductor sizes available

Enhanced EMI shielding for low emissions

Ultra low crosstalk for enhanced performance

Standard SFP+ latch interoperable with all compliant interfaces

Bend relief

**STANDARDS COMPLIANCE**

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

**APPLICATIONS**

- InfiniBand SDR, DDR and QDR
- Ethernet 1G, 10G and 40G
- Fibre Channel
- Rack-to-Rack, Top of Rack (TOR) and Core Switch
- Networking
- Storage
- Hubs, switches, routers, servers

## PCB Termination

Color-coded Cable Clips (optional)

Laser stripped conductors

Overmold provides additional strain relief to minimize pistoning

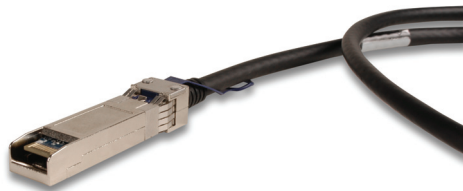
Automated welding for unmatched consistency

Welding results in less dielectric shrink-back than soldering

# Product Information

## PERFORMANCE SPECIFICATIONS

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



## Ordering Information:

SFP+ Active/Passive Copper Cable Assembly, Double-ended, Black

Part Number	Length	Gauge
SFPP30-00.5	0.5m (1.6 ft.)	30
SFPP30-01	1m (3.3 ft.)	30
SFPP30-01.5	1.5m (4.9 ft.)	30
SFPP30-02	2m (6.6 ft.)	30
SFPP30-02.5	2.5m (8.2 ft.)	30
SFPP30-03	3m (9.8 ft.)	30
SFPP28-05	5m (16.4 ft.)	28
SFPP24-07	7m (23.0 ft.)	24
SFPPA28-07*	7m (23.0 ft.)	28
SFPPA28-10*	10m (32.8 ft.)	28

\*=Active

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

## FOR ADDITIONAL RESOURCE INFORMATION:

Visit our web site at [www.siemon.com/SIS](http://www.siemon.com/SIS)

## SIEMON INTERCONNECT SOLUTIONS

Watertown, CT USA

Phone (1) 860 945-4213

E-Mail - Customer Service. - [SIS\\_customerservice@siemon.com](mailto:SIS_customerservice@siemon.com)

E-Mail - Technical Support. - [SIS\\_techsupport@siemon.com](mailto:SIS_techsupport@siemon.com)

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 = 4.5mm (0.18 in.)
	28 AWG = 4.7mm (0.19 in.)
	24 AWG = 6.2mm (0.24 in.)
Jacket Type	PVC
Bend Radius	5X Cable OD

## Color-Coded Cable Clips:

Our color-coded cable clips are designed to be highly visible, have a secure fit to the cable and can be easily field attached 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



## 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=gray, 05=yellow, 06=blue, 07=green, 08 = violet, 09 = orange