

SPH-SFP+CX

SFP+ Direct Attach Passive Copper Cables,0.5m,1m,3m,5m,7m,10m Reach



Features

- Support for multi-gigabit data rates up to 10.5Gbps
- Data rates backward compatible to 1Gbps
- Hot-pluggable SFP 20PIN footprint
- I/O Connector designed for high speed differential signal applications
- Improved Pluggable Form Factor(IPF) compliant for enhanced EMI/EMC performance
- Compatible to SFP+ MSA
- Temperature Range: 0~ 70 °C
- Comply with RoHS 2.0

Applications

- High capacity I/O in Storage Area Networks, Network Attached Storage, and Storage Servers
- Switched fabric I/O such as ultra high bandwidth switches and routers
- Data center cabling infrastructure
- High density connections between networking equipment

Description

The DAC SFP+ cable assemblies are high-performance, cost effective I/O solutions for 10Gb Ethernet and 10G Fibre Channel applications. SFP+ passive copper modules allow hardware manufacturers to achieve high port density, configurability and utilization at a very low cost and to reduce power budget. The high-speed cable assemblies meet and exceed the performance and reliability requirements stipulated by Gigabit Ethernet and Fibre Channel industry standard.

Recommended Operating Conditions

Parameter	Symbol	Min	Typical	Max	Unit
Storage Ambient Temperature		-40		+85	°C
Operating Case Temperature	Tc	-40		+85	°C

Systems

Performance	Media
10.5 Gpbs line speed, full duplex Bit error rate: better than 10E ⁻¹²	Hot-pluggable, industry-standard Small Form-Factor Pluggable(SFP+) copper cable, available as 1m,3m or 5m.

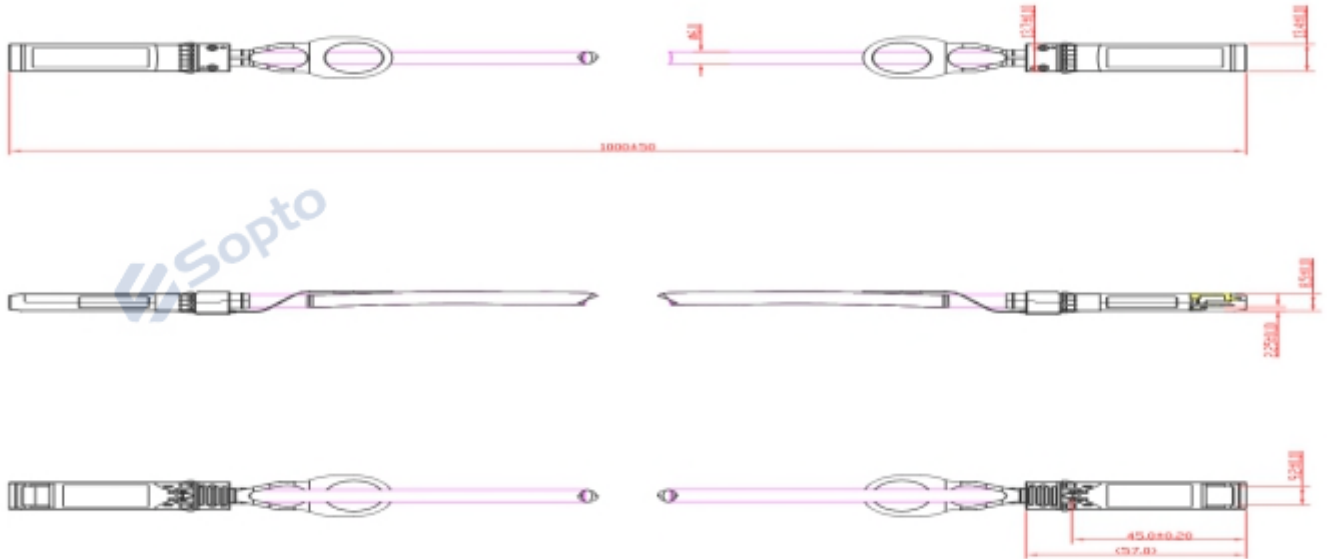
Pin Function Definitions

Pin	Logic	Symbol	Name/Description	
1		VeeT	Transmitter Ground	
2	LV-TTL-0	TX_Fault	N/A	1
3	LV-TTL-I	TX_DIS	Transmitter Disable	2
4	LV-TTL-I/0	SDA	Tow Wire Serial Data	
5	LV-TTL-I	SCL	Tow Wire Serial Clock	
6		MOD_DEFO	Module present, connect to VeeT	
7	LV-TTL-I	RS0	N/A	1
8	LV-TTL-0	LOS	LOS of Signal	2
9	LV-TTL-I	RS1	N/A	1
10		VeeR	Reciever Ground	
11		VeeR	Reciever Ground	
12	CML-0	RD-	Reciever Data Inverted	
13	CML-0	RD+	Reciever Data Non-Inverted	
14		VeeR	Reciever Ground	
15		VccR	Reciever Supply 3.3V	
16		VccT	Transmitter Supply 3.3V	
17		VeeT	Transmitter Ground	
18	CML-I	TD+	Transmitter Data Non-Inverted	
19	CML_I	TD-	Transmitter Data Inverted	
20		VeeT	Transmitter Ground	

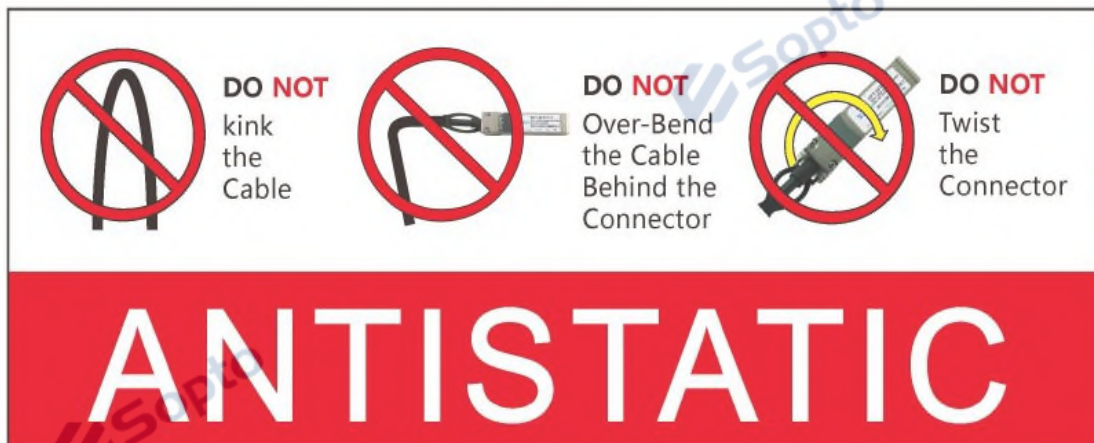
Note:

1. Signals not supported in SFP+ Copper pulled-down to VeeT with 30K ohms resistor
2. Passive cable assemblies do not support LOS and TX_DIS

Mechanical Dimensions



Unit:mm



Ordering information

Part Number	Diameter	Remark
SPH-SFP+CX-30	AWG30	X=0.5 ~ 3
SPH-SFP+CX-28	AWG28	X=0.5 ~ 10
SPH-SFP+CX-24	AWG24	X=0.5 ~ 10

Note:

- 1、 X refers to the cable length (m).
- 2、 Default jacket material is PVC.
- 3、 Default operating case temperature is 0 ~ 70°C. If you need -40 ~85°C products, add “T” after Part Number .
- 4、 If you need more customized services, please contact us.

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Web : <http://www.sopto.com>

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