



SPH-SFP-CX

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



Features

- Support for multi-gigabit data rates up to 1.25Gbps
- 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 1.25Gb Ethernet and 1.25G 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 |
|---|---|
| 1.25 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

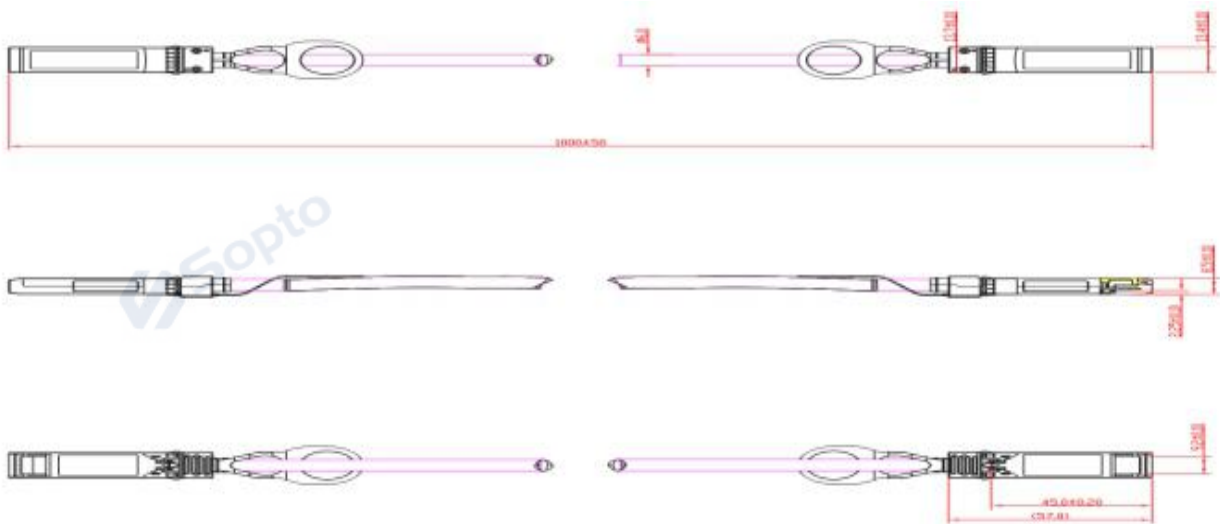
| Pin | Logic | Symbol | Name/Description | |
|-----|------------|----------|---------------------------------|---|
| 1 | | VeeT | Transmitter Ground | |
| 2 | LV-TTL-O | TX_Fault | N/A | 1 |
| 3 | LV-TTL-I | TX_DIS | Transmitter Disable | 2 |
| 4 | LV-TTL-I/O | SDA | Tow Wire Serial Data | |
| 5 | LV-TTL-I | SCL | Tow Wire Serial Clock | |
| 6 | | MOD_DEF0 | Module present, connect to VeeT | |
| 7 | LV-TTL-I | RS0 | N/A | 1 |
| 8 | LV-TTL-O | LOS | LOS of Signal | 2 |
| 9 | LV-TTL-I | RS1 | N/A | 1 |
| 10 | | VeeR | Reciever Ground | |
| 11 | | VeeR | Reciever Ground | |
| 12 | CML-O | RD- | Reciever Data Inverted | |
| 13 | CML-O | 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 | |



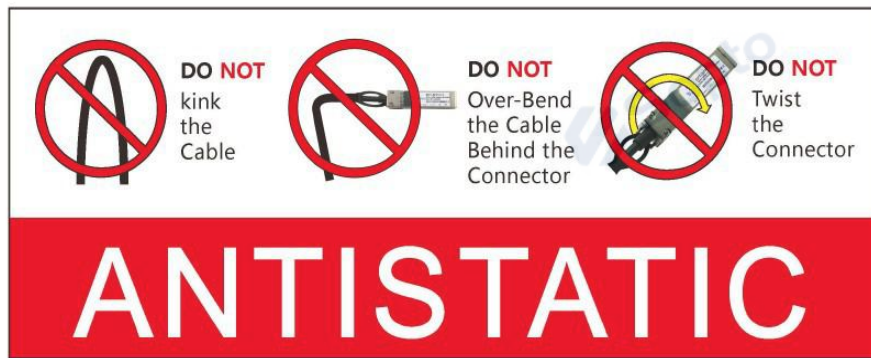
Note:

- 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



Unit:mm



Ordering information

| Part Number | Diameter | Remark |
|---------------|----------|----------|
| SPH-SFP-CX-30 | AWG30 | X=1 ~ 3 |
| SPH-SFP-CX-28 | AWG28 | X=3 ~ 10 |
| SPH-SFP-CX-24 | AWG24 | X=1 ~ 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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