

## 10GSFP-PC-30-XFM

SFP+ Passive Direct Attach Copper Cables

0.5M, 0.65M, 1M, 1.2M 1.5M, 2M, 3M, 5M, 6M, 7M Reach



### Product 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<br>Bit error rate: better than 10E-12 | Hot-pluggable, industry-standard Small Form-Factor Pluggable(SFP+) copper cable, available as 1m,3m or 5m. |

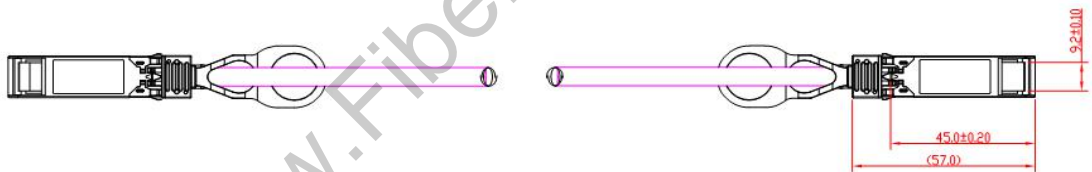
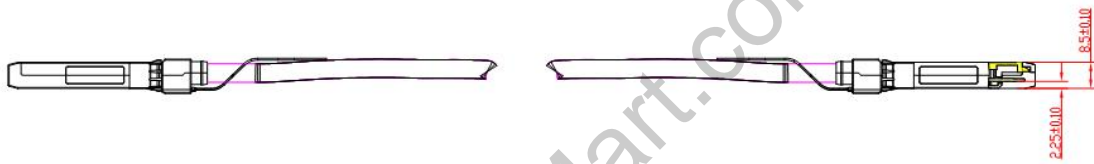
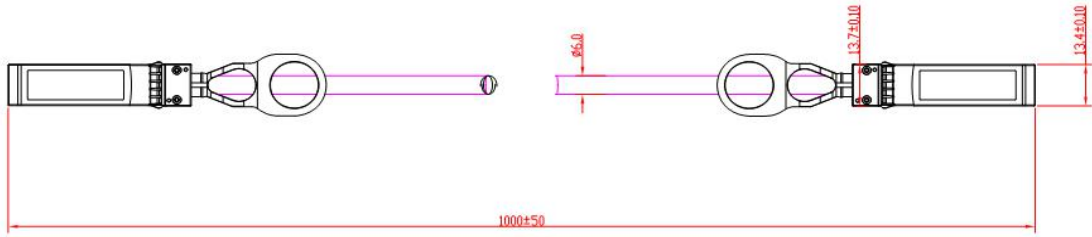
## Pin Descriptions

| Pin | Logic      | Symbol   | Name/Description                | Notes |
|-----|------------|----------|---------------------------------|-------|
| 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     | Receiver Ground                 |       |
| 11  |            | VeeR     | Receiver Ground                 |       |
| 12  | CML-O      | RD-      | Receiver Data Inverted          |       |
| 13  | CML-O      | RD+      | Receiver Data Non-Inverted      |       |
| 14  |            | VeeR     | Receiver Ground                 |       |
| 15  |            | VccR     | Receiver 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              |       |

**Notes:**

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



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## Ordering Information

| Part Number         | Product Description   |
|---------------------|---|
| 10GSFP-PC-30-0.5FM  | SFP+ Direct Attach Passive Cable (10G SFP+ Cu), 0.5m (1.6ft), AWG 30, 0° C ~ +70° C |
| 10GSFP-PC-30-0.65FM | SFP+ Direct Attach Passive Cable (10G SFP+ Cu), 0.65m (2ft), AWG 30, 0° C ~ +70° C  |
| 10GSFP-PC-30-1FM    | SFP+ Direct Attach Passive Cable (10G SFP+ Cu), 1m (3ft), AWG 30, 0° C ~ +70° C     |
| 10GSFP-PC-30-1.2FM  | SFP+ Direct Attach Passive Cable (10G SFP+ Cu), 1.2m (4ft), AWG 30, 0° C ~ +70° C   |
| 10GSFP-PC-30-1.5FM  | SFP+ Direct Attach Passive Cable (10G SFP+ Cu), 1.5m (5ft), AWG 30, 0° C ~ +70° C   |
| 10GSFP-PC-30-2FM    | SFP+ Direct Attach Passive Cable (10G SFP+ Cu), 2m (7ft), AWG 30, 0° C ~ +70° C     |
| 10GSFP-PC-30-3FM    | SFP+ Direct Attach Passive Cable (10G SFP+ Cu), 3m (10ft), AWG 30, 0° C ~ +70° C    |
| 10GSFP-PC-24-5FM    | SFP+ Direct Attach Passive Cable (10G SFP+ Cu), 5m (16ft), AWG 24, 0° C ~ +70° C    |
| 10GSFP-PC-24-6FM    | SFP+ Direct Attach Passive Cable (10G SFP+ Cu), 6m (20ft), AWG 24, 0° C ~ +70° C    |
| 10GSFP-PC-24-7FM    | SFP+ Direct Attach Passive Cable (10G SFP+ Cu), 7m (23ft), AWG 24, 0° C ~ +70° C    |