

CAB-SFP-SFP-3M-C

10GBase-CU SFP+ to SFP+ 3m Direct Attach Cable

Features

- True broadband – operates from 1 to 10.5Gb/s
- Support hot-pluggable
- Available in lengths from 1m to 7m
- 360-degree cable braid crimp and enhanced EMI skirt
- Low insertion loss and low crosstalk
- Single 3.3V power supply
- RoHS Compliant and Lead-Free
- Compliant with SFF-8472 Rev11.1
- Compliant with SFP+ MSA: SFF-8431 Rev4.1
- Wire/Cable Type Twinax

Application

- 1/10GbE
- 1/2/4/8x FC
- InfiniBand 1X SDR DDR QDR
- Proprietary Interconnects

Product Description

This is a Juniper Networks® CAB-SFP-SFP-3M-C compatible 10GBase-CU SFP+ to SFP+ direct attach cable that operates over passive copper with a maximum reach of 3.0m (9.8ft). It has been programmed, uniquely serialized, and data-traffic and application tested to ensure it is 100% compliant and functional. This direct attach cable is TAA (Trade Agreements Act) compliant and is built to comply with MSA (Multi-Source Agreement) standards. We stand behind the quality of our products and proudly offer a limited lifetime warranty.

Systems

| Parameter | Media |
|--|--|
| 10 Gb/s line speed, full duplex Bit error rate: better than 10E-12 | Hot-pluggable, industry-standard Small Form-Factor Pluggable (SFP+) copper cable, available as 3m. |

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

Recommended Operating Conditions

| Parameter | Symbol | Min | Typ. | Max. | Unit |
|----------------------------|--------|------|------|-------------------|------|
| Power Supply Voltage | Vcc | 3.13 | 3.30 | 3.47 | V |
| Power Supply Current | Icc | | | 30 | mA |
| Case Operating Temperature | Tc | -5 | | +70 | °C |
| Data Rate, each Lane | | | | 10.5 | Gbps |
| Bit Error Rate | BER | | | 10 ⁻¹² | |

Cable Specifications

| Parameter | Symbol | Min | Typ. | Max. | Unit |
|-------------------------------|--------|-----|------|------|----------|
| Cable Diameter (24AWG) | DIA | | 6 | | mm |
| Cable Diameter (28AWG) | DIA | | 4.7 | | mm |
| Cable Diameter(30AWG) | DIA | | 4.5 | | mm |
| Time Delay Skew (Within Pair) | Tds | | | 10 | ps/m |
| Cable Time Delay | Td | | 4.3 | | ns/m |
| Cable Impedance | Z | 90 | 100 | 110 | Ω |

Mechanical Specification

