

AB013 - 10G SFP+ Direct Attach Cable 2Meter



General Description

SFP+ Direct Attach Cables are compliant with the SFF-8431, SFF-8432 and SFF-8472 specifications.

Features

- Compliant with SFF-8431, 8432 and 8472.
- Up to 10.3125Gbps data rate per channel
- Up to 2m transmission
- Operating temperature: 0 to + 70°C
- Single 3.3V power supply
- RoHS compliant

Benefits

- Cost-effective copper solution
- Lowest total system power solution
- Lowest total system EMI solution
- Optimized design for Signal Integrity

Applications

- 10G Ethernet

Pin Function Definition

Pin Logic Symbol Description

- 1 VeeT Module Transmitter Ground
- 2 LVTTL-O Tx_Fault Module Transmitter Fault
- 3 LVTTL-I Tx_Disable Transmitter disable; Turns off transmitter laser output
- 4 LVTTL-I/O SDA 2-wire Serial Interface Data Line (Same as MOD-DEF2 in INF-8074i)
- 5 LVTTL-I/O SCL 2-wire Serial Interface Clock (Same as MOD-DEF1 in INF-8074i)
- 6 Mod_ABS Module Absent, connected to VeeT or VeeR in the module
- 7 LVTTL-I RS0 Rate Select 0, optionally controls SFP+ module receiver
- 8 LVTTL-O Rx_LOS Receiver Loss of Signal Indication (In FC designated as Rx_LOS and in Ethernet designated as Signal Detect)
- 9 LVTTL-I RS1 Rate Select 1, optionally controls SFP+ module transmitter
- 10 VeeR Module Receiver Ground
- 11 VeeR Module Receiver Ground
- 12 CML-O RD- Receiver Inverted Data Output
- 13 CML-O RD+ Receiver Non-Inverted Data Output
- 14 VeeR Module Receiver Ground
- 15 VccR Module Receiver 3.3 V Supply
- 16 VccT Module Transmitter 3.3 V Supply
- 17 VeeT Module Transmitter Ground
- 18 CML-I TD+ Transmitter Non-Inverted Data Input
- 19 CML-I TD- Transmitter Inverted Data Input
- 20 VeeT Module Transmitter Ground

SFP+ DAC Specifications

- Number of Lanes Tx & Rx
- Channel Data Rate 10.3125 Gbps
- Operating Temperature 0 to + 70°C
- Storage Temperature -40 to + 85°C
- Supply Voltage 3.3 V nominal
- Electrical Interface 20 pins edge connector
- Management Interface Serial, I²C

Mechanical Specifications

The connector is compatible with the SFF-8432 specification.

