

SFP+ Passive Direct Attach Copper (DAC) Cables

ARIA SFP+ Passive Direct Attach Copper (DAC) cable assemblies, also known as Twinax Cables, are high performance, cost effective I/O solutions for 10G Ethernet and 10G Fiber Channel applications.

They are hot-pluggable, industry-standard Small Form-Factor Pluggable (SFP+) copper cables, available in 1 meter, 3 meter or 5 meter lengths.

SFP+ copper modules allow hardware manufactures to achieve high port density, configurability and utilization at a very low cost and reduced power budget.

These high speed cable assemblies meet and exceed Gigabit Ethernet and Fiber Channel industry standard requirements for performance and reliability.

They feature 10.5 Gbps line speed, full duplex performance and a bit error rate that is better than 10×10^{-12} .



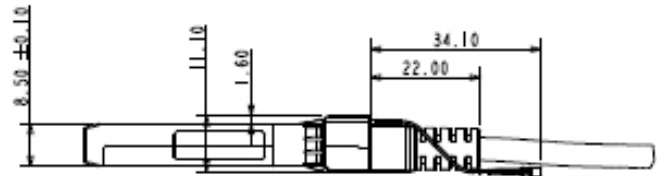
Features

- Support for multi-gigabit data rates up to 10.5 Gbps
- Data rates backward compatible to 1 Gbps
- 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
- Operating Temperature Range: 0~70 °C
- Storage Temperature Range: -40~85 °C
- Compatible with SFP+ MSA
- RoHS Compatible

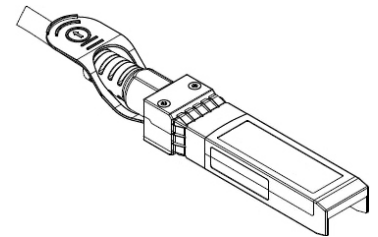
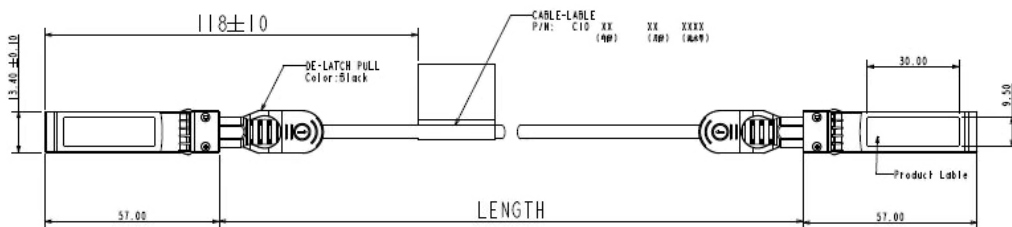


Applications

- 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



Detailed View



SFP+ Passive Direct Attach Copper (DAC) Cables

Serial Number Label on the Cable:



Pin Descriptions

Pin	Logic	Symbol	Name/Description	Notes
1		VeeT	Transmitter Ground	
2	LV-TTL-O	TX_Fault	N/A	Signals not supported in SFP+ Copper pulled-down to VeeT with 30K ohms resistor
3	LV-TTL-I	TX_DIS	Transmitter Disable	Passive cable assemblies do not support LOS and TX_DIS
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	Signals not supported in SFP+ Copper pulled-down to VeeT with 30K ohms resistor
8	LV-TTL-O	LOS	LOS of Signal	Passive cable assemblies do not support LOS and TX_DIS
9	LV-TTL-I	RS1	N/A	Signals not supported in SFP+ Copper pulled-down to VeeT with 30K ohms resistor
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 3.3 V	
16		VccT	Transmitter Supply 3.3 V	
17		VeeT	Transmitter Ground	
18	CML-I	TD+	Transmitter Data Non-Inverted	
19	CML-I	TD-	Transmitter Data Inverted	
20		VeeT	Transmitter Ground	

Part Number

Part Number	Product Description
SFP+SFP+-01M	SFP+ Direct Attach Passive Cable (10GSFP+Cu), 1 meter, 30 AWG
SFP+SFP+-03M	SFP+ Direct Attach Passive Cable (10GSFP+Cu), 3 meter, 30 AWG
SFP+SFP+-05M	SFP+ Direct Attach Passive Cable (10GSFP+Cu), 5 meter, 24 AWG