

#### CAB-S-S-P-xxM

### 10.3Gb/s SFP+ Passive Cable

#### Product Features

- ✓ Truly broadband operates from 1 to 10.5
  Gb/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 Rev 11.1
- ✓ Compliant with SFP+ MSA: SFF-8431 Rev4.1
- ✓ Wire/Cable Type Twinax



## Applications

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

#### General

Passive cables may require host pre-emphasis and equalization to reach at the longer lengths.



## Product Selection

Part Number	Lengths	Conductor Size	Note
CAB-S-S-P-01M	1m	24/28/30 AWG	1,2
CAB-S-S-P-1.5M	1.5m	24/28/30 AWG	1,2
CAB-S-S-P-02M	2m	24/28/30 AWG	1,2
CAB-S-S-P-2.5M	2.5m	24/28/30 AWG	1,2
CAB-S-S-P-03M	3m	24/28/30 AWG	1,2
CAB-S-S-P-05M	5m	24/28 AWG	1,2
CAB-S-S-P-07M	7m	24 AWG	1,2

#### Note:

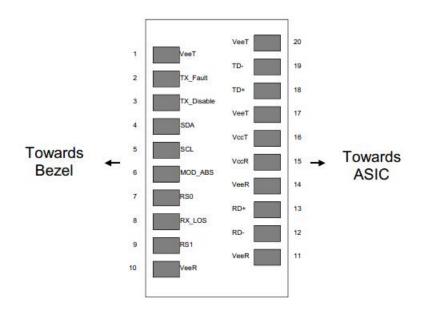
- 1, yy=30,28,24,present wire size AWG
- 2, 24 AWG is default

# Pin Descriptions

Pin	Symbol	Name/Description		
1	VeeT	Transmitter Ground (Common with Receiver Ground)		
2	TX Fault	Transmitter Fault. LVTTL-O		
3	TX Disable	Transmitter Disable. Laser output disabled on high or open.		
3	TA Disable	LVTTL-I		
4	SDA	2-Wire Serial Interface Data Line(Same as MOD-DEF2 in		
4	SDA	INF-8074i). LVTTL-I/O		
5 SCL		2-Wire Serial Interface Data Line(Same as MOD-DEF2 in		
		INF-8074i). LVTTL-I		
6	Mod_ABS Module Absent, Connect to VeeT or VeeR in Module.			
7	RS0	Rate Select 0, optionally controls SFP+ module receiver		
/	Nou	LVTTL-I		



8 LOS	Loss of Signal indication. Logic 0 indicates normal operation.	
	LVTTL-O	
. 504		Rate Select 1, optionally controls SFP+ module transmitter.
9	RS1	LVTTL-I
10	VeeR	Receiver Ground (Common with Transmitter Ground)
11	VeeR	Receiver Ground (Common with Transmitter Ground)
12	RD-	Receiver Inverted DATA out. AC Coupled. CML-O
13	RD+	Receiver Non-inverted DATA out. AC Coupled. CML-O
14	VeeR	Receiver Ground (Common with Transmitter Ground)
15	VccR	Receiver Power Supply
16	VccT	Transmitter Power Supply
17	VeeT	Transmitter Ground (Common with Receiver Ground)
18	TD+	Transmitter Non-Inverted DATA in. AC Coupled. CML- I
19	TD-	Transmitter Inverted DATA in. AC Coupled. CML- I
20	VeeT	Transmitter Ground (Common with Receiver Ground)





### **Pin-out of Connector Block on Host Board**

# **Absolute Maximum Ratings**

Parameter	Symbol	Min	Тур	Max	Unit	Ref.
Maximum Supply Voltage	Vcc	-0.5		+4.0	V	
Storage Temperature	TS	-40		+85	°C	
Operating Humidity	RH	0		85	%	

# Recommended Operating Conditions

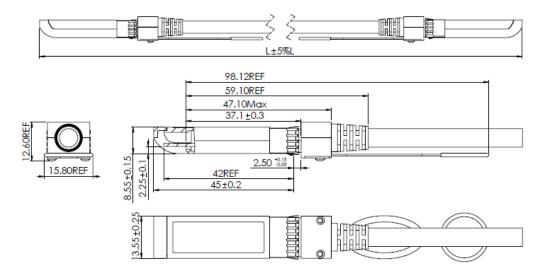
Parameter	Symbol	Min	Тур	Max	Unit	Ref.
Power Supply Voltage	Vcc	3.13	3.30	3.47	V	
Power Supply Current	Icc			120	mA	One side
Case Operating Temperature	Тс	0		+70	°C	
Data Rate, each Lane				10.5	Gbps	
Bit Error Rate	BER			10-12		

# Cable Specifications

Parameter	Symbol	Min	Тур	Max	Unit	Note
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	

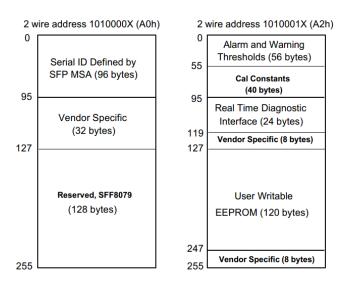


## Mechanical Specifications



### EEPROM Information

EEPROM memory map specific data field description is as below:



## Regulatory Compliance

- ESD to the Electrical PINs: compatible with MIL-STD-883E Method 3015.7
- Immunity compatible with IEC 61000-4-3
- EMI compatible with FCC Part 15 Class B EN55022 Class B
- RoHS compliant with 2002/95/EC 4.1&4.2 2005/747/EC