

10G SFP+ Passive Copper Cable

Features

- Wire AWG:AWG30,AWG28,AWG26,AWG24
- Cable type:Passive Copper Twinax Cable
- Up to 10.3125Gbps data rate
- Low power consumption<0.5W
- Power supply:+3.3V
- Small diameter cable design
- Hot pluggable
- Operating case temperature: 0~+70°C
- RoHS compliant

Applications

- High-speed storage area networks
- Custom high-speed data pipes
- LTE optical repeater application

Compliance

- 1/2/4/8G Fibre Channel
- Compliant with MSA SFF-8472
- Compliant with MSA SFF-8431、SFF-8432



Description

The SFP+ passive cable assemblies are high performance, cost effective I/O solutions for 10G Ethernet and 10G Fiber Channel applications. SFP+ copper modules allow hardware manufactures to achieve high port de nsity, configurability and utilization at a very low cast and reduced power budget. The high speed cable assemblies meet and exceed Gigabit Ethernet and Fiber Channel industry standard requirements for performance and reliability.

Specification

Table1-Absolute Maximum Ratings					
Parameter	Symbol	Min	Max	Unit	
Storage Temperature	Ts	-40	+85	°C	
Operating Case Temperature	Тс	0	+70	℃	
Supply Voltage	Vcc	0	3.6	V	
Relative Humidity	RH	5	95	%	

ble2-Performance Specification					
Electrical					
Min.Dielectric Withstand Voltage	300VDC				
Insulation Resistance	1000 Mohms				
Current Rating	0.5 Amp Min/Signal Contact				
	General				
Flammability Rating	UL94V-0				
Green Features	RoHS,Lead-Free				
Shield	Braid/Foil				
Marking Mfg Name,Part#,Date Code					
	Plug				
Backshell Material	Nickel-Plated Zinc Diecast				
Contact Material	PCBwith Gold-Plated Pads				
Latch	Positive Latching w/Pull				
Insertion Force	30N Max				
Withdrawal Force	20N Max				
Retention Force	90N Max				
	Cable				
Conductor	Solid				
Wire Gauge	AWG30,AWG28,AWG26,AWG24				
Impedance	100±5ohms				
	AWG30:4.2mmA				
Cable OD	AWG28:4.7mmA				
Cable OD	AWG26:5.2mmA				
	AWG24:6.0mmA				



Table3-Electrical Characteristics

Test Type	Test Item	24AWG	26AWG	28AWG	30AWG
	Differential impedance	100±5Ω@TDR	100±5Ω	100±5Ω	100±5Ω @TDR
	Mutual capacitance	14pF/ft nominal	14pF/ft nominal	14pF/ft nominal	14pF/ft nominal
		1.31ns/ft			1.35ns/ft
	Time delay	nominal,(4.3ns/m)	1.35ns/ft nominal	1.35ns/ft nominal	nominal,(4.3ns/m)
		nominal			nominal
Electrical	Time delays	80ps/10m	120ps/8.5m	120ps/7m	50ps/5.5m
Characteristics	kew(within pairs)	maximum	maximum	maximum	maximum
	Time delays	350ps/10m	500ps/8.5m	500ps/7m	350ps/5.5m
	kew(between pairs)	maximum	maximum	maximum	maximum
		10dB/10m	10dB/8.5m	10dB/7m	8.4dB/5.5m
	Attenuation	maximum@1.25G	maximum@1.25G	maximum@1.25G	maximum@1.25G
		hz	hz	hz	hz
	Conductor DC	0.026Ω/ft	0.04Ω /ft	0.06Ω /ft	0.01Ω /ft
	Resistance	maximum@20°C	maximum@20° C	maximum@20° C	maximum@20° C



Pin Description

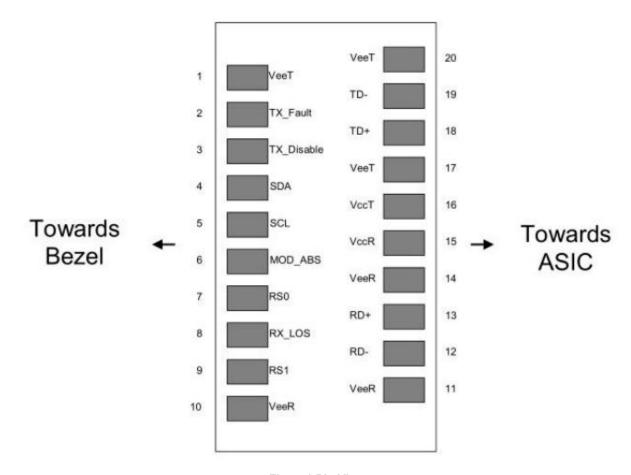


Figure1 Pin View

PIN	Symbol	Name / Description	Power Sequence Order	Note
1	VeeT	Module Transmitter Ground	1st	
2	TX_Fault	N/A	3rd	
3	TX_Dis	Transmitter Disable	3rd	
4	SDA	Tow Wire Serial Data 5LV	3rd	
5	SCL	TowWire Serial Clock	3rd	
6	MOD_ABS	Module present,connect to VeeT	3rd	
7	RS0	N/A	3rd	
8	RX_LOS	LOS of Signal	3rd	
9	RS1	N/A	3rd	
10	VeeR	Module Receiver Ground	1st	
11	VeeR	Module Receiver Ground	1st	
12	RD-	Receiver Inverted Data Output	3rd	
13	RD+	Receiver Data Output	3rd	



14	VeeR	Module Receiver Ground	1st	
15	VccR	Module Receiver 3.3 V Supply	2nd	
16	VccT	Module Receiver 3.3 V Supply	2nd	
17	VeeT	Module Transmitter Ground	1st	
18	TD+	Transmitter Non-Inverted Data Input	3rd	
19	TD-	Transmitter Inverted Data Input	3rd	
20	VeeT	Module Transmitter Ground	1st	

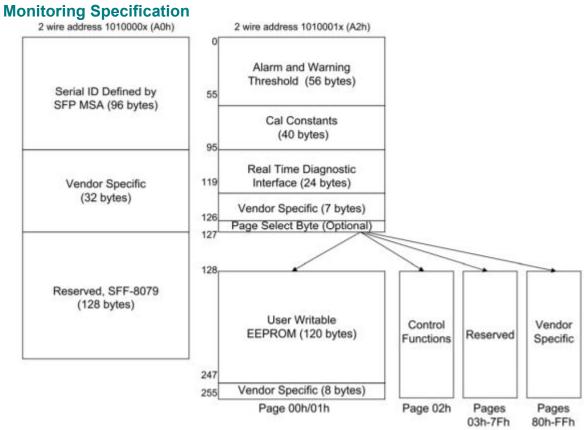


Figure 2 Memory Map

Regulatory Compliance

Table5-RatingsRegulatory		
Feature	Test Method	Performance
Electrostatic Discharge (ESD) to the Electrical Pins	MIL-STD-883C Method 3015.7	Class 1(>2000 Volts)
Electromagnetic Interference(EMI)	FCC Class B	
	CENELEC EN55022 Class B	Compliant with Standards
	CISPR22 ITE Class B	
RF Immunity(RFI)	IEC61000-4-3	Typically Show no Measurable Effect from a 10V/m Field Swept from 80 to 1000MHz
RoHS Compliance	RoHS Directive 2011/65/EU and it's Amendment Directives 6/6	RoHS 6/6 compliant



Caution

All adjustments have been done at the factory before the shipment of the devices. No maintenance and user serviceable part is required. Tampering with and modifying the performance of the device will result in voided product warranty.

Contact Information

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