

Features

- Up to 25.78125 Gbps data rate
- Up to 5 meter transmission
- Hot-pluggable SFP 20PIN footprint
- Improved Pluggable Form Factor(IPF) compliant for enhanced

EMI/EMC performance

- Compatible to SFP28 MSA
- Compatible to SFF-8402 and SFF-8432
- Power consumption < 0.1 W
- Temperature Range: 0~ 70°C
- RoHS Compatible

Applications

25GE Ethernet

Product Description

The SFP28 passive cable assemblies are high performance, cost effective I/O solutions for 25G Ethernet. SFP28 copper cables allow hardware manufactures to achieve high port density, configurability and utilization at a very low cast and reduced power budget.

Recommended Operating Conditions

Parameter	Symbol	Min	Typical	Max	Unit
Storage Ambient Temperature		-40		+85	°C
Operating Case Temperature	Тс	0		+70	°C
Power Supply Voltage	VCC3	3.14	3.3	3.47	V
Power consumption				0.1	W





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Data Rate Per Lane		1		25.78	Gb/s
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High Speed Characteristics

Parameter	Symbol	Min	Typical	Max	Unit	Note
Differential Impedance (bulk cable)	RIN1,P-P	95	100	110	Ω	
Differential Impedance (Mated connector)	Rin2,P-P	90	100	110	Ω	
Differential Impedance(cable termination)	Rin3,P-P	85	100	110	Ω	
Insertion loss	SDD21			22.48	dB	At 12.8906 GHz
Differential Return Loss	SDD11			See 1	dB	At 0.05 to 4.1 GHz
	SDD22			See 2	dB	At 4.1 to 19 GHz
Common-mode to	SCC11	2			dB	At 0.2 to 19 GHz
common-mode output return loss	SCC22					
Differential to common-mode return loss	SCD11			See 3	۹D	At 0.01 to 12.89 GHz
	SCD22			See 4	dB	At 12.89 to 19 GHz
Differential to common Mode Conversion Loss				10	dB	At 0.01 to 12.89 GHz
	SCD21			See 5		At 12.89 to 15.7 GHz
				6.3		At 15.7 to 19 GHz
Channel Operating Margin	СОМ	3			dB	

Notes:

- 1. Reflection Coefficient given by equation SDD11(dB) < 16.5 2 × SQRT(f), with f in GHz
- 2. Reflection Coefficient given by equation $DD11(dB) < 10.66 14 \times log10(f/5.5)$, with f in GHz
- 3. Reflection Coefficient given by equation SCD11(dB) < 22 (20/25.78)*f, with f in GHz
- 4. Reflection Coefficient given by equation CD11(dB) < 15 (6/25.78)*f, with f in GHz
- 5. Reflection Coefficient given by equation SCD21(dB) < 27 (29/22)*f, with f in GHz

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	RSO	N/A	1
8	LV-TTL-O	LOS	LOS of Signal	2
9	LV-TTL-I	RS1	N/A	1
10		VeeR	Reciever Ground	
11		VeeR	Reciever Ground	
12	CML-O	RD-	Reciever Data Inverted	
13	CML-O	RD+	Reciever Data Non-Inverted	

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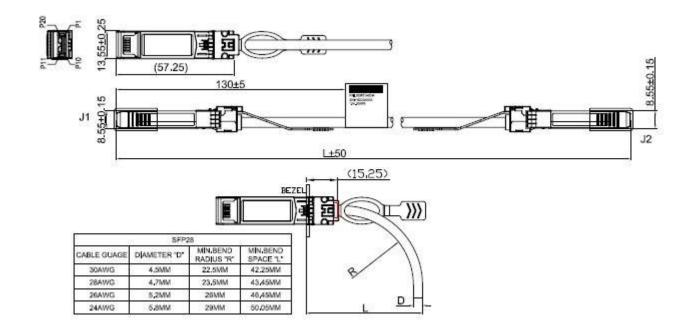
Pin	Logic	Symbol	Name/Description	Notes
14		VeeR	Reciever Ground	
15		VccR	Reciever Supply 3.3V	
16		VccT	Transmitter Supply 3.3V	
17		VeeT	Transmitter Ground	
18	CML-I	TD+	Transmitter Data Non-Inverted	
19	CML_I	TD-	Transmitter Data Inverted	
20		VeeT	Transmitter Ground	

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

Mechanical Dimensions



Ordering information

Note: You can be customized diameter and distance.

Part Number	FWC-E25xxxxC					
Length (meter)	1	2	3	4	5	
Wire gauge (AWG)	30	30	26	26	26	

Important Notice

Performance figures, data and any illustrative material provided in this data sheet are typical and must be specifically

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