

10G SFP+ Direct Attach Passive Copper Cables

RSP-DAC10G-CU*M

1、Description

10g SFP + passive cable uses shielded high-speed differential cable, which conforms to 10 Gigabit Ethernet standard and SFP multi-source protocol (MSA) standard, supports 10g transmission rate, and can also be downward compatible with 1g rate. SFP + passive cable is the preferred solution for short distance application, which is widely used in data transmission between data center and cabinet or between adjacent cabinets. Its biggest characteristics are low cost, ultra-low power consumption (less than 0.1W) and high reliability.

2、Features

- Support for multi-gigabit data rates up to 10.5Gbps
- Data rates backward compatible to 1Gbps
- 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
- Compatible to SFP+ MSA
- Compatible to IEEE 802.3ba and SFF-8431
- Power Supply :+3.3V
- Low power consumption: 0.01 W (typ.)
- Temperature Range: 0~ 70 °C
- Comply with RoHS 2.0



3、Applications

- 10g Ethernet
- 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

4、Recommended Operating Conditions

Parameter	Symbol	Min	Typical	Max	Unit
Storage Ambient Temperature		-40		+85	°C
Operating Case Temperature	Tc	-40		+85	°C

5、Systems

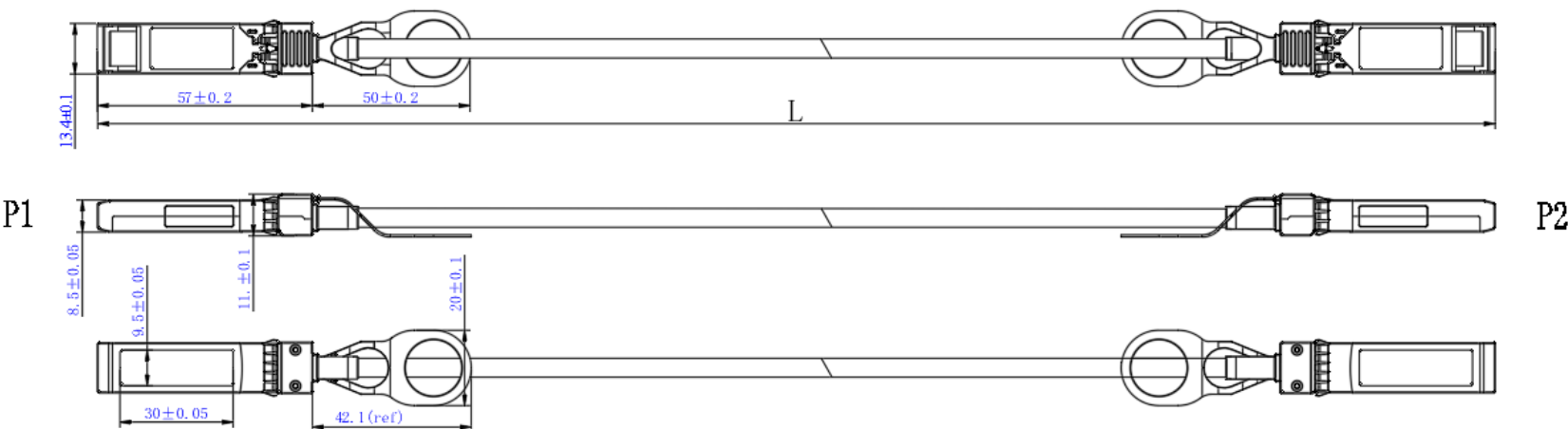
Performance	Media
10.5 Gpbs line speed, full duplex Bit error rate: better than 10E-12	Hot-pluggable, industry-standard Small Form-Factor Pluggable(SFP+) copper cable, available as 1m,3m or 5m.

6、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	RS0	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	
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	

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

7、Mechanical Dimensions



8、Ordering information

Part Number	Product Description
DAC10G-CU1M	SFP+ Direct Attach Passive Cable (10GSFP+Cu), 1m, AWG:30 , 0°C ~ +70°C
DAC10G-CU2M	SFP+ Direct Attach Passive Cable (10GSFP+Cu), 2m, AWG:30 , 0°C ~ +70°C
DAC10G-CU3M	SFP+ Direct Attach Passive Cable (10GSFP+Cu), 3m, AWG:30 , 0°C ~ +70°C
DAC10G-CU5M	SFP+ Direct Attach Passive Cable (10GSFP+Cu),5m, AWG:24, 0°C ~ +70°C
DAC10G-AU7M	SFP+ Direct Attach Passive Cable (10GSFP+Cu),7m, AWG:24 , 0°C ~ +70°C
DAC10G-AU10M	SFP+ Direct Attach Passive Cable (10GSFP+Cu),10m, AWG:24 , 0°C ~ +70°C
DAC10G-AU15M	SFP+ Direct Attach Passive Cable (10GSFP+Cu), 15m, AWG:24 , 0°C ~ +70°C

Note: You can be customized diameter and distance.

9、Important Notice

Performance figures, data and any illustrative material provided in this data sheet are typical and must be specifically confirmed in writing by company before they become applicable to any particular order or contract. In accordance with company policy of continuous improvement specifications may change without notice. The publication of information in this data sheet does not imply freedom from patent or other protective rights of company or others. Further details are available from any company sales representative.