

Passive 10G SFP+ to SFP+ DAC Cable



Model: NCN-P1DAC-SFP-1C

Main Features:

- ✦ Data rates up to 10.5Gbps and backward compatible with 1Gbps;
- ✦ Hot-pluggable design with an SFP 20-pin footprint;
- ✦ Optimized I/O connector for high-speed differential signal transmission;
- ✦ MSA compliant with switches and routers from main brands like Cisco, Huawei, TP-Link, Ubiquiti, D-Link, ZTE, Ruijie, Hikvision, Dahua.
- ✦ Extremely low power consumption of 0.01 W.

I/O Interfaces

Connector	2x SFP+ Male Connector (Hot-pluggable 20PIN footprint)
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Electrical Properties

Data Rate Per Lane	10.5 Gbps
Dielectric Withstand Voltage	≥ 300V DC
Insulation Resistance	≥ 1000 MΩ

Physical Properties

Cable Conductor	Copper
Wire Gauge	30 AWG
Cable Outer Diameter	4.2 mm
Insertion Force	≤ 30N
Withdrawal Force	≤ 20N
Retention Force	≤ 90N

Material

Contact	PCB with Gold-Plated Pads
Conductor	Silver plated copper

Insulation	Foam polyolefin
Cable Shield	2 layers Aluminum Foil
Braid	Aluminum magnesium wire
Jacket	PVC
Connector Shell	Nickel-Plated Zinc Alloy

Environment

Operating Temperature	-10°C to 50°C
Operating Humidity	RH 10% to 90% (non-condensing)
Storage Temperature	-40°C to 70°C
Storage Humidity	RH 5% to 95% (non-condensing)

General

Dimension	57 x 13.4 x 11 mm (LxWxH), Length = 100 cm
Net Weight	69 g
Gross Weight	80 g (Antistatic Bag, with dust caps)

PIN Description:

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	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 3.3V	
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.

Dimension

(unit: mm)

