

O800G-F-DAC

OSFP 800G Finned Passive Direct Attach Copper Twinax DAC Cable

1. Product overview

GLOBALfiber O800G-F-DAC is a passive direct attach copper cable assembly for short-distance host interconnection.

2. Key features

Finned-top OSFP to OSFP; 800G; minimum bend radius 54 / 69 mm. Power: 0.1 W max per end.

3. Applications

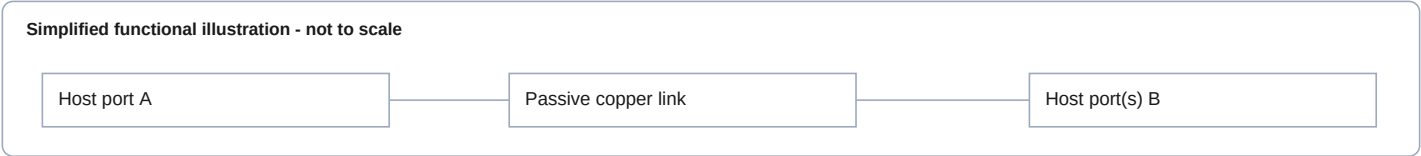
800G Ethernet.

4. Technical data

Parameter	Specification	Parameter	Specification
Current	0.5A per contact	Mating Forces	Test Condition: A rate of 10mm per minute Test Conditions; OSFP<40N
Voltage	30 vDC per contact	Un-mating Forces	Test Condition: A rate of 10mm per minute; OSFP<30N
LLCR	Test Conditions: EIA 364-23, 20mVdc, 100mA; less than 2 ohms.	Latch strength	Test Condition: Pull to separate module from cage, test with connector, cage & module (latch engaged); Minimum of an 125N force
Insulation Resistance	Test Conditions: 100 Vdc; 10 Mohms minimum between adjacent contacts	Bulk cable retention in module	Test Condition: Pull to separate bulk cable from module,Test with cable assembly only; Minimum of an 90N force
Dielectric Withstanding Voltage	Test Conditions: 300 VDC minimum for 1 minutes; No defect or breakdown between adjacent contacts	Wire Flex	Test Condition: Flex cable 180° for 10 cycles at X/Y axis, 20 times/minutes, with an 1kg suspended weight. Type C EIA 364-41, test condition I.; No microsecond discontinuities are allowed.
Temperature Rise	Test Conditions: Measure the temperature rise at the rated current after 96 hours(45 minutes ON/15 minutes OFF per hour).; Temperature rise: +30°C MAX.	Durability	Test Condition: Perform 50 unplug/plug cycles; No evidence of physical damage
Continuity	Test Conditions: Verify the continuous electrical path; No open, short, or high resistance.	Cable Minimum Bend Radius	Test Condition: The cable is bent on time over the correct mandrel with 5 perpendicular, the Minimum bendRadius is 10x OD.; No physical damage, Verify continuity and SI
SDD21&SDD12	TestCondition <=19.75 dB Min .@26.56 GHz; >= 11.0 dB Max. @26.56GHz;; Notes: From 0.01 GHz to 26.56GHz		
ERL	Minimum cable assembly ERL(*) : >= 8.25dB		
SCD12-SDD12 SCD21-SDD21	>= 10 0.05GHz<=f<12.89GHz >= 14-0.3108f 12.89GHz<=f<=40GHz; Notes: (up to 40GHz)		

5. Recommended operating conditions

Parameter	Specification
Power consumption	0.1 W max per end
Operating Voltage	Min.: 3.135; Max.: 3.465; Unit: V
Operating Temperature	Min.: 0; Max.: +70; Unit: °C
Storage Temperature	Min.: -40; Max.: +85; Unit: °C
Humidity Operating	Max.: 85; Unit: %



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6. Optical characteristics

Not applicable. This is a passive copper cable; optical wavelength, launch power and receiver sensitivity do not apply.

7. Digital diagnostics and management

CMIS revision 4.0 management.

8. Safety and regulatory

OSFP MSA; CMIS 4.0; IEEE 802.3ck. Use ESD-safe handling and observe the stated cable bend limits.

9. Ordering information

Parameter	Specification
GLOBALfiber product number	O800G-F-DAC
Product description	OSFP 800G Finned Passive Direct Attach Copper Twinax DAC Cable
Selectable lengths	0,5 m, 1 m, 1,5 m, 2 m
Available coding	Arista, Cisco, Generic, Juniper, NVIDIA-Mellanox(ETH)

Confirm equipment model, port mode and software version when ordering. Coding availability does not guarantee support for every platform or mode.

Cable variants documented in the technical source:

Parameter	Specification
Cable variant	2; OSFP-800G-PC005: OSFP-800G-PC01; DAC: DAC; 0.5meter: 1meter; 30AWG: 30AWG; +0.05/-0meter
Cable variant	3; OSFP-800G-PC005: OSFP-800G-PC015; DAC: DAC; 0.5meter: 1.5meter; 30AWG: 26AWG; +0.05/-0meter
Cable variant	4; OSFP-800G-PC005: OSFP-800G-PC02; DAC: DAC; 0.5meter: 2 meter; 30AWG: 26AWG; +0.05/-0meter