

O400G-F-DAC

OSFP 400G Finned Passive Direct Attach Copper Twinax DAC Cable

1. Product overview

GLOBALfiber O400G-F-DAC is a passive direct attach copper cable assembly for short-distance host interconnection.

2. Key features

Finned-top OSFP; 8 x 50G PAM4; 400GAUI-8. Power: 0.1 W max per end.

3. Applications

Switches, servers, routers, storage arrays, data centers, telecom and test equipment.

4. Technical data

Parameter	Specification	Parameter	Specification
Current	0.5A per contact	Mating Forces	Test Condition: A rate of 10mm per minute; OSFP<40N
Voltage	30 VDC per contact	Un-mating Forces	Test Condition: A rate of 10mm per minute; OSFP<30N
LLCR	Test Condition: 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 Resistanc	Test Condition: 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 Condition: 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 Condition: 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 Condition: 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&SDD1	-17.16 dB Min. @13.28 GHz; Notes: From 0.01 GHz-19GHz		
SDD11&SDD22	-16.5+2*sqrt(f)dB Max. @0.05GHz~4.1GHz -10.66+14*log(f/5.5)dB Max.@4.1GHz~10GHz; Notes: From 0.01 GHz-19GHz		
SCD21-SDD21	-10 dB Max. @0.01 GHz~12.89 GHz -27+(29/22)*f dB Max. @12.89 GHz~15.7 GHz -6.3 dB Max. @15.7 GHz~19 GHz; Notes: From 0.01 GHz-19GHz		

5. Recommended operating conditions

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

Simplified functional illustration - not to scale



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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 802.3cd; EIA 364-1000. Use ESD-safe handling and observe the stated cable bend limits.

9. Ordering information

Parameter	Specification
GLOBALfiber product number	O400G-F-DAC
Product description	OSFP 400G Finned Passive Direct Attach Copper Twinax DAC Cable
Selectable lengths	1 m, 2 m, 2,5 m, 3 m
Available coding	Arista, Generic, 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
1m	Min. Bend Radius: 34.5mm; Cable Type: Passive DAC; Cable Jacket: PVC
2m, 2.5m, 3m	Min. Bend Radius: 40.5mm; Cable Type: Passive DAC; Cable Jacket: PVC