OSFP 400G to 4x100G QSFP56 DAC

OSFP to 4x QSFP56 · 400G to 4 × 100G · passive direct attach copper cable (DAC) · 1m, 1.5m, 2m · NVIDIA compatible

The GLOBALfiber O400G-DAC4Q-F-NV is a 400G to 4 × 100G passive direct attach copper cable (DAC) with OSFP to 4x QSFP56 connectors for NVIDIA InfiniBand and Ethernet networks. It is available in lengths of 1m, 1.5m, 2m and is coded for NVIDIA equipment with InfiniBand or Ethernet coding.



KEY FEATURES

- OSFP to 4x QSFP56
- 400G to 4 × 100G, 8 × 50G PAM4
- Twinax copper, 30 AWG (1–1.5 m) / 26 AWG (2 m)
- Connector top: Finned (IHS)
- Power consumption 0.1 W
- Lengths 1m, 1.5m, 2m
- Hot-pluggable, 0 to +70 °C

APPLICATIONS & COMPATIBILITY

- NVIDIA switches: Quantum-2 QM9700/QM9790 (OSFP end)
- NVIDIA adapters / systems: ConnectX-6 HDR / ConnectX-6 Dx 200GbE / ConnectX-7 (QSFP56 end)
- Replaces NVIDIA MCP7Y70-H001, MCP7Y70-H002, MCP7Y70-H01A

KEY SPECIFICATIONS

Cable type	passive direct attach copper cable (DAC)
Connectors	OSFP to 4x QSFP56
Data rate	400G to 4 × 100G
Lanes	8 × 50G PAM4
Conductor / fiber	Twinax copper, 30 AWG (1–1.5 m) / 26 AWG (2 m)
Connector top	Finned (IHS)
Power consumption	0.1 W
Min. bend radius	72 mm (30 AWG) / 89 mm (26 AWG)
Jacket	LSZH
Operating temperature	0 to +70 °C
Management	CMIS 4.0 / SFF-8636 EEPROM
Protocol	InfiniBand or Ethernet (HDR / 200GbE)

ORDERING INFORMATION

GLOBALfiber item	Length	Coding	Replaces NVIDIA
O400G-DAC4Q1M-F-NVI	1m	IB InfiniBand	MCP7Y70-H001
O400G-DAC4Q1M-F-NVE	1m	ETH Ethernet	MCP7Y70-H001
O400G-DAC4Q1M5-F-NVI	1.5m	IB InfiniBand	MCP7Y70-H01A
O400G-DAC4Q1M5-F-NVE	1.5m	ETH Ethernet	MCP7Y70-H01A
O400G-DAC4Q2M-F-NVI	2m	IB InfiniBand	MCP7Y70-H002
O400G-DAC4Q2M-F-NVE	2m	ETH Ethernet	MCP7Y70-H002

Choose the coding that matches the host: InfiniBand for NVIDIA Quantum switches, Ethernet for NVIDIA Spectrum switches. Other lengths and coding on request: salg@globalfiber.no.

ENVIRONMENTAL

Operating temperature	0 to +70 °C
Storage temperature	-40 to +85 °C
Relative humidity	5 to 95 % (non-condensing)

COMPLIANCE

- OSFP MSA
- QSFP56 MSA
- SFF-8679
- IEEE 802.3cd
- RoHS compliant

INSTALLATION NOTES

- Check the connector top type (Finned (IHS)) against the host cages: finned top (IHS) for switch ports, flat top (RHS) for adapter and DGX ports.
- Confirm that both host ports support the selected protocol, port mode and coding.
- Observe the minimum bend radius of 72 mm (30 AWG) / 89 mm (26 AWG) and leave room for cable routing and airflow.
- Choose a length with sufficient routing margin; do not pull on the cable when removing — use the pull tab.

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