400G Passive Twinax Direct-Attach Cable (QSFP-DD/QSFP-DD), Black/Silver, 1 m

MODEL NUMBER: **N282D-01M-BK**

Combines 8 SFP channels operating at up to 50 Gbps into one affordable 400GbE cable that complies with QSFP-DD MSA specifications.

Features

QSFP-DD Cable Connects High-Density Network Equipment at Speeds Up to 400 Gbps Tripp Lite's N282D-01M-BK provides next-generation performance by combining eight 50 Gb SFP channels into one high-density cable. It's a direct-attach solution ideal for connecting newer switches and other active network devices over short distances in data centers, high-end servers, telco rooms and enterprise wiring closets.

Best-in-Class Construction Optimized for Applications That Use Much Bandwidth This passive copper cable integrates a 400G Ethernet-optimized (400 GbE) 38-position "board as connector" design. Zinc die-cast QSFP-DD connectors on both ends offer superior EMI resistance, minimal insertion loss and low crosstalk for top performance. Ergonomic push/pull tabs make the cable easy to install or remove with one hand. Eight-pair wire technology is optimized for bandwidth-intense applications, such as 128G Fibre Channel and EDR 4x InfiniBand. Flexible 30 AWG conductors maintain a smooth high-frequency response.

Fully Compliant and Compatible with a Wide Range of Applications The N282D-01M-BK undergoes a rigorous assembly and testing procedure aimed at eliminating unnecessary signal loss. It's fully compliant with the MSA (Multi-Source Agreement) SFF-8665 architecture for guaranteed compatibility with all QSFP-DD ports, as well as RoHS, REACH and IEEE 802.3cd. It is also backward compatible with 40 Gb and 100 Gb networks, so you can future-proof your current application for an eventual upgrade to 400 Gb.

Highlights

- Supports data speeds up to 400 Gb for newer switches and network devices
- Recommended for high-density switches that support QSFP-DD transceivers
- Push/pull tabs on QSFP-DD plugs for easy one-handed connection/disconnection
- Backward compatible with 40/100 GbE networks to facilitate future-proofing
- Ideal for short connections in data centers, telco rooms and enterprise wiring closets

Applications

- High-speed parallel interconnects for high-performance computing (HPC) and data center interconnects (DCI)
- Active network equipment connections in high-end server rooms or enterprise wiring closets

System Requirements

Networking switch or other hardware with open QSFP-DD ports

Package Includes

N282D-01M-BK 400G Passive Twinax Direct-Attach Cable, Black/Silver, 1 m

Specifications

OVERVIEW

UPC Code	037332258205
Product Type	Passive
Technology	QSFPDD

PHYSICAL	
Color	Black; Silver
Cable Jacket Material	PVC
Cable Outer Diameter (OD)	6.6mm
Wire Gauge (AWG)	30
Cable Length (ft.)	3.3
Cable Length (m)	1
Cable Length (in.)	39.4
Cable Length (cm)	100.584
Minimum Bend Radius	40mm

ENVIRONMENTAL	
Operating Temperature Range	0 to +70
Storage Temperature Range	-20 to +85
Operating Humidity Range	5% to 85% RH
Storage Humidity Range	5% to 85% RH

COMMUNICATIONS	
Network Speed	400Gbps
IEEE Standards Supported	802.3bj; 802.3cd

CONNECTIONS	
Side A - Connector 1	QSFP-DD
Side B - Connector 1	QSFP-DD

STANDARDS & COMPLIANCE	
Certifications	QSFP-DD MSA, RoHS, REACH

WARRANTY	
Product Warranty Period (Worldwide)	Lifetime limited warranty

https://www.tripplite.com/products/product-certification-agencies