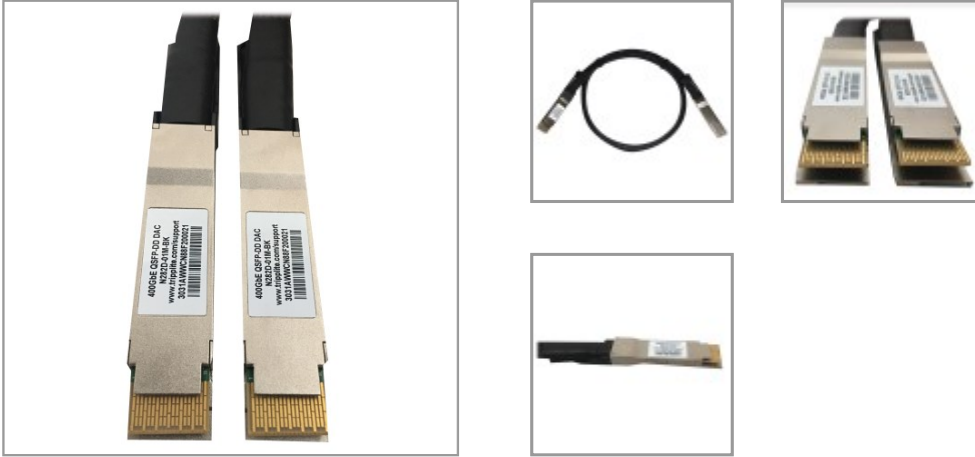# 400G Passive Twinax Direct-Attach Cable (QSFP-DD/QSFP-DD), Black/Silver, 1 m

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 GbpsN282D-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
Cable Type	Passive
PHYSICAL	

Color	Black
Cable Jacket Color	Black
Cable Jacket Material	PVC
Cable Outer Diameter (OD)	6.6mm
Wire Gauge (AWG)	30
Cable Length (ft.)	3.3
Cable Length (m)	1.01
Cable Length (in.)	39.4
Cable Length (cm)	100.584
Minimum Bend Radius	40mm
Shipping Dimensions (hwd / in.)	12.00 x 10.50 x 0.50
Shipping Dimensions (hwd / cm)	30.48 x 26.67 x 1.27
Shipping Weight (lbs.)	0.51
Shipping Weight (kg)	0.23
Unit Dimensions (hwd / in.)	12.000 x 10.500 x 0.500

ENVIRONMENTAL

Operating Temperature Range	32° to 158°F (0° to 70°C)
Storage Temperature Range	-4° to 185°F (-20° to 85°C)
Operating Humidity Range	5% to 85% RH
Storage Humidity Range	5% to 85% RH

COMMUNICATIONS

Network Compatibility	400 Gbps
IEEE Standards Supported	802.3bj; 802.3cd

CONNECTIONS

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

FEATURES & SPECIFICATIONS

Breakout	No

STANDARDS & COMPLIANCE

Product Compliance	RoHS; REACH

WARRANTY & SUPPORT

Product Warranty Period (Worldwide)	Lifetime limited warranty