TRIPP-LITE

400G Multimode 50/125 OM4 Plenum Fiber Optic Breakout Cable, 24F MTP/MPO-PC to (x4) LC Duplex (F/M), Aqua, 1 m

MODEL NUMBER: N846D-01M-24CAQ







400 GbE Ethernet cable supports high bandwidths necessary for next-generation cloud services, hyperscale data centers and telecom carriers.

Features

400 GbE Cable Supports Higher Bandwidths Needed for Next-Gen Data and Voice Networking

As the amount of traffic in data networks grows, so does the need for next-generation devices and fiber cables to support much higher bandwidths in cloud services, hyperscale data centers, telecom applications and equipment OEM companies. This multimode 50/125 OM4 breakout cable is an ideal choice for 400G Ethernet applications up to 100 meters (at 850 nm). It has documented insertion loss and back reflection testing on every connector and attenuation loss that meets or exceeds current standards.

24-Fiber MTP/MPO Connector Designed for the Latest QSFP-DD Transceivers

The MPO connector has a wide parallel optical interface for use with the latest 400G QSFP-DD transceivers, making this cable an excellent solution for your high-density network application. The MPO connector is the same size as a standard SC connector, but much denser, allowing vertical stacking in switches or patch panels where space is at a premium. Pull tabs make the cable easy to install or remove with one hand. The LC duplex connectors are recommended for high-density feed-through cassettes with no splicing required.

Aqua Jacket Helps Avoid Misidentification That Can Cause Costly Downtime

The OM4-rated cable has an aqua jacket, which is easy to identify quickly in a crowded patch panel or switch and helps prevent the cable from becoming accidentally disconnected. The three-millimeter ruggedized plenum-rated jacket has low smoke and flame characteristics, making it suitable for premise applications in ceilings, walls and ducts.

Specifications

OVERVIEW	
UPC Code	037332258472
Technology	Multimode

Highlights

- OM4-rated cable recommended for 400 Gb speeds up to 100 m (@ 850 nm)
- MTP/MPO 24-fiber end designed for next-gen 400G QSFP-DD transceivers
- Connectors tested for low insertion loss and back reflection to ensure top performance
- Plenum rated for horizontal premise applications in air ducts and drop ceilings
- Aqua jacket allows fast, easy identification in a crowded switch or patch panel

Applications

- Connect 400G fiber Ethernet networks in your cloud service, hyperscale data center or telecom application
- Connect 400G Cisco, Arista, Juniper and other network switches through air ducts and drop ceilings

Package Includes

N846D-01M-24CAQ 400G Multimode 50/125 OM4 Fiber Optic Cable, Aqua, 1 m

TRIPP-LITE

Cable Jacket MaterialPVCCable Jacket RatingOFNPClad Diameter (microns)125Core Diameter (microns)50Primary Coating Diameter (microns)245Number of Fibers16Cable Length (ft.)3.3Cable Length (m)1.01Cable Length (in.)39.37Vinimum Bend Radius20MM (ft)Corage Temperature Range-4 to 140Corage Temperature Range-4 to 140Corage Temperature Range5% to 83Storage Humidity Range35% to 63Communication Q 850NM3.0dB/KAttenuation Q 850NM3.0dB/KInsertion LossMTP/MF	lack; Aqua		
Cable Jacket ColorAquaConnector ColorAqua; BCable Jacket MaterialPVCCable Jacket RatingOFNPClad Diameter (microns)125Core Diameter (microns)50Primary Coating Diameter (microns)245Number of Fibers16Cable Length (ft.)3.3Cable Length (m)1.01Cable Length (in.)39.37Minimum Bend Radius20MM (interpretation of the second of the se	Dynamic); 10MM (Static) D °F (-20 to 60 °C) D °F (-20 to 60 °C)		
Connector ColorAqua; BCable Jacket MaterialPVCCable Jacket RatingOFNPClad Diameter (microns)125Core Diameter (microns)50Primary Coating Diameter (microns)245Number of Fibers16Cable Length (ft.)3.3Cable Length (in.)39.37Minimum Bend Radius20MM (ft)Corage Temperature Range-4 to 140Storage Temperature Range-4 to 140Operating Humidity Range5% to 85Storage Humidity Range35% to 65Network Compatibility400 GbpAttenuation @ 850NM3.0dB/KInsertion LossMTP/MF	Dynamic); 10MM (Static) D °F (-20 to 60 °C) D °F (-20 to 60 °C)		
Cable Jacket MaterialPVCCable Jacket RatingOFNPClad Diameter (microns)125Core Diameter (microns)50Primary Coating Diameter (microns)245Number of Fibers16Cable Length (ft.)3.3Cable Length (m)1.01Cable Length (in.)39.37Minimum Bend Radius20MM (ft)Corage Temperature Range-4 to 140Corage Temperature Range-4 to 140Corage Humidity Range5% to 83Storage Humidity Range35% to 06Communication (a) 850NM3.0dB/KAttenuation (a) 850NM3.0dB/KInsertion LossMTP/MF	Dynamic); 10MM (Static) D °F (-20 to 60 °C) D °F (-20 to 60 °C)		
Cable Jacket RatingOFNPClad Diameter (microns)125Core Diameter (microns)50Primary Coating Diameter (microns)245Number of Fibers16Cable Length (ft.)3.3Cable Length (m)1.01Cable Length (in.)39.37Minimum Bend Radius20MM (ft.)Environmental20MM (ft.)Operating Temperature Range-4 to 140Storage Temperature Range-4 to 140Operating Humidity Range5% to 85Storage Humidity Range35% to 65Communication (ft.)30.04B/KInasmission Distance100M @Attenuation @ 850NM3.0dB/KInsertion LossMTP/MF	0 °F (-20 to 60 °C) 0 °F (-20 to 60 °C)		
Clad Diameter (microns) 125 Core Diameter (microns) 50 Primary Coating Diameter (microns) 245 Number of Fibers 16 Cable Length (ft.) 3.3 Cable Length (m) 1.01 Cable Length (in.) 39.37 Minimum Bend Radius 20MM (ft.) Environmental 20MM (ft.) Operating Temperature Range -4 to 144 Storage Temperature Range -4 to 144 Operating Humidity Range 5% to 85 Storage Humidity Range 35% to 65 COMMUNICATIONS 100M @ Vetwork Compatibility 400 Gbp Fransmission Distance 100M @ Attenuation @ 850NM 3.0dB/K nsertion Loss MTP/MF	0 °F (-20 to 60 °C) 0 °F (-20 to 60 °C)		
Core Diameter (microns)50Primary Coating Diameter (microns)245Number of Fibers16Cable Length (ft.)3.3Cable Length (m)1.01Cable Length (in.)39.37Minimum Bend Radius20MM (ft)ENVIRONMENTAL20MM (ft)Operating Temperature Range-4 to 140Storage Temperature Range-4 to 140Operating Humidity Range5% to 83Storage Humidity Range35% to 63COMMUNICATIONS100M @Network Compatibility400 GbpTransmission Distance100M @Attenuation @ 850NM3.0dB/KInsertion LossMTP/MF	0 °F (-20 to 60 °C) 0 °F (-20 to 60 °C)		
Primary Coating Diameter (microns) 245 Number of Fibers 16 Cable Length (ft.) 3.3 Cable Length (m) 1.01 Cable Length (in.) 39.37 Minimum Bend Radius 20MM (ft.) ENVIRONMENTAL 20MM (ft.) Operating Temperature Range -4 to 144 Operating Temperature Range -4 to 144 Operating Humidity Range 5% to 84 Storage Humidity Range 35% to 64 COMMUNICATIONS 400 Gbp Vetwork Compatibility 400 Gbp Transmission Distance 100M @ Attenuation @ 850NM 3.0dB/K nsertion Loss MTP/MF	0 °F (-20 to 60 °C) 0 °F (-20 to 60 °C)		
Number of Fibers 16 Cable Length (ft.) 3.3 Cable Length (m) 1.01 Cable Length (in.) 39.37 Minimum Bend Radius 20MM (ft.) ENVIRONMENTAL 20MM (ft.) Operating Temperature Range -4 to 140 Operating Temperature Range -4 to 140 Operating Humidity Range 5% to 80 Storage Humidity Range 35% to 60 COMMUNICATIONS 400 Gbp Vetwork Compatibility 400 Gbp Transmission Distance 100M @ Attenuation @ 850NM 3.0dB/K nsertion Loss MTP/MF	0 °F (-20 to 60 °C) 0 °F (-20 to 60 °C)		
Cable Length (ft.) 3.3 Cable Length (m) 1.01 Cable Length (in.) 39.37 Minimum Bend Radius 20MM (ft.) ENVIRONMENTAL 20MM (ft.) Operating Temperature Range -4 to 144 Storage Temperature Range -4 to 144 Operating Humidity Range 5% to 84 Storage Humidity Range 35% to 64 COMMUNICATIONS 400 Gbp Vetwork Compatibility 400 Gbp Attenuation @ 850NM 3.0dB/K Insertion Loss MTP/MF	0 °F (-20 to 60 °C) 0 °F (-20 to 60 °C)		
Cable Length (m) 1.01 Cable Length (in.) 39.37 Minimum Bend Radius 20MM (fill) ENVIRONMENTAL 20MM (fill) Operating Temperature Range -4 to 140 Storage Temperature Range -4 to 140 Operating Humidity Range 5% to 83 Storage Humidity Range 35% to 00 COMMUNICATIONS 400 Gbp Network Compatibility 400 Gbp Attenuation @ 850NM 3.0dB/K Insertion Loss MTP/MF	0 °F (-20 to 60 °C) 0 °F (-20 to 60 °C)		
Cable Length (in.) 39.37 Minimum Bend Radius 20MM (interpretation of the second of the se	0 °F (-20 to 60 °C) 0 °F (-20 to 60 °C)		
Minimum Bend Radius 20MM (I ENVIRONMENTAL -4 to 140 Operating Temperature Range -4 to 140 Storage Temperature Range -4 to 140 Operating Humidity Range 5% to 80 Storage Humidity Range 35% to 60 COMMUNICATIONS 400 Gbp Vetwork Compatibility 400 Gbp Transmission Distance 100M @ Attenuation @ 850NM 3.0dB/K Insertion Loss MTP/ME	0 °F (-20 to 60 °C) 0 °F (-20 to 60 °C)		
ENVIRONMENTAL Operating Temperature Range -4 to 140 Storage Temperature Range -4 to 140 Operating Humidity Range 5% to 80 Storage Humidity Range 35% to 00 COMMUNICATIONS 400 Gbp Vetwork Compatibility 400 Gbp Transmission Distance 100M @ Attenuation @ 850NM 3.0dB/K Insertion Loss MTP/MF	0 °F (-20 to 60 °C) 0 °F (-20 to 60 °C)		
Operating Temperature Range -4 to 144 Storage Temperature Range -4 to 144 Operating Humidity Range 5% to 85 Storage Humidity Range 35% to 65 COMMUNICATIONS 400 Gbp Vetwork Compatibility 400 Gbp Transmission Distance 100M @ Attenuation @ 850NM 3.0dB/K Insertion Loss MTP/MF	0 °F (-20 to 60 °C)		
Storage Temperature Range -4 to 144 Operating Humidity Range 5% to 85 Storage Humidity Range 35% to 65 COMMUNICATIONS 400 Gbp Vetwork Compatibility 400 Gbp Fransmission Distance 100M @ Attenuation @ 850NM 3.0dB/K Insertion Loss MTP/MF	0 °F (-20 to 60 °C)		
Deperating Humidity Range 5% to 8 Storage Humidity Range 35% to 8 COMMUNICATIONS 35% to 8 Network Compatibility 400 Gbp Transmission Distance 100M @ Attenuation @ 850NM 3.0dB/K Insertion Loss MTP/MF			
Storage Humidity Range 35% to 0 COMMUNICATIONS Network Compatibility 400 Gbp Transmission Distance 100M @ Attenuation @ 850NM 3.0dB/K Insertion Loss MTP/MF	5% RH, Non-Condensing		
COMMUNICATIONS Network Compatibility 400 Gbp Fransmission Distance 100M @ Attenuation @ 850NM 3.0dB/K Insertion Loss MTP/MF			
Network Compatibility400 GbpFransmission Distance100M @Attenuation @ 850NM3.0dB/KInsertion LossMTP/MF	65% RH, Non-Condensing		
Transmission Distance 100M @ Attenuation @ 850NM 3.0dB/K Insertion Loss MTP/MF	COMMUNICATIONS		
Attenuation @ 850NM 3.0dB/K nsertion Loss MTP/MF	05		
nsertion Loss MTP/MF	2 850NM Wavelength		
	m		
CONNECTIONS	PO: 0.35dB; LC:0.20dB		
	CONNECTIONS		
Side A - Connector 1 24-STR	AND MTP/MPO (FEMALE)		
	DUPLEX (MALE)		
Endface Polish PC			
FEATURES & SPECIFICATIONS			
Push/Pull Tabs No			
Breakout Yes			
Frunk Yes			



1000 Eaton Boulevard Cleveland, OH 44122 United States

STANDARDS & COMPLIANCE		
Product Compliance	RoHS; REACH	
WARRANTY & SUPPORT		
Product Warranty Period (Worldwide)	Lifetime limited warranty	



© 2023 Eaton. All Rights Reserved. Eaton is a registered trademark. All other trademarks are the property of their respective owners.