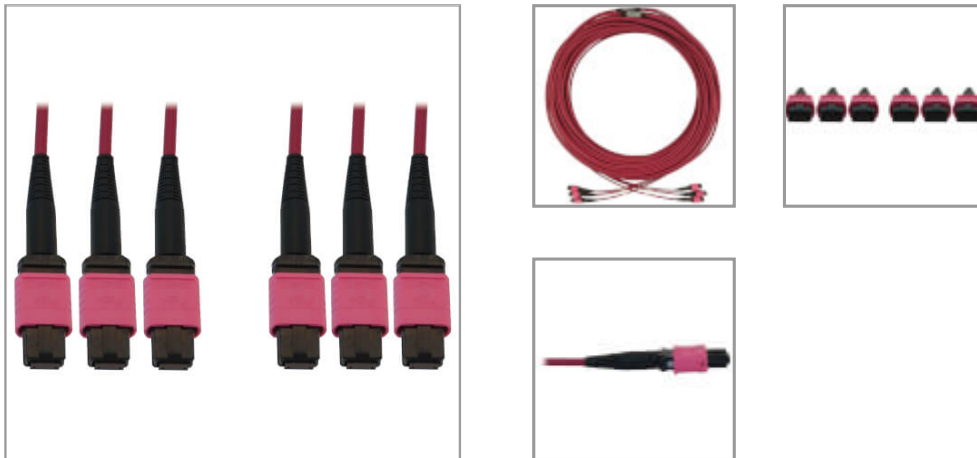# 40/100/400G Multimode 50/125 OM4 Fiber Optic Cable (3x8F MTP/MPO-PC F/F), LSZH, Magenta, 45 m (147.6 ft.)

MODEL NUMBER: **N858B-45M-3X8MG**

Highlights

- OM4-rated cable recommended for 400 Gb speeds up to 100 meters (@ 850 nm)
- Backward compatible with 10/25/40/100 Gb networks to facilitate future-proofing
- Magenta LSZH jacket allows fast, easy identification in a crowded switch or patch panel

Package Includes

N858B-45M-3X8MG 40/100/400G Multimode 50/125 OM4 Fiber Optic Cable, Magenta, 45 m (147.6 ft.)

40/100/400 GbE Ethernet cable extends high-density connections between network components in enterprise applications in wiring closets, telecom rooms and data centers.

Features

40/100/400 GbE Cable Supports Higher Bandwidths Needed for High-Density Data Networking
The N858B-45M-3X8MG is a premium multimode fiber optic cable that supports 400 Gb Ethernet speeds for transmitting data and voice signals over short distances. It is designed to support higher bandwidths in cloud services, hyperscale data centers, telecom applications and equipment OEM companies. This multimode 50/125 OM4 cable is an ideal choice for 400 Gb Ethernet applications up to 100 meters (328 feet) at 850 nm. It is also backward compatible with 10 Gb, 25 Gb and 40 Gb networks, so you can future-proof your current application for an eventual upgrade to 100 Gb or 400 Gb.

Magenta-Colored Jacket Helps Avoid Misidentification That Can Cause Costly Downtime
The OM4-rated cable has a magenta jacket to identify it as multimode in a crowded patch panel or switch and prevent it from becoming accidentally disconnected. The round low-smoke zero-halogen (LSZH) jacket limits the amount of toxic smoke emitted in case of combustion, making it suitable for poorly ventilated areas. The connectors' slim boots and magenta housings allow easy one-handed installation and removal of the cable.

Specifications

OVERVIEW	
UPC Code	037332273000
Technology	Multimode
Optical Mode	OM4
Mode Type	Multimode
PHYSICAL	

Cable Jacket Color	Magenta
Connector Color	Black; Magenta
Cable Jacket Material	LSZH
Cable Jacket Rating	OFNR
Cable Outer Diameter (OD)	4.5 mm
Clad Diameter (microns)	125.0
Core Diameter (microns)	50.0
Primary Coating Diameter (microns)	245.0
Number of Fibers	24
Cable Length (ft.)	147.64
Cable Length (m)	45.01
Cable Length (in.)	1771.7
Minimum Bend Radius	20 mm (Dynamic); 10 mm (Static)
Fiber Cable Length	45M (147.6 ft)

ENVIRONMENTAL

Operating Temperature Range	14° to 140°F (-10° to 60°C)
Storage Temperature Range	14° to 140°F (-10° to 60°C)
Operating Humidity Range	5% to 85% RH, Non-Condensing
Storage Humidity Range	5% to 85% RH, Non-Condensing

COMMUNICATIONS

Network Compatibility	40 Gbps; 100 Gbps; 400 Gbps
Wavelength	1300nm; 850nm
Attenuation @ 850NM	3.5 dB/km
Attenuation @ 1300NM	1.5 dB/km
Insertion Loss	0.35 dB

CONNECTIONS

Side A - Connector 1	12-STRAND MTP/MPO (FEMALE)
Side B - Connector 1	24-STRAND MTP/MPO (FEMALE)
Endface Polish	PC
Polarity	Type B (cross)

FEATURES & SPECIFICATIONS

Push/Pull Tabs	No
Breakout	Yes

Trunk	Yes
Optical Port	MPO/MTP

STANDARDS & COMPLIANCE	
Product Certifications	UL 1666
Product Compliance	RoHS; CE (Europe); REACH

WARRANTY & SUPPORT	
Product Warranty Period (Worldwide)	Lifetime limited warranty