

# Preloaded Fiber Patch Panel, 3U - 64x (12F MTP/MPO-PC to 4x LC Duplex F/F) 8F Trunk Cables, OM4 Multimode, 3 m (9.8 ft.)

MODEL NUMBER: N48M-64M8L4-03











3U patch panel comes preloaded with spools of multimode fiber cable that allow you to extend the exact length required and store the excess out of sight.

#### Description

Preloaded Fiber Patch Panel, 3U - 64x (12F MTP/MPO-PC to 4x LC Duplex F/F) 8F Trunk Cables, OM4 Multimode, 3 m (9.8 ft.)

#### **Features**

#### 3U Panel Solution Comes with Cabling Preloaded to Cut Costs and Save Time

All necessary cabling is included with this preloaded fiber panel, coiled inside and ready for immediate use. The aluminum 3U chassis features 64 MTP/MPO-PC to LC Duplex 8-fiber multimode trunk cables, all three meters (9.8 feet) in length to make management easy. The panel opens to provide easy access to stored cables. Use only as much cabling as you need. The remainder stores inside the chassis to eliminate cable clutter, allow better airflow through the rack and make equipment maintenance and replacement easier. The cables and panels have labels to help with organization. You also avoid the expense and effort of custom cabling. The flexibility in cable length lets you reuse the cables if equipment is moved.

# Integrates Equipment to Meet Current Connectivity Needs

This preloaded slack-free panel helps integrate your 10 Gb equipment with 40 Gb networks or 25 Gb equipment with 100 Gb networks in a simple, elegant and flexible manner. The N48M-64M8L4-03 mounts in just 3U of space in an EIA-standard 19-inch rack.

# **Specifications**

OVERVIEW	
UPC Code	037332262233
Product Type	Preloaded
Technology	Multimode

## **Highlights**

- 64 MTP/MPO-to-LC 8-fiber OM4 multimode cables come coiled inside for instant use
- Use only as much cable as you need; store the remainder inside to avoid clutter
- Flexible cable length allows reuse of cables if equipment is moved
- 256 LC Duplex ports protected by fold-down front panel with organization labels
- Aluminum chassis mounts into 3U of space in EIA-standard 19 in, racks

## **Applications**

- Integrate 10G equipment with a 40G network or 25G equipment with a 100G network
- Save the expense and effort of buying custom cables or repurchasing cables after moving rack equipment
- Eliminate cable clutter by using only as much as you need and storing excess cable inside the panel

## **Package Includes**

- N48M-64M8L4-03 Preloaded Fiber Patch Panel
- (64) MTP/MPO-PC to LC Duplex trunk cables, 3 m (9.8 ft.)
- Installation guide



Panel Dimensions 17.42" X 5.24" X 12.99" Panel Cable Number 64 Panel Cable Length (m) 3 Fiber Panel Ports (256) LC Duplex; (64) MTP/MPO Mode Type Multimode  Firmware / Software Docs  Offset Ports No  PMYSICAL  Primary Form Factor Rackmount Rack Height 3U Cable Jacket Cotor Aqua Cable Jacket Rating OFNP  Cable Outer Diameter (microns) 125 Core Diameter (microns) 50 Primary Formsoft Briters  Number of Fibers 8 Cable Length (ft) 9.8 Cable Length (ft) 2.99 Cable Length (ft) 118.96 Shipping Dimensions (hwd / in.) 8.80 x 22.80 x 18.90 Shipping Weight (kg) 8.60 Fiber Cable Length 3M (8.8 ft)  ENVIRONMENTAL  Cereptating Temperature Range 4" to 140"F (-20" to 60"C) Storage Temperature Range 4" to 140"F (-20" to 60"C) Storage Temperature Range 5% to 85% RH, Non-Condensing Storage Humidity Range 5% to 85% RH, Non-Condensing		
Panel Cable Length (m) 3 Fiber Panel Ports (256) LC Duplex; (64) MTP/MPO Mode Type Multimode  Firmware / Software Docs  Ottsor Ports No  PHYSICAL  Primary Form Factor Reckmount Rack Height 3U Cable Jacket Color Aqua Cable Jacket Rating OFNP Cable Outer Diameter (microns) 125  Core Diameter (microns) 245  Number of Fibers 8 Cable Length (ft) 9,8 Cable Length (ft) 9,8 Cable Length (ft) 118.1  Minimum Bend Radius 20 mm (Dynamic); 10 mm (Static) Shipping Diamesian (mv/ fin) 8,90 x 22.80 x 18.90 Shipping Weight (fto) 8,60 Fiber Cable Length (ft) 8,60 Fiber Cable Length (ft) 8,60 Shipping Weight (fto) 8,60 Fiber Cable Length (fto) 8,60 Fiber Cable Length (ft) 9,8 Shipping Weight (fto) 8,60 Fiber Cable Length (fto) 8,60 Fiber Cable Length (fto) 8,60 Fiber Cable Length (fto) 9,60 Shipping Temperature Range 4* to 140°F (-20° to 60°C) Coperating Temperature Range 5% to 85% RH, Non-Condensing  COMMUNICATIONS	Optical Mode	OM4
Panel Cable Length (m) 3 Fiber Panel Ports (256) LC Duplex; (64) MTP/MPO Mode Type Multimode  Firmware / Software Docs  Offset Ports No  Physical  Primary Form Factor Rackmount Rack Height 3U Cable Jacket Color Aqua Cable Jacket Rating OFNP Cable Length (microns) 125 Cable Length (microns) 50 Primary Costing Diameter (microns) 245 Number of Fibers 8 Cable Length (ft) 9.8 Cable Length (microns) 118.1 Minimum Bend Radius 20 mm (Dynamic); 10 mm (Static) Shipping Dimensions (ftwd / in.) 8.90 x 22.80 x 18.90 Shipping Dimensions (ftwd / in.) 8.90 x 22.80 x 18.90 Shipping Weight (fts.) 18.96 Shipping Weight (fts.) 18.96 Shipping Weight (fts.) 18.96 Shipping Weight (fts.) 3M (8.8 ft)  ENVIRONMENTAL Operating Temperature Range 4* to 140°F (-20° to 60°C) Storage Temperature Range 5% to 85% RH, Non-Condensing Storage Humidity Range 5% to 85% RH, Non-Condensing	Panel Dimensions	17.42" X 5.24" X 12.99"
Fiber Panel Ports   (256) LC Duplex; (64) MTP/MPO   Mode Type   Multimode   Mode Type   Multimode	Panel Cable Number	64
Mode Type	Panel Cable Length (m)	3
Firmware / Software Docs           Offset Ports         No           PHYSICAL           Primary Form Factor         Rackmount           Rack Height         3U           Cable Jacket Color         Aqua           Cable Jacket Rating         OFNP           Cable Outer Diameter (microns)         125           Core Diameter (microns)         50           Primary Coating Diameter (microns)         245           Number of Fibers         8           Cable Length (ft)         9.8           Cable Length (m)         2.99           Cable Length (m)         118.1           Minimum Bend Radius         20 mm (Dynamic); 10 mm (Static)           Shipping Dimensions (hwd /in.)         8.90 x 22.80 x 18.90           Shipping Weight (bs.)         18.96           Shipping Weight (kg)         8.60           Fiber Cable Length         3M (9.8 ft)           ENVIRONMENTAL         Operating Temperature Range         4° to 140°F (20° to 60°C)           Storage Temperature Range         4° to 140°F (20° to 60°C)           Storage Temperature Range         5% to 85% RH, Non-Condensing           Storage Temperature Range         5% to 85% RH, Non-Condensing           Storage Temperature Range         5% t	Fiber Panel Ports	(256) LC Duplex; (64) MTP/MPO
Offset Ports         No           PHYSICAL           Primary Form Factor         Rackmount           Rack Height         3U           Cable Jacket Color         Aqua           Cable Jacket Rating         OFNP           Cable Length (microns)         245           Cable Length (microns)         298           Cable Length (microns)         2.99           Cable Length (microns)         118.1           Minimum Bend Radius         2.0 mm (Dynamic); 10 mm (Statio)           Shipping Weight (kg)         8.90         2.22.0 x 18.30           Shipping Weight (kg)         8.60         8.60           Shipping Weight (kg)         8.60         8.60           Shipping Weight (kg)         8.60         8.6	Mode Type	Multimode
PHYSICAL  Primary Form Factor Rackmount  Rack Height 3U  Cable Jacket Color Aqua  Cable Jacket Rating OFNP  Cable Outer Diameter (OD) 2.9 mm  Clad Diameter (microns) 125  Core Diameter (microns) 50  Primary Coating Diameter (microns) 245  Number of Fibers 8  Cable Length (ft.) 9.8  Cable Length (m) 2.99  Cable Length (in.) 118.1  Minimum Bend Radius 20 mm (Dynamic); 10 mm (Static)  Shipping Dimensions (hwd / in.) 8.90 x 22.80 x 18.90  Shipping Weight (kg) 8.60  Fiber Cable Length (3) 48.60  ENVIRONMENTAL  Operating Temperature Range 4° to 140°F (-20° to 60°C)  Operating Temperature Range 5% to 85% RH, Non-Condensing  COMMUNICATIONS	Firmware / Software Docs	
Primary Form Factor         Rackmount           Rack Height         3U           Cable Jacket Color         Aqua           Cable Jacket Rating         OFNP           Cable Jumeter (microns)         2.9 mm           Clad Diameter (microns)         125           Core Diameter (microns)         50           Primary Coating Diameter (microns)         245           Number of Fibers         8           Cable Length (ft.)         9.8           Cable Length (in.)         118.1           Minimum Bend Radius         20 mm (Dynamic): 10 mm (Static)           Shipping Dimensions (hwd / in.)         8.90 x 22.80 x 18.90           Shipping Weight (bs.)         18.96           Shipping Weight (kg)         8.60           Fiber Cable Length         3M (9.8 ft)           ENVIRONMENTAL           Operating Temperature Range         4° to 140°F (-20° to 60°C)           Storage Temperature Range         4° to 140°F (-20° to 60°C)           Operating Humidity Range         5% to 85% RH, Non-Condensing           Storage Humidity Range         5% to 85% RH, Non-Condensing	Offset Ports	No
Rack Height         3U           Cable Jacket Color         Aqua           Cable Jacket Rating         OFNP           Cable Outer Diameter (PD)         2.9 mm           Clad Diameter (microns)         125           Core Diameter (microns)         50           Primary Coating Diameter (microns)         245           Number of Fibers         8           Cable Length (ft.)         9.8           Cable Length (m)         2.99           Cable Length (in.)         118.1           Minimum Bend Radius         20 mm (Dynamic); 10 mm (Static)           Shipping Dimensions (hwd / in.)         8.90 x 22.80 x 18.90           Shipping Weight (lbs.)         18.96           Shipping Weight (kg)         8.60           Fiber Cable Length         3M (9.8 ft)           ENVIRONMENTAL           Operating Temperature Range         -4° to 140°F (-20° to 60°C)           Storage Temperature Range         -4° to 140°F (-20° to 60°C)           Operating Humidity Range         5% to 85% RH, Non-Condensing           Storage Humidity Range         5% to 85% RH, Non-Condensing	PHYSICAL	
Cable Jacket Rating         OFNP           Cable Jacket Rating         OFNP           Cable Outer Diameter (OD)         2.9 mm           Clad Diameter (microns)         125           Core Diameter (microns)         50           Primary Coating Diameter (microns)         245           Number of Fibers         8           Cable Length (ft.)         9.8           Cable Length (m)         2.99           Cable Length (in.)         118.1           Minimum Bend Radius         20 mm (Dynamic); 10 mm (Static)           Shipping Dimensions (hwd / in.)         8.90 x 22.80 x 18.90           Shipping Weight (lbs.)         18.96           Shipping Weight (kg)         8.60           Fiber Cable Length         3M (9.8 ft)           ENVIRONMENTAL           Operating Temperature Range         -4° to 140°F (-20° to 60°C)           Operating Humidity Range         5% to 85% RH, Non-Condensing           Storage Humidity Range         5% to 85% RH, Non-Condensing           COMMUNICATIONS	Primary Form Factor	Rackmount
Cable Jacket Rating         OFNP           Cable Outer Diameter (OD)         2.9 mm           Clad Diameter (microns)         125           Core Diameter (microns)         50           Primary Coating Diameter (microns)         245           Number of Fibers         8           Cable Length (ft.)         9.8           Cable Length (m)         2.99           Cable Length (in.)         118.1           Minimum Bend Radius         20 mm (Dynamic); 10 mm (Static)           Shipping Dimensions (hwd / in.)         8.90 x 22.90 x 18.90           Shipping Weight (lbs.)         18.96           Shipping Weight (kg)         8.60           Fiber Cable Length         3M (9.8 ft)           ENVIRONMENTAL           Operating Temperature Range         -4" to 140"F (-20" to 60"C)           Operating Humidity Range         5% to 85% RH, Non-Condensing           Storage Humidity Range         5% to 85% RH, Non-Condensing           Communications	Rack Height	3U
Cable Outer Diameter (OD)         2.9 mm           Clad Diameter (microns)         125           Core Diameter (microns)         50           Primary Coating Diameter (microns)         245           Number of Fibers         8           Cable Length (ft.)         9.8           Cable Length (m)         2.99           Cable Length (in.)         118.1           Minimum Bend Radius         20 mm (Dynamic); 10 mm (Static)           Shipping Dimensions (hwd / in.)         8.90 x 22.80 x 18.90           Shipping Weight (lbs.)         18.96           Shipping Weight (kg)         8.60           Fiber Cable Length         3M (9.8 ft)           ENVIRONMENTAL           Operating Temperature Range         -4° to 140°F (-20° to 60°C)           Storage Temperature Range         -4° to 140°F (-20° to 60°C)           Operating Humidity Range         5% to 85% RH, Non-Condensing           Storage Humidity Range         5% to 85% RH, Non-Condensing           COMMUNICATIONS	Cable Jacket Color	Aqua
Clad Diameter (microns)         125           Core Diameter (microns)         50           Primary Coating Diameter (microns)         245           Number of Fibers         8           Cable Length (ft.)         9.8           Cable Length (m)         2.99           Cable Length (in.)         118.1           Minimum Bend Radius         20 mm (Dynamic); 10 mm (Static)           Shipping Dimensions (hwd / in.)         8.90 x 22.80 x 18.90           Shipping Weight (lbs.)         18.96           Shipping Weight (kg)         8.60           Fiber Cable Length         3M (9.8 ft)           ENVIRONMENTAL           Operating Temperature Range         -4° to 140°F (-20° to 60°C)           Storage Temperature Range         -4° to 140°F (-20° to 60°C)           Operating Humidity Range         5% to 85% RH, Non-Condensing           Storage Humidity Range         5% to 85% RH, Non-Condensing	Cable Jacket Rating	OFNP
Core Diameter (microns)         50           Primary Coating Diameter (microns)         245           Number of Fibers         8           Cable Length (ft.)         9.8           Cable Length (m)         2.99           Cable Length (in.)         118.1           Minimum Bend Radius         20 mm (Dynamic); 10 mm (Static)           Shipping Dimensions (hwd / in.)         8.90 x 22.80 x 18.90           Shipping Weight (ibs.)         18.96           Shipping Weight (kg)         8.60           Fiber Cable Length         3M (9.8 ft)           ENVIRONMENTAL           Operating Temperature Range         -4° to 140°F (-20° to 60°C)           Storage Temperature Range         -4° to 140°F (-20° to 60°C)           Operating Humidity Range         5% to 85% RH, Non-Condensing           Storage Humidity Range         5% to 85% RH, Non-Condensing	Cable Outer Diameter (OD)	2.9 mm
Primary Coating Diameter (microns)         245           Number of Fibers         8           Cable Length (ft.)         9.8           Cable Length (m)         2.99           Cable Length (in.)         118.1           Minimum Bend Radius         20 mm (Dynamic); 10 mm (Static)           Shipping Dimensions (hwd / in.)         8.90 x 22.80 x 18.90           Shipping Weight (lbs.)         18.96           Shipping Weight (kg)         8.60           Fiber Cable Length         3M (9.8 ft)           ENVIRONMENTAL           Operating Temperature Range         -4° to 140°F (-20° to 60°C)           Storage Temperature Range         -4° to 140°F (-20° to 60°C)           Operating Humidity Range         5% to 85% RH, Non-Condensing           Storage Humidity Range         5% to 85% RH, Non-Condensing	Clad Diameter (microns)	125
Number of Fibers         8           Cable Length (ft.)         9.8           Cable Length (m)         2.99           Cable Length (in.)         118.1           Minimum Bend Radius         20 mm (Dynamic); 10 mm (Static)           Shipping Dimensions (hwd / in.)         8.90 x 22.80 x 18.90           Shipping Weight (lbs.)         18.96           Shipping Weight (kg)         8.60           Fiber Cable Length         3M (9.8 ft)           ENVIRONMENTAL           Operating Temperature Range         -4° to 140°F (-20° to 60°C)           Storage Temperature Range         -4° to 140°F (-20° to 60°C)           Operating Humidity Range         5% to 85% RH, Non-Condensing           Storage Humidity Range         5% to 85% RH, Non-Condensing	Core Diameter (microns)	50
Cable Length (ft.)       9.8         Cable Length (m)       2.99         Cable Length (in.)       118.1         Minimum Bend Radius       20 mm (Dynamic); 10 mm (Static)         Shipping Dimensions (hwd / in.)       8.90 x 22.80 x 18.90         Shipping Weight (lbs.)       18.96         Shipping Weight (kg)       8.60         Fiber Cable Length       3M (9.8 ft)         ENVIRONMENTAL         Operating Temperature Range       -4° to 140°F (-20° to 60°C)         Storage Temperature Range       -4° to 140°F (-20° to 60°C)         Operating Humidity Range       5% to 85% RH, Non-Condensing         Storage Humidity Range       5% to 85% RH, Non-Condensing	Primary Coating Diameter (microns)	245
Cable Length (m)         2.99           Cable Length (in.)         118.1           Minimum Bend Radius         20 mm (Dynamic); 10 mm (Static)           Shipping Dimensions (hwd / in.)         8.90 x 22.80 x 18.90           Shipping Weight (lbs.)         18.96           Shipping Weight (kg)         8.60           Fiber Cable Length         3M (9.8 ft)           ENVIRONMENTAL           Operating Temperature Range         -4° to 140°F (-20° to 60°C)           Storage Temperature Range         -4° to 140°F (-20° to 60°C)           Operating Humidity Range         5% to 85% RH, Non-Condensing           Storage Humidity Range         5% to 85% RH, Non-Condensing	Number of Fibers	8
Cable Length (in.)  Minimum Bend Radius  20 mm (Dynamic); 10 mm (Static)  Shipping Dimensions (hwd / in.)  8.90 x 22.80 x 18.90  Shipping Weight (lbs.)  18.96  Shipping Weight (kg)  8.60  Fiber Cable Length  3M (9.8 ft)  ENVIRONMENTAL  Operating Temperature Range  -4° to 140°F (-20° to 60°C)  Storage Temperature Range  5% to 85% RH, Non-Condensing  Storage Humidity Range  5% to 85% RH, Non-Condensing	Cable Length (ft.)	9.8
Minimum Bend Radius 20 mm (Dynamic); 10 mm (Static)  Shipping Dimensions (hwd / in.) 8.90 x 22.80 x 18.90  Shipping Weight (lbs.) 18.96  Shipping Weight (kg) 8.60  Fiber Cable Length 3M (9.8 ft)  ENVIRONMENTAL  Operating Temperature Range -4° to 140°F (-20° to 60°C)  Storage Temperature Range 5% to 85% RH, Non-Condensing  Storage Humidity Range 5% to 85% RH, Non-Condensing	Cable Length (m)	2.99
Shipping Dimensions (hwd / in.)  Shipping Weight (lbs.)  Shipping Weight (kg)  Shipping	Cable Length (in.)	118.1
Shipping Weight (lbs.)  Shipping Weight (kg)  8.60  Fiber Cable Length  M (9.8 ft)  ENVIRONMENTAL  Operating Temperature Range  -4° to 140°F (-20° to 60°C)  Storage Temperature Range  -4° to 140°F (-20° to 60°C)  Operating Humidity Range  5% to 85% RH, Non-Condensing  Storage Humidity Range  5% to 85% RH, Non-Condensing	Minimum Bend Radius	20 mm (Dynamic); 10 mm (Static)
Shipping Weight (kg)  8.60  Fiber Cable Length  3M (9.8 ft)  ENVIRONMENTAL  Operating Temperature Range  -4° to 140°F (-20° to 60°C)  Storage Temperature Range  -4° to 140°F (-20° to 60°C)  Operating Humidity Range  5% to 85% RH, Non-Condensing  Storage Humidity Range  5% to 85% RH, Non-Condensing	Shipping Dimensions (hwd / in.)	8.90 x 22.80 x 18.90
Fiber Cable Length  3M (9.8 ft)  ENVIRONMENTAL  Operating Temperature Range -4° to 140°F (-20° to 60°C)  Storage Temperature Range -4° to 140°F (-20° to 60°C)  Operating Humidity Range 5% to 85% RH, Non-Condensing  Storage Humidity Range 5% to 85% RH, Non-Condensing	Shipping Weight (lbs.)	18.96
ENVIRONMENTAL  Operating Temperature Range	Shipping Weight (kg)	8.60
Operating Temperature Range -4° to 140°F (-20° to 60°C)  Storage Temperature Range -4° to 140°F (-20° to 60°C)  Operating Humidity Range 5% to 85% RH, Non-Condensing  Storage Humidity Range 5% to 85% RH, Non-Condensing  COMMUNICATIONS	Fiber Cable Length	3M (9.8 ft)
Storage Temperature Range -4° to 140°F (-20° to 60°C)  Operating Humidity Range 5% to 85% RH, Non-Condensing  Storage Humidity Range 5% to 85% RH, Non-Condensing  COMMUNICATIONS	ENVIRONMENTAL	
Operating Humidity Range 5% to 85% RH, Non-Condensing Storage Humidity Range 5% to 85% RH, Non-Condensing  COMMUNICATIONS	Operating Temperature Range	-4° to 140°F (-20° to 60°C)
Storage Humidity Range 5% to 85% RH, Non-Condensing  COMMUNICATIONS	Storage Temperature Range	-4° to 140°F (-20° to 60°C)
COMMUNICATIONS	Operating Humidity Range	5% to 85% RH, Non-Condensing
	Storage Humidity Range	5% to 85% RH, Non-Condensing
Network Compatibility 40 Gbps; 100 Gbps; 400 Gbps	COMMUNICATIONS	
	Network Compatibility	40 Gbps; 100 Gbps; 400 Gbps



1300nm; 850nm		
3.0 dB / km		
1.0 dB / km		
MTP/MPO: 0.35 dB; LC: 0.20 dB		
CONNECTIONS		
(64) MTP/MPO (FEMALE)		
(256) LC DUPLEX (FEMALE)		
PC		
FEATURES & SPECIFICATIONS		
Yes		
LC; MPO/MTP		
STANDARDS & COMPLIANCE		
RoHS; REACH		
WARRANTY & SUPPORT		
Lifetime limited warranty		



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