



FIBERMANIA

Shenzhen FiberMania Technology Co., Ltd.
optical-fibercables.com

High Density MPO Trunk Cable for 40G/100G/400G Networks with 150m at 850nm and 400m at 850nm Transmission

Our Product Introduction

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Basic Information

- Certification: RoHS, CE, ISO9001
- Minimum Order Quantity: 10
- Price: 3.2



Product Specification

- Connection Structure: MPO-MPO
- Material Shape: Round Wire
- Allowed Tensile Strength: <100N
- Core: Multicore
- Connector A: MPO Female
- Connector B: MPO Female
- Fiber Mode: OM4 50/125μm
- 40/100G Distance: 150m At 850nm
- 10G Distance: 400m At 850nm
- Glass Fiber: Corning ClearCurve®
- Minimum Bend Radius: 3.0mm
- Wavelength: 850/1300nm
- Attenuation At 850nm: ≤2.3dB/km
- Attenuation At 1300nm: ≤0.6dB/km
- Installation Tensile Load: 66N



More Images



Product Description

High Density MPO-MPO Female/Male Trunk Cable Patch Cord Fiber Optic Jumper, OM3 OM4, Aqua

FiberMania supplies MTP® breakout cables in single-mode and multimode configurations, available with 12, 24, 48, and 72 fibers. These assemblies split one 12-strand MTP® fiber optic cable into 12 individual SC cables. Available in both male and female styles with various lengths and fan tube diameters.



MTP/MPO Cable Assemblies (also known as MTP® Breakout Fiber) are ideal for data distribution patch panels and plenum applications.

Key Features

- Multi-core Connectivity:** Compatible with 12F/24F/48F/72F jumpers
- High Bandwidth & Low Loss:** Precision-polished fiber end faces with ≤0.3dB insertion loss, supporting 40G/100G/400G high-speed transmission
- Durable Construction:** OM3/OM4 fiber with dust-proof buckle design, >500 plug cycles, anti-bending and anti-interference
- Plug-and-Play:** Pre-terminated design saves 90% installation time
- Flexible Configuration:** Customizable in 12/24/48 cores with lengths from 0.5m to 50m

Technical Specifications

Connector	MPO/MTP (Male/Female)
Fiber Mode	SM(OS2) MM(OM1/OM2/OM3/OM4/OM5)
Polishing Type	PC APC PC
Insertion Loss	Typical≤0.30dB Max≤0.75dB (Standard) Typical≤0.15dB Max≤0.35dB (Elite)
Return Loss	≥50dB (Standard) ≥55dB (Elite)
Repeatability	≤0.1dB
Durability	≤0.2dB (1000 mating cycles)
Fiber Count	8/12/24/48/72/96/144 Fibers
Cable Jacket	PVC/OFNR/OFNP/LSZH
RoHS Compliance	Compliant

Applications

- Data Distribution Patch Panels
- High-Density Networking Environments
- Plenum Spaces
- MPO/MTP Adapter Panel Integration
- Active Optical Network Transceiver Control
- Optical Fiber Distribution Systems

Product Advantages

- Versatile Fiber Options:** Single-mode and multimode configurations
- Multiple Fiber Counts:** 12, 24, 48, or 72 fibers available
- Breakout Design:** Splits MTP® cable into 12 individual SC cables
- Flexible Configurations:** Male and female styles with customizable lengths

Quality Testing



IL and RL Testing: Verifies insertion loss and return loss for stable signal transmission.



3D Interferometer Testing: Ensures connector parameters meet specifications for reliable connections.

End-Face Inspection: Examines connector tips for defects to maintain communication quality.

Production Equipment

Certifications

Packaging & Shipping

Frequently Asked Questions

Q1: What is the warranty of FiberMania's fiber patch cord?

A: FiberMania warrants all fiber patch cords against defects in material and workmanship for five (5) years from supply date. All cables are UL profiled and 100% tested.

Q2: Is it possible to customize our brand information on your fiber cable?

A: Yes, we can print your brand name on the cable jacket with a minimum 1KM total cable length requirement.

Q3: Can you do 3D interferometer test?

A: Yes, we perform 3D testing per customer request with pass rates exceeding 90% (up to 100% when required).

Q4: What is your MOQ?

A: We only require MOQ for special customized orders (minimum 1km total length). Bulk cable can be stocked for urgent orders.

Q5: Are free samples available?

A: Yes, we provide free samples for customer projects when total cost is under \$50 USD.



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