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Shenzhen FiberMania Technology Co., Ltd.  
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## OM4 MPO Trunk Patch Cord High Density Fiber Trunk Assembly for Data Center

Our Product Introduction

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### Basic Information

- Minimum Order Quantity: 30
- Price: US\$3.20-5.30
- Payment Terms: L/C, D/A, D/P, T/T, Western Union, MoneyGram



### Product Specification

- Highlight: OM4 MPO trunk patch cord, high density fiber trunk assembly, MPO trunk cord for data center



### More Images



## Product Description

## OM4 MPO Trunk Patch Cord High Density Fiber Trunk Assembly for Data Center

MPO (Multi-fiber Push-On) jumpers are optical transmission components based on high-density multi-fiber optical connectors. They are mainly precision-manufactured using MPO/MTP connectors and multi-fiber optical cables, achieving accurate positioning and connection through guide pins and guide holes on the ferrule end face. Their core feature is the multi-fiber parallel transmission structure, which can integrate 2-144 fibers. The mainstream models are primarily 12-fiber, 24-fiber, and 48-fiber, enabling simultaneous transmission of multiple optical signals through a single jumper.

This product adopts MT series precision ferrules (size: 6.4×2.5mm) with a snap-lock mechanical structure, supporting quick plug-and-play operations. The connector is equipped with a dust cap to protect the end face from contamination. Functionally, it can be divided into two types: non-adaptive type (with MPO interfaces at both ends, used for direct interconnection between devices) and adaptive type (with an MPO interface at one end and fan-out single-fiber interfaces such as LC/SC/FC at the other end, realizing adaptation of different interfaces). It fully complies with Telcordia-GR-326, IEC international standards and RoHS environmental requirements.



### Features

1. Replaces multiple single-fiber jumpers, increasing wiring density by over 80% and saving cabinet space; supports 48+ fibers for large data centers.
2. Ensures precise fiber alignment with insertion loss  $\leq 0.35\text{dB}$  (low-loss) and return loss  $\geq 55\text{dB}$  (single-mode APC), supporting stable 400G/800G transmission.
3. Push-pull plug-and-play design supports hot-swapping; color-coded with clear polarity (Type A/B/C) for easy debugging.
4. LSZH/OFNR/OFNP sheath, operating temp -30 ~60 (LSZH), plugging life  $\geq 500$  times with stable performance.
5. Customizable fiber count (8-144), length; compatible with 10G-1.6T networks for smooth upgrades.

### Applications

1. Core for high-speed interconnection between servers/switches; compatible with 400G/800G optical modules. Improves wiring density by 50% and reduces power consumption by 20% in large data centers.
2. Connects optical modules and antennas in 5G base stations, providing microsecond-level latency for autonomous driving/telemedicine; used for signal distribution in telecom networks.
3. Enables LAN interconnection between buildings, supporting cloud office and video conferences; deployed between core/access switches to achieve 10Gbps full coverage in parks.

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