

# MPO Fiber Patch cord 3.00mm OM4

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## Variants

F-F 12 PIN 10M F-F 12 PIN 3M F-F 12 PIN 5M F-F 12 PIN 15M

## Details

# MPO Fiber Patch Cord 3.00mm OM4

**Overview:** The MPO Fiber Patch Cord 3.00mm OM4 is a high-performance optical fiber cable designed for high-speed data transmission over short and long distances in various network environments. This patch cord is specifically designed for Multi-fiber Push-On (MPO) connectors and is built with OM4-grade optical fiber, which provides an efficient and reliable solution for high-density data applications. The 3.00mm outer diameter ensures durability, flexibility, and ease of installation in tight spaces or high-density patch panels.

## Key Features:

### 1. MPO Connector:

- Equipped with a Multi-fiber Push-On (MPO) connector, the MPO fiber patch cord is ideal for high-density fiber optic applications such as data centers, telecom networks, and enterprise networks.
- MPO connectors are capable of supporting 12, 24, or more fiber channels, allowing for efficient space utilization and simplified cable management.

### 2. OM4 Fiber Type:

- The OM4 fiber standard supports high bandwidth and long-distance transmission with a low modal dispersion, ensuring faster data transfer rates and greater efficiency.
- OM4 is designed for 100Gbps Ethernet, Fiber Channel, and other high-speed data transmission applications.
- OM4 fiber can support 10 Gigabit Ethernet (10GbE) transmission up to 550 meters, 40GbE and 100GbE transmission up to 150 meters, making it ideal for backbone and data center environments.

### **3. 3.00mm Outer Diameter:**

- The 3.00mm jacket provides durability and protection to the internal fibers while maintaining a flexible design for easy routing and installation.
- This size is particularly useful in high-density environments where space-saving and ease of cable management are crucial.

### **4. Low Insertion Loss:**

- The patch cord is engineered with minimal insertion loss, ensuring the integrity and quality of data transmission, particularly for high-speed network operations.
- High-quality polishing of the connectors minimizes signal loss and improves overall performance.

### **5. Rugged Construction:**

- The outer jacket of the patch cord is made from a robust material that resists mechanical stresses, ensuring longevity and resistance to environmental conditions.
- It also provides protection against dust, moisture, and other potential contaminants in the network.

### **6. Compatibility:**

- Fully compatible with standard MPO fiber optic systems, making it easy to integrate into existing infrastructures.
- Suitable for use with both active and passive optical components like MPO cassettes, patch panels, and fiber distribution units (FDUs).

### **7. Color Coding:**

- Typically, the OM4 patch cord features a distinct aqua color, providing easy identification and compatibility with the OM4 standard.

### **RoHS Compliant:**

- The MPO fiber patch cord complies with the RoHS (Restriction of Hazardous Substances) directive, ensuring it is free from harmful substances like lead, mercury, and cadmium.

### **8. Operating Temperature:**

- The patch cord can operate in a wide range of temperatures, typically from -20°C to 70°C, making it suitable for use in various environments, including harsh industrial or outdoor settings.

## Applications:

**Data Centers:** Ideal for high-density data center environments requiring efficient and high-speed data transmission.

**Telecommunications Networks:** Supports the backbone of telecom networks, ensuring fast and reliable communication across large distances.

**High-Speed Ethernet:** Perfect for 10G, 40G, and 100G Ethernet applications, offering future-proofing for evolving network speeds.

**Server Farms:** Utilized in server farms where high-density and long-distance data transmission is necessary for smooth operations.

**Enterprise Networks:** Suitable for large-scale enterprise environments, enabling efficient connectivity and reducing network congestion.

## Specifications:

**Connector Type:** MPO/MTP (Male or Female)

**Fiber Count:** 12 fibers (standard) or customizable for 24 fibers

**Fiber Type:** OM4 Multimode Fiber

**Jacket Type:** LSZH (Low Smoke Zero Halogen) or OFNR (Optical Fiber Non-Communicating Riser)

**Outer Jacket Diameter:** 3.00mm

**Insertion Loss:** Typically 0.35dB per connector (depending on connector type)

**Return Loss:** ≥30dB

**Wavelength:** 850nm (optimized for OM4)

**Operating Temperature Range:** -20°C to 70°C

**Compliance:** RoHS, IEC 61754-7, TIA-604-5 (MPO)

**Color:** Aqua (for OM4)

## Why Choose MPO Fiber Patch Cord OM4 3.00mm?

The MPO Fiber Patch Cord 3.00mm OM4 is the ideal choice for those looking to improve network efficiency with a reliable and high-performance fiber optic solution. With its exceptional bandwidth capabilities, low insertion loss, and rugged construction, it is perfect for applications that demand high-speed data transfer, such as modern data centers, telecom infrastructures, and enterprise networks.

Whether upgrading your existing network or deploying a new high-speed system, this fiber patch cord provides the reliability and performance required for today's demanding environments, all while ensuring cost-effective installation and maintenance.