



FIBERMANIA

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

市光通信技术有限公司



Factory Direct 12/6 Core MPO to LC Fiber Optic Patch Cord with Dual Core for High-Speed Data Transmission

Our Product Introduction

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Basic Information

- Certification: RoHS, CE, ISO9001
- Minimum Order Quantity: 10
- Price: 6.5



Product Specification

- Connection Structure: MPO-LC
- Material Shape: Round Wire
- Allowed Lateral Pressure: $100(N/100mm) < 1000(N/100mm)$
- Allowed Tensile Strength: $100N < 1000N$
- Sheath Material: PVC/LSZH
- Connector A: MPO/MTP
- Connector B: LC
- Polish: APC/PC/UPC
- Fiber Type: OS2/OM1/OM2/OM3/OM4/OM5
- Core Number: 8~24 Core
- Cable Diameter: 3.0mm
- MPO Connector IL: $\leq 0.65dB$
- LC Connector IL: $\leq 0.2dB$
- MPO Connector RL: $\geq 60dB$
- LC Connector RL: $\geq 50dB$



More Images



Product Description

Factory Direct Dual Core LC Fiber Optic Patch Cord

High-Performance 12/6 Core MPO UPC/APC Cables

Our factory-supplied fiber optic patch cords are engineered for reliable high-speed data transmission across LAN, WAN, FTTH, and data center applications. With customizable options in fiber type, jacket material, and connector types, we ensure flexibility to meet diverse project requirements.

Key Features

- **Factory Direct & OEM Service** - Custom length, color, diameter, and connector combinations
- **High Compatibility** - Singlemode & multimode options, supporting OM1/OM2/OM3/OM4/OM5 standards
- **Low Loss Performance** - Insertion loss $\leq 0.2\text{dB}$, UPC return loss $\geq 50\text{dB}$
- **Versatile Applications** - FTTH/FTTB/FTTX, data centers, LAN/WAN, CATV, GPON, EPON
- **Durable & Safe** - LSZH/PVC/OFNP jackets, operating temperature -40°C to $+85^{\circ}\text{C}$

Applications

LAN, WAN and Metro Networks
FTTH project & FTTX Deployments
CATV System
GPON, EPON
Fiber Optic Test Equipment
Data-base Transmit Broadband Net

Technical Specifications

Product Name	Fiber Optic Patch Cord
Fiber Type	Single/Multi Mode, G652D/G657A1/G657A2/OM1/OM2/OM3/OM4/OM5
Jacket Material	LSZH/PVC/OFNP/OFRP
Cable Diameter	2.0mm/3.0mm/5.0mm/Customize
Connector Type	SC/LC/FC/E2000/ST/Fast Connector/MPO/MTP
End Face	UPC/APC/PC
Working Wavelength (nm)	850-1300/1310-1550
Insertion Loss (dB)	$\leq 0.2\text{dB}$
Return Loss (dB)	UPC $\geq 50\text{dB}$
Operating Temperature ($^{\circ}\text{C}$)	$-40\sim 85$
Jacket Color	Yellow/Red/Black/White/Violet/Customize

Quality Assurance

At our fiber optic manufacturing facility, strict quality control is applied at every stage of production to ensure reliable performance and long service life. All products undergo rigorous in-line testing and final inspection, including insertion loss and return loss measurement, 3D interferometer end-face inspection, tensile strength testing, and temperature cycling to verify durability under harsh conditions.

Production Equipment

Packaging & Shipping

Each fiber optic patch cord is carefully packed to ensure maximum protection during storage and transportation. For bulk orders, products are arranged in strong corrugated cartons with internal partitions to prevent bending, crushing, or connector damage. Customized packaging with customer logo and labeling is available upon request.

Frequently Asked Questions

Q1: Are you a manufacturer or trading company?

A1: We are a professional fiber optic cable manufacturer with over 10 years of production experience. All patch cords are factory direct with OEM/ODM customization available.

Q2: Can the fiber type and connector be customized?

A2: Yes, we offer Singlemode (G652D, G657A1/A2) and Multimode (OM1-OM5) fibers, with LC, SC, FC, ST, MPO/MTP, and E2000 connectors. Both UPC and APC polishing are supported.

Q3: What is the typical insertion loss and return loss of your patch cords?

A3: Our cables feature low insertion loss ≤ 0.2 dB and high return loss ≥ 50 dB (UPC) / ≥ 60 dB (APC), ensuring stable and efficient transmission.

Q4: What jacket materials are available?

A4: Standard options include LSZH, PVC, and OFNP. Custom colors and diameters (2.0mm, 3.0mm, 5.0mm) can also be provided upon request.

Q5: Do you provide sample orders for testing?

A5: Yes, samples are available to test quality before bulk order. Contact us for details and lead time.

Q6: How do you ensure product quality?

A6: Every patch cord undergoes 100% performance testing, including insertion/return loss, end-face inspection, and mechanical reliability checks, in compliance with ISO and IEC standards.

Q7: What are the applications of your fiber optic patch cords?

A7: They are widely used in FTTH/FTTX projects, data centers, LAN/WAN networks, CATV systems, GPON/EPON deployments, and telecom backbone connections.

Q8: What is the delivery time for bulk orders?

A8: Standard lead time is 5-10 working days depending on order quantity. For urgent requirements, we provide expedited production service.



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