Direct Sales of Long-Distance Optical Cables Multimode



Overview

Our multimode bulk fiber optic cable collection is designed for optimal performance and reliability in high-speed data transmission applications.

Key Takeaways

Multimode optical cables are available for direct purchase from wholesale suppliers, optimized for short to medium distances, with specifications varying by core size, bandwidth, and application.

Overview of Multimode Optical Cables

Multimode fiber optic cables are designed to carry multiple light rays simultaneously, making them suitable for high-speed data transmission over shorter distances, typically within buildings or campuses, though some configurations can support longer links with proper equipment. They have a larger core diameter (commonly 50/125 µm or 62. 5/125 µm), which allows multiple modes of light to propagate but results in higher signal loss and lower bandwidth compared to single-mode fiber.

Multimode cables are cost-effective for applications such as IT networks, data centers, and telecom backbones.

Long-



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Distance Considerations

While multimode fiber is generally recommended for shorter distances, long-distance deployment is possible with laser-optimized multimode fibers (LOMMF) such as OM3, OM4, and OM5, which support higher data rates and extended reach using VCSELs or wavelength-division multiplexing (WDM) technology. For example, OM3 and OM4 fibers can handle 10–400 Gbps Ethernet over distances up to 300–550 meters, and OM5 supports WDM for multiple wavelengths, extending effective reach in high-speed networks.

Direct Sales and Suppliers

Wholesale suppliers such as CableWholesale offer multimode fiber optic cables in bulk, including duplex configurations (50/125 or 62. 5/125 µm) and accessories like connectors, converters, and enclosures. These suppliers provide competitive pricing for bulk purchases, making them suitable for enterprises, telecom providers, and data center operators.

Other major manufacturers in the global fiber optic market include Corning, Prysmian Group, Fujikura, Sterlite Technologies, Sumitomo Electric, LS Cable & System, and YOFC, which supply multimode cables for industrial, telecom, and subsea applications.

Market Trends

The multimode fiber market is growing steadily, with a global market size of $10. 78 billion in 2025, projected to reach $11. 04 billion in 2026 at a CAGR of 2.

4%. Growth is driven by the expansion of IoT, data centers, and high-speed LANs.

Asia-

Pacific is the largest regional market, while North America is the fastest-growing region. Innovations in manufacturing and laser-optimized fibers are enabling longer-distance multimode deployments.

Recommendations for Buyers

Select the appropriate fiber type: OM3/OM4/OM5 for longer distances and higher data rates. Consider core size: 50 µm is standard for modern networks; 62. 5 µm is legacy.

Check compatibility: Ensure network equipment supports the chosen multimode fiber and SFP+ modules. Bulk purchasing: Direct sales from wholesalers can reduce costs and provide access to connectors and converters. Future-proofing: OM5 fibers allow WDM, supporting multiple wavelengths for higher throughput over the same cable.

By sourcing from reputable suppliers and selecting the correct multimode fiber type, organizations can deploy long-distance optical networks efficiently while maintaining high-speed data transmission and reliability.

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Article Content

Bulk Multimode Fiber Optic Cables

Our multimode bulk fiber optic cable collection is designed for optimal performance and reliability in high-speed data transmission applications.

Fiber Optic Cables | Fiber Patch Cables | Patch Cords, Duplex

We stand behind the craftsmanship of every fiber optic product we deliver. From Indoor / Outdoor, Single mode & Multimode to Mode Conditioning and SFP Transceivers. Every fiber product shipped comes

Bulk Fiber Optic Cables

Each person''s fiber optic cable needs may be different—we carry LC, ST, and SC connectivity, single mode or multimode fiber optic cable, media converters, duplex and simplex cable, plenum bulk fiber,

Bulk Fiber Optic Cables for Indoor & Outdoor Applications

High quality fiber optic cables from Corning, AFL, OCC, Mohawk and other leading manufacturers. Aerial, ADSS, armored, distribution, direct burial and more.

Fiber Optic Cables

We offer specialized fiber optic cable assemblies in single mode or multimode and simplex or duplex optic cables featuring ST, SC, FC, LC, MTRJ, and MU-style fiber connectors.

Bulk Fiber Optic Cable

Our bulk fiber optic cable is an optimal choice for a variety of applications, including data center connectivity, enterprise networks, industrial automation, military and government applications and

Quality Bulk Multimode & Single Mode Fiber Optic Cables

Shop our diverse range of bulk fiber optic cables, tailored for various networking needs. We provide both single-mode and multimode options, catering to different distances, applications, and equipment

Fiber Optic Cable: Single & Multimode Cables By The

We offer fiber optic cable by the foot in a variety of fiber types and strand counts to meet your network installation needs. Whether you''re building a new system or

Bulk Fiber Optic Cable, Single mode/ Multimode, OS2, OM1, OM2, OM3

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Fiber Savvy carry LC, ST, and SC connectivity, single mode or multimode fiber optic cable, media converters, duplex and simplex cable, plenum bulk fiber, all at various lengths and sizes.

48 Cores GYTS Fiber Optic Cable Stranded Steel Tape

Applications Outdoor telecommunication backbone networks Direct burial and duct fiber installations Long-distance high-bandwidth connections Campus and metropolitan area networks

Fiber Optic Cables | Fiber Patch Cables | Patch Cords,

Fiber Patch Cables, Multimode & Singlemode Duplex Fiber Optic Cables, Secure Order Fiber Patch Cords, Preferred Mil. Edu. Gov. Pricing, Same Day Shipping

24 Core Outdoor Armored Double Jacket Fiber Optic Cable

24 Core Fiber Optic Cable GYTY53 Outdoor Armored Double Jacket Waterproof Gel Filled loose tube direct burial is used for direct buried underground, it suit for long distance and LAN fiber

Fiber Optic Cable Types – Multimode and Single Mode

However, on longer cable runs, multiple paths of light can cause distortion at the receiving end, resulting in an unclear and incomplete data transmission. For this reason, Multimode is generally only used for

What Is Fiber Optics? Definition from SearchNetworking

Types of fiber optic cables Multimode fiber and single-mode fiber are the two primary types of fiber optic cable. Single-mode fiber Single-mode fiber is used for longer distances due to the

Cisco 10GBASE SFP+ Modules Data Sheet

Cisco SFP+ Active optical cables Cisco SFP+ Active Optical Cables (Figure 5) are direct-attach fiber assemblies with SFP+ connectors. They are suitable for very short distances and offer a

7 Best Fiber Optic LAN Cable | Stop Losing Signal at Distance

After sifting through armored sheathing data, insertion loss specs, and hundreds of verified buyer accounts, this guide narrows down the best fiber optic lan cable for runs that demand reliability,

Complete Guide to Optical Fiber Cable: Types, Applications, and ...

How Optical Fiber Cable Works Optical fiber cable transmits data as pulses of light rather than electrical signals, which allows it to carry information over much longer distances and at much higher speeds

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100G Optical Module: How to Choose Between SR4,

3.100G BiDi SR Asterfusion QSFP28-100G-SR BiDi 850nm 910nm 100m Duplex LC MMF Transmission Distance: Up to 100m Transmission Mode:

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