

50 meters of 12-core telecommunications fiber optic cable



Overview

Make sure your network is reinforced with ELV CABLE fiber pigtails, as ours are manufactured of superior quality materials.

Key Takeaways

A 50-meter 12-core fiber optic cable is a high-density, multimode or single-mode cable designed for high-speed data transmission in data centers and enterprise networks.

A 12-core fiber optic cable contains twelve individual optical fibers within a single protective jacket, allowing multiple data streams to be transmitted simultaneously. This makes it ideal for high-bandwidth applications, network backbones, and data center interconnects, maximizing efficiency while minimizing cable clutter.

Types and Specifications

- Multimode Fiber (OM3/OM4/OM5): Suitable for short-range, high-speed connections up to 550 meters. OM4 cables often have an aqua or violet jacket and support 40/100 Gigabit Ethernet.
- Single-Mode Fiber: Designed for long-distance runs, typically used in ISP backbones or campus networks. These cables usually have a yellow jacket.
- Core Size: Common multimode fibers have a 50/125 micron core, supporting high-speed data transfer.

- **Connectors:** MTP/MPO connectors are commonly used for 12-core cables, allowing easy trunking and breakout to LC connectors for individual device connections .

Features

- **Length:** 50 meters (164 feet), suitable for medium-range connections within buildings or data centers .
- **Jacket Types:** Options include plenum-rated (OFNP) for fire safety in ceilings and walls, or riser-rated PVC for general use .
- **High-Density Design:** A single 12-core cable can replace multiple individual cables, reducing installation labor and improving cable management .
- **Performance:** Supports data rates up to 100 Gigabit Ethernet, bridging legacy 1G/10G networks to modern 40G/100G infrastructures .

Applications

- **Data Centers:** High-density interconnects between switches, servers, and storage devices.
- **Enterprise Networks:** Backbone connections and high-speed internal links.
- **Telecommunications:** Short- to medium-range fiber runs where multiple channels are needed.

Installation Considerations

- Follow TIA-598 color standards to maintain fiber organization.
- Ensure proper bend radius to avoid signal loss.
- Use plenum-rated cables in areas requiring fire-retardant materials.
- MTP to LC breakout cables can connect 12 individual devices from a single trunk line . A 50-meter 12-core fiber optic cable is a versatile, high-performance solution for modern networking needs, offering both scalability and efficiency in high-speed data environments .

Article Content

MTP 12-Strand OM3 40/100 Gigabit Type-B Fiber Optic Cable

Product Description This 50 meter (164 foot) high-quality Plenum approved Type-B female MTP (MPO) fiber optic cable is rated to

50 Meter Multimode Duplex Fiber Optic Cable (50/125)

Upgrade your network with our high-quality fiber patch cables, designed for lightning-fast speeds, reliability, and long-term

760154633 | D-048-LA-CM-F12NS/8W024/5K024 | CommScope

Fiber OSP cable, TeraSPEED® Single Jacket/Single Armor, Gel-Free, 48 fibers, Stranded Loose Tube, Composite OM4 and

Fiber Optic Cable Sizes: A Comprehensive Analysis

Core Sizes and Performance The core is the main component of fiber cable because it's the transparent area where

best 12 core fiber optic cable Multimode

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Fiber Optic Cable Types - Multimode and Single Mode

The Optical Core - a glass tube (core) propagates the light signals through the fiber cable. Glass is inherently

Multimode 50/125 OM3 Fiber Optic Cables | 10G, 40G, 100G

The 50/125 OM3 fiber optic cable, also known as laser-optimized multimode fiber, features a 50-micron core and 125-micron

50 Meter Multimode Duplex Fiber Optic Cable (50/125)

Our Fiber Optic Cables are engineered for universal compatibility with a wide range of networking devices. Perfectly suited for

Bulk Fiber Optic Cables for Internet | CableWholesale

Fiber optic cables are one of the most popular types of long-distance networking cable, making them ideal for a variety of

OM4 Multimode 50/125 10/40/100 Gig 12-Strand Fiber Cable

This 12-strand OM4 multimode 50/125 fiber distribution cable has a standard two foot breakout on each end and is built without

50M MTP Fiber Cable

This singlemode, MTP/MPO fiber cable is comprised of 12 fibers or 6 duplex channels within each connector. These high density

50M OM3 MPO LCx12 Multi-Fiber Breakout Cable

Fiber Patch Cable Details: 50 Meter (164 feet), 1/10/40Gb Multimode, Zip-Cord Reinforced, 12 Fiber Strands, MPO to LC, UPC

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

