

Indoor optical fiber cable



Summary of Content

Indoor optical fiber cables are designed for safe, high-performance data transmission within buildings, featuring flame-retardant, low-smoke, and zero-halogen jackets for indoor use.

Types and Construction

Indoor fiber optic cables come in several types depending on the application and environment:

- Single-mode (OS1/OS2): Optimized for long-distance, high-bandwidth transmission, typically used in backbone networks.
- Multimode (OM3/OM4): Suitable for shorter distances, such as within data centers or office floors, supporting high-speed LAN connections.
- Armored vs Non-Armored: Armored cables include a metal or steel layer for extra protection against mechanical damage, rodents, or accidental compression, while non-armored cables are lighter and easier to route in controlled environments ().
- Plenum-rated vs Riser-rated: Plenum-rated cables are designed for air-handling spaces and have strict flame and smoke standards, whereas riser-rated cables are suitable for vertical shafts between floors ().

Protective Features

Indoor cables often include:

- LSZH (Low Smoke Zero Halogen) jackets: Reduce toxic fumes and smoke in case of fire, making them safer for indoor use ().

Article Content

Fiber Indoor Cables

Explore CommScope's Fiber Optic Cables for reliable connectivity. Our high-quality fiber optic cabling solutions ensure seamless

Indoor Fiber Optic Cable

Indoor fiber optic cable are optical cables laid in buildings. It has low tensile strength and light weight, which is economical for

Indoor vs Outdoor Fiber Cable Differences Explained

Learn the engineering differences between indoor and outdoor fiber cables, including jacket materials, fire rating,

Indoor Fiber Optic Cables | Flame Retardant Indoor Cable Products

These indoor fiber optic cables are used exclusively within buildings and must have a flame-retardant cable jacket to fit this purpose.

Indoor and Outdoor Fiber Cable Installation Best Practices and

Explore best practices for installing indoor and outdoor fiber optic cables, including conduit, direct burial, riser, and

The Ultimate Guide to Indoor Fiber Cable in 2025

At its core, an indoor fiber cable is a type of cable containing one or more optical fibers that are used to carry light.

Fiber Indoor & Outdoor Cables

Learn more about high-performance indoor/outdoor fiber cables by CommScope. Enhance connectivity with precision.

Indoor Fiber Optic Cable Types: Top 12 List

This guide explores common indoor cable varieties and their distinct attributes when wiring rooms or structures for high-speed fiber

Fiber Optic Indoor/Outdoor Cables

These are cables that are designed to meet both the rigorous environment of the outdoors but also can be routed indoors, where

Indoor Fiber Optic Cables | Tight Buffered Fiber Cables

With global standards compliance and a wide choice of fiber counts, jacket options, and bend-insensitive SMF/MMF, we provide the

Contact Us

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