

Multimode fiber optic cable for outdoor use



Article Overview

Multimode outdoor fiber optic cables (OM1, OM2, OM3, OM4) are designed for high-speed data transmission in outdoor environments, with durability for weather, UV, and mechanical stress while supporting indoor/outdoor installations.

Overview

Multimode outdoor fiber optic cables are engineered to transmit data over medium distances using multiple light paths (modes) within the fiber core. Common core sizes include 62.5 μm (OM1) and 50 μm (OM2, OM3, OM4), optimized for wavelengths of 850 nm and 1300 nm. These cables are suitable for applications such as campus backbones, LAN distribution, and inter-building connections .

Construction and Features

- **Loose Tube or Tight Buffered Design:** Loose tube cables, often gel-free and dielectric, protect fibers from environmental stress and allow easy midspan access. Tight-buffered cables provide compact installation for indoor/outdoor use .
- **Durable Jackets:** Outdoor-rated jackets are typically UV, water, chemical, and fungus resistant, with options for plenum (OFNP), riser (OFNR), or direct burial applications .
- **Armored Options:** Some cables include interlocking armor or aramid yarn for rodent resistance and mechanical protection, suitable for aerial, duct, or direct burial installations

Article Content

Fiber Optic Cable Types Explained

Our comprehensive guide to types of fiber optic cables. Learn all about the differences between single mode and multimode cables,

Amazon : Outdoor Fiber Optic Cable

Industrial-grade outdoor fiber optic cables with armor protection. Multiple configurations for long-distance transmission.

How to Choose an Outdoor Fiber Cable

How to Choose an Outdoor Fiber Cable Fiber is routinely installed outdoors thanks to it's effective signal transmission distance and

A Guide to Multimode Fiber Types (OM1-OM5) - trueCABLE

Multimode fiber is also very commonly used in Data Centers. Multimode fiber typically has a 50µm (micron) core that

Armored Fiber Optic Cables

Armored Fiber Optic Cables add an extra level of security to your installation when rodents, moisture, and other common threats to

Outdoor Fiber Optic Cable | Outside Plant Fiber (OSP) Cable

Fiber optic cables for outdoor applications are engineered to withstand the more demanding conditions seen outside, from

Fiber Outside Plant Cables

Fiber Outside Plant Cables CommScope outside plant fiber optic cables are meticulously designed to withstand the rigors of outdoor

Fiber Optic Cable Buying Guide

Fiber Optic Cable Buying Guide Understand how to choose fiber optic cable by comparing single-mode vs. multimode, network

Fiber Optic Cable

Fiber Cable Belden's extensive line of indoor and outdoor cable products is offered in tight buffer and loose tube designs. Armored,

Amazon : Multimode Fiber Cable

Shop durable fiber optic cables with LC, ST, and SC connectors. Perfect for SAN networks, servers, and enterprise installations.

Ultimate Guide to Choosing the Best Outdoor Fiber Optic Cable

Discover the ultimate guide to selecting the best outdoor fiber optic cable for your needs. Explore our range of durable

Fiber Optic Indoor/Outdoor Cables

Our indoor/outdoor cables meet rigorous outdoor environments and can be routed indoors where flame rating applies, eliminating

A Comprehensive Guide to Multimode Fiber Optic Cable

Explore the characteristics, advantages, and practical applications of multimode fiber optic cable in this comprehensive guide. Learn

Indoor Outdoor Fiber Optic Cables

Flexible, easy to install and reliable multi-mode fiber patch cord terminated with duplex ST fiber connectors on both ends.

Contact Us

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