

Article Overview

Indoor OM4 fiber optic cable is a high-bandwidth, laser-optimized 50um multimode fiber designed for indoor network installations, supporting 10G, 40G, and 100G Ethernet over extended distances.

Overview

OM4 is a multimode fiber (MMF) with a 50-micron core diameter, optimized for laser-based transmission, providing an effective modal bandwidth (EMB) of 4700 MHz.km for 10 Gb/s applications and supporting higher-speed 40 Gb/s and 100 Gb/s links over longer distances than OM3 fiber . It was standardized by TIA/EIA in 2009 under the TIA-492AAAD specification . OM4 is widely used in enterprise LANs, data centers, and intra-building backbones where high-speed, high-bandwidth connectivity is required .

Indoor Cable Characteristics

Indoor OM4 cables are designed for safe and reliable use within buildings. Key features include:

- o Plenum-rated jackets for installation in air-handling spaces, meeting NFPA low-smoke requirements .
- o Tight-buffered 900um fibers for easy termination and handling.
- o Aramid yarn strength members for mechanical protection during installation.
- o Durable outer jackets to withstand multi-floor deployments and intra-building backbones . These cables are suitable for headend terminations, fiber rack systems, and multi-floor deployments, providing flexibility for selective fiber use on each floor .

Performance and Applications

OM4 fiber extends the reach of multimode networks compared to OM3:

- o 10 Gb/s Ethernet: up to 550 meters
- o 40 Gb/s Ethernet: up to 150 meters
- o 100 Gb/s Ethernet: up to 100 meters This extended reach allows many installations to avoid the higher cost of singlemode fiber (OS2) while still supporting next-generation high-speed applications . Indoor OM4 cables are ideal for intra-building backbones, data center interconnects, and enterprise LANs where high bandwidth and low latency are critical .

Summary

Indoor OM4 fiber optic cable is a high-performance, multimode solution for indoor network infrastructure, offering laser-optimized bandwidth, plenum-rated safety, and extended reach for 10G-100G Ethernet



Om4 fiber optic indoor cable

applications. It is a cost-effective choice for modern enterprise and data center networks, providing flexibility and reliability for multi-floor and high-density deployments .

Get OM4 multimode fiber optic cables 50/125 with bend insensitive fiber design that support 40G/100G cabling. 100% end-face, 3D

6 Strand Indoor Plenum Rated Multimode 10/40/100 GIG OM4 50/125 Fiber Optic Cable by the Foot with Corning® Glass - Made in

Choosing between OM3 and OM4 fiber optic cables? Discover the differences in bandwidth,

Buy CableWholesale 1000ft Black 6-Strand Fiber Optic Cable OM4 Multimode 50/125, Corning ClearCurve, Plenum Rated,

The optical fibre is made of high pure silica and germanium doped silica. UV curable acrylate material is applied over fibre cladding

OM4 12-Fiber Water-Blocked/Sunlight Resistant Indoor/Outdoor - OFNR Tight Buffer Riser Rated OFNR

ShowMeCables offers a wide variety of indoor/outdoor fiber optic cables. We offer single mode as well as multi-mode (OM1, OM2,

OS2 and OM1-OM4 indoor fiber optic cables, singlemode and multimode, with LC/LC, LC/SC, LC/ST,

How Many Types of Multimode Fiber? Identified by ISO 11801 standard, multimode fiber optic cables can be classified

FD4M024P2 - Indoor/Outdoor Plenum OM4 Mini-Distribution 24 Fibers 3mm Sub-Units Black Jacket FX Indoor/Outdoor, OM4, Mini

SPECIFICATIONS The fibre cable shall contain up to 24 fibres and have an all-dielectric loose tube construction. It shall be suitable

Fiber Indoor/Outdoor Cable, 4-fiber, multimode OM4, Gel-free, aqua jacket color, Dca Flame Rating, Meters jacket marking, 2000

Indoor om4 Distribution Tight Buffer Fiber Optical Cable Number core 6-12core Application & Feature:
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Om4 fiber optic indoor cable

This cable is perfect for headend termination to a fiber backbone, termination of fiber rack systems, multi-floor deployment where

Corning MIC® plenum cables are designed for use in plenum, riser and general

OM4 Indoor/Outdoor Riser Fiber Cable with Corning fiber features 2-24 tight-buffered strands. OFNR rated with UV-resistant jacket

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