

Om3 fiber optic connector



Overview

OM1 vs OM2 vs OM3 vs OM4 vs OM5 Multimode Fiber Guide | EDGE Compare OM1, OM2, OM3, OM4, and OM5 multimode fiber specs, distances, bandwidth, and applications.

Key Takeaways

OM3 connectors are designed for 50 μm multimode fiber optimized for high-speed data transmission up to 10 Gbps over distances up to 300 meters, commonly used in LANs, data centers, and storage networks.

Overview of OM3 Multimode Fiber

OM3 is a laser-optimized multimode fiber (MMF) with a 50 μm core diameter, allowing multiple light modes to propagate simultaneously. It supports high-bandwidth networks with a modal bandwidth of 2000 MHz·km, enabling data transmission at 10 Gbps up to 300 meters and shorter distances for 25G, 40G, and 100G Ethernet applications. OM3 fibers are typically aqua-colored and are compatible with VCSEL-based laser sources operating at 850 nm, providing higher speed and reliability compared to older OM1 or OM2 fibers.

Connector Types and Installation



OM3 fibers can be terminated with various connector types, including LC, SC, ST, and MPO. Field-installable connectors like Corning UniCam® LC connectors allow quick, epoxy-free installation using precision mechanical splice technology, typically completed in 50–60 seconds . These connectors ensure consistent optical performance, reduce human error, and can include keyed LC connectors for network security and simplified identification . MPO connectors are also used for high-density applications, supporting multiple fibers in a single connector assembly .

Performance and Applications

OM3 connectors are widely used in data centers, local area networks (LANs), and storage area networks (SANs) due to their high bandwidth and cost-effectiveness . They are suitable for:

- 10G Ethernet up to 300 meters
- 25G Ethernet up to 70 meters
- 40G/100G Ethernet up to 100 meters OM3 is backward compatible with OM2 fiber but offers better performance and longer reach. For higher bandwidth and longer distances, OM4 fiber may be used, which has a modal bandwidth of 4700 MHz·km and slightly lower attenuation .

Key Advantages

- High-speed support for modern network standards
- Laser-optimized for VCSEL sources
- Cost-effective for short-to-medium distance applications
- Easy installation with field-terminable connectors
- Compatibility with existing multimode infrastructure OM3 connectors remain a popular choice for high-capacity, high-performance network infrastructures where reliable, short-to-medium distance optical transmission is required .

Article Content

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Understanding OM3 Multimode Fiber: Advanced Guide on Fiber Optic

Explore our advanced guide on OM3 multimode fiber optic cables to understand the differences between OM1, OM2,

Multimode Fiber Types: OM1 vs OM2 vs OM3 vs OM4 vs OM5

OM4 fiber is completely backwards compatible with OM3 fiber and shares the same distinctive aqua jacket. OM4 was

Understanding OM3 Multimode Fiber: Advanced Guide

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□□0.2M (7inch), OM3 LC-LC Fiber Optic Patch Cable Multimode 10Gb is designed for high density

CableWholesale 6 Strand Fiber Optic Cable, Multimode,

Maximize your network's performance with our high-quality 1000-foot Multimode 6 Fiber Optic Cable.

ERSTICKT 5M/16FT Outdoor Armored Fiber Patch Cable, LC to LC OM3

The 5m (16ft) LC to LC Outdoor Armored Fiber Optic Patch Cable is built for high-bandwidth transmission in harsh outdoor and

RamboCables-OM3 Multimode Fiber Patch Cables LC

The OM3 fiber optic patch cable is plug and play, and the protective cover of the connector from Germany

OM3 Fiber Optic Cables – Mouser

OM3 Fiber Optic Cables are available at Mouser Electronics. Mouser offers inventory, pricing, & datasheets for OM3 Fiber Optic

Pre-Terminated Fiber Optic Cable Assemblies

Our pre-terminated Fiber Optic Cables offer a plug and play custom fiber solution for seamless installation

OM1, OM2, OM3, and OM4 Fiber Cable

The standard provides detailed guidelines for 40-/100-GbE transmission over OM3 and OM4 multimode cable and single-mode fiber

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OM3 vs OM4 Multimode Fiber: What's the difference?

OM3 fiber and OM4 fiber are both laser-optimized multimode fibers with 50/125µm fiber cores, which need to meet the

OM3 Multimode Fiber Optic Patch Cables for 10G Networks

FS offers OM3 multimode fiber optic patch cables 50/125 with bend insensitive fiber design that is optimal for 10G fiber optic cabling

FLYPROFiber

High-Speed Performance--- The OM3 LC to LC Industrial TPU outdoor fiber optic cable supports up to 100 Gbps bandwidth,

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12 Strand Indoor OM3 Fiber Optic Cable | Fiber By the Foot

12 Strand Indoor Plenum Rated Multimode 10-GIG OM3 50/125 Fiber Optic Cable by the Foot with Corning® Glass - Made in the USA

6 Strand Outdoor OM3 Fiber Optic Cable, 10Gb, Black, 1000ft

1000ft 2000ft Custom Length Product Description This is a black bulk 1000 foot spool of indoor/outdoor rated fiber optic distribution

Fiber Optic Cables | OM1 OM2 OM3 OM4 OS2 | Singlemode Multimode

Shop Fiber Optic Cables OS2, OM1, OM2, OM3 and OM4 in a variety of colors and lengths. High-quality fiber cables for professional

OM3 Indoor/Outdoor Duplex Fiber Patch Cables 50/125 Multimode

OM3 LC ST Indoor/Outdoor Duplex Fiber Optic Patch Cable, 10Gb Multimode 50/125 corning optical fiber cord (10Gb up to 300

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95-050-51-X | UniCam® Connectors ST® compatible, 50 µm

Corning® UniCam® connectors offer high optical performance in a fast, easy field-termination solution—ideal for fiber-to-the

LC OM3 Fast Connector Fiber Optic Manufacturer

The LC OM3 Fast Connector Fiber Optic is designed for quick, reliable, and tool

UniCam® Connectors LC, 50 µm Multimode (OM3/OM4), Black

Corning® UniCam® connectors offer high optical performance in a fast, easy field-termination solution—ideal for fiber-to-the

OM3 Fiber Optic – Mouser

Mouser offers inventory, pricing, & datasheets for OM3 Fiber Optic.

LC, OM3/4 Multi-Mode, Infinium Field Installable Mechanical Splice ...

Includes color coded 900um buffer, boot, cleave protector and extended dust cap for easy fiber identification No epoxy or polishing

OM3 Fiber Optic Cables – Mouser

Mouser offers inventory, pricing, & datasheets for OM3 Fiber Optic Cables.

Fiber Optic Compatibility Guide | OM3 OM4 OM5 OS2, LC vs SC, SFP ...

Learn fiber optic compatibility including OM3 vs OM4 vs OM5, OS2 singlemode, LC vs SC connectors, APC vs UPC, and SFP

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

