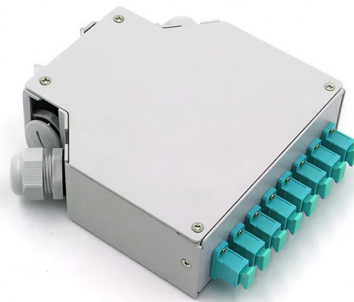


Om3 Class 3 Multimode Fiber



Article Overview

OM3 is a laser-optimized 50 μm multimode fiber designed for high-speed data center and enterprise network applications, supporting 10G Ethernet up to 300 meters and 40/100G Ethernet up to 100 meters.

Key Specifications

- Core Size: 50 μm (micrometers) graded-index core
- Cladding Diameter: 125 μm
- Jacket Color: Aqua, standard for OM3
- Laser Optimization: Designed for 850 nm VCSEL (Vertical-Cavity Surface-Emitting Laser) sources, providing improved performance over legacy LED-based fibers
- Bandwidth: Effective Modal Bandwidth (EMB) of 2000 MHz·km at 850 nm
- Maximum Distances:
 - 10 Gigabit Ethernet (10GbE): up to 300 meters
 - 40/100 Gigabit Ethernet (40/100GbE): up to 100 meters
- Standards Compliance: TIA-492AAAC, ISO/IEC 11801, IEC 60793-2-10

Performance and Applications

OM3 fiber is optimized for short-reach, high-speed applications in data centers and enterprise LANs. Its laser-optimized design reduces differential mode delay (DMD), allowing it to perform similarly to single-mode fiber over short distances while using lower-cost VCSEL transceivers. It is widely deployed for:...

Article Content

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OM1 vs OM2 vs OM3 vs OM4 vs OM5 Multimode Fiber

Understanding The Differences Between OM1 vs OM2 vs OM3 vs OM4 vs OM5 Multimode Fiber By fiberlife. Posted

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What does OS1, OS2, OM1, OM2, OM3 and OM4 mean? | Proterial

ISO/IEC 11801 fiber optic labels: OS for singlemode, OM for multimode. OM1-OM4 & OS1-OS2 vary by performance & material.

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Multimode fiber: OM1 vs OM2 vs OM3 vs OM4

Multimode fiber technology has been developed from OM1 multimode to OM4 which supports 10Gbps now, which will

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ClearCurve® Multimode Fiber | High Data Rate Laser

ClearCurve multimode laser-optimized, bend resilient fibers are widely deployed to deliver high data rate,

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OM1, OM2, OM3, OM4, OM5 Fibers: Key Differences Explained

Compare OM1, OM2, OM3, OM4, and OM5 multimode fibers. Learn bandwidth capabilities, distance limits, and

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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

Sep 13, 2025

OM2, OM3, OM4 vs. OM5 | How to Choose the Right Fiber Optic

The difference between multimode fiber optic cables is important when choosing the right cabling for your network.

Oct 20, 2025

Multimode Fiber Cable Types: OM1/OM2/OM3/OM4/OM5 Compared

According to MarketsandMarkets, the multimode fiber market was valued at \$3.1 billion in 2023, with 62% of

Jan 15, 2026

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

This post provides a introduction to multimode fiber, mainly introduces OM1, OM2, OM3, OM4 and OM5 fibers and

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Multimode Optical Fiber Selection & Specification

All multimode fibers utilizing the above nomenclature should be graded-index MMF and compliant with industry prevailing standards

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

Multimode fiber optic cables are widely used for short-range communication applications. Different generations of

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Multimode Fiber Data Sheet

OM3 Fiber 50/125 This fiber is a laser-optimized, bend-insensitive, graded-index multimode fiber designed for transmission speeds of

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OM1 OM2 OM3 OM4 OM5 Multimode Fibers Explained

Understand the differences between OM1, OM2, OM3, OM4, and OM5 multimode fibers, including bandwidth,

Oct 08, 2025

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

Among the available options, multimode fiber (MMF) plays a critical role in short-distance, high-bandwidth applications.

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Guide to Multimode Fiber: OM1, OM2, OM3, OM4, OM5

These multimode fiber types are available for high-speed network installations, and each with a different reach and

Sep 09, 2025

Difference Between Multimode Fiber Types: OM1 vs OM2 vs OM3 vs

The diameter of the multi-mode fiber is either 50/125 μm or 62.5/125 μm . At present, there are four commonly used OM (multimode)

Mar 25, 2026

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

Multimode fibers OM1 through OM5 offer varying levels of performance, bandwidth, and transmission capabilities.

Jan 17, 2026

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

A complete guide to multimode fiber types: from OM1 to OM5, covering modal dispersion, bandwidth limits, cabling design, and

Aug 13, 2025

Multimode Fiber: OM1 to OM5 - MapYourTech

This comprehensive guide explores the five primary categories of multimode fiber—designated as OM1, OM2, OM3,

Mar 13, 2026

Optical Fiber OM3 (50/125 μm Multimode Fiber)

Datasheet: GD101699v5 850 nm LASER-OPTIMIZED 50/125 MULTIMODE OPTICAL FIBER IEC 60793-2-10 Type A1a.2 and

Contact Us

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