How many meters is the Om3 fiber optic cable

Overview

Fiber Optic Cable OM3 vs. OM4: Speed, Distance, and DifferencesCompare OM3 vs OM4 multimode fiber: modal bandwidth, real-world distances for 10G/40G/100G.

Key Takeaways

OM3 fiber optic cables support maximum distances of up to 300 meters for 10G Ethernet and 400 meters for 40G Ethernet, with a modal bandwidth of 2000 MHz/km. Specifications of OM3 Fiber Optic CableCore Diameter: OM3 fiber has a core diameter of 50 microns. Modal Bandwidth: It has a modal bandwidth of 2000 MHz/km at 850 nm, which allows for high data transmission rates.

Maximum Distances: 10G Ethernet: Up to 300 meters. 25G Ethernet: Up to 70 meters. 40G Ethernet: Up to 150 meters.

100G Ethernet: Up to 100 meters. Comparison with Other Fiber TypesOM4 Fiber: Compared to OM3, OM4 fiber has a higher modal bandwidth of 4700 MHz/km and supports longer distances: 10G Ethernet: Up to 400 meters. 40G Ethernet: Up to 150 meters.

100G Ethernet: Up to 70 meters. OM5 Fiber: The newest standard, OM5, supports short wavelength division multiplexing (SWDM) and has similar bandwidth capabilities as OM4 but is optimized for multiple wavelengths. ApplicationsOM3 fiber is widely used in local area networks (LANs) and data centers due to its ability to support high-speed data transmission over moderate distances.

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It is particularly suitable for applications involving 10G Ethernet and is often used in environments where cost-effective solutions are needed for high data rates. In summary, OM3 fiber optic cables are a reliable choice for high-speed networking applications, providing significant distance capabilities for various Ethernet standards while maintaining cost-effectiveness.

Article Content

Fiber Optic Cable OM3 vs. OM4: Speed, Distance, and Differences

Compare OM3 vs OM4 multimode fiber: modal bandwidth, real-world distances for 10G/40G/100G, cost tradeoffs, compatibility tips, and engineer feedback from Reddit & field tests.

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

Besides, OM3 is able to support 40 Gigabit and 100 Gigabit Ethernet up to 100 meters, however, 10 Gigabit Ethernet is most commonly used. OM4 fiber is completely backwards

Understanding OM3 Multimode Fiber: Advanced Guide on Fiber Optic

Multimode fibers like OM3 are designed for high-bandwidth networks that can support speeds of up to 10 gigabits per second (Gbps) or more over distances of up to 300 meters.

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

Q1: What is the maximum distance for OM3 and OM4 multimode fiber at 10G and 40G Ethernet? OM3 (2000 MHz·km @ 850nm) supports 10G up to 300m and 40G SR4 up to 100m.

What is OM3 Fiber? A Simple Guide to High-Speed Internet Cables

OM3 fiber optic cable can easily handle 10 Gbps (gigabits per second) for up to 300 meters. To put that in perspective, that speed is hundreds of times faster than the average home

OM3 Multimode Cables

OM3 Multimode Cables are high-performance optical fiber cables with a 50µm core, supporting up to 300 meters at 10 Gbps and 100 meters at 40 Gbps, OM3 cables operate efficiently at 850 nm

What is OM3 Multimode Fiber?

OM3 fiber optic cable has an effective data transmission distance of up to 300 meters at 10 Gbps speeds, making it ideal for mid-range applications.

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OM3 Vs OM4 Fiber: Which "Aqua" Cable Do You Need?(2026 Guide)

Confused by Aqua cables? We break down the real limits of OM3 vs OM4 (300m vs 550m). Learn when to save money with OM3 and when you MUST upgrade to OM4 for 100G.

OM3 Multimode Fiber Cable: The Ultimate Guide for 10G Networks

The bandwidth specification and OM3 cables cover a range extending up to 2000MHz km, permitting the cables to carry 10 Gigabit Ethernet over a range of 300 meters, making them

Fiber Optic Cable Types Explained

OM3 multimode fiber optic cables have a core diameter of 50 microns, which allows them to transmit data over distances of up to 1000 meters at a speed of 10 gigabits per second (Gbps), and up to 400

Cost of Fiber Optic Cable: Pricing Guide (2026)

Discover the cost of fiber optic cable in this pricing guide. Learn material prices, installation factors, and what impacts total project costs overall.

5 Best Fiber Optic Cable For Internet | 30M Armored Fiber: Speed

Multimode OM3 or OM4 fiber (50/125µm) is designed for short data-center links and won''t perform correctly with single-mode SFP optics. OS2 supports 10Gbps over kilometers; OM3 tops out at 300

TLC Indoor/Outdoor Fiber Optic Cable with Aluminum Interlocking Armor

OverviewThis 24-fiber indoor/outdoor cable utilizes 50/125µm OM3 ClearCurve multimode fiber and is encased in an aluminum interlocking armor layer. It is designed with a plenum-rated black jacket

Everything You Need to Know About Multimode Fiber Cable

Explore multimode fiber optic cables for enterprise, campus, and data center networks. Learn about OM1–OM5 types, transmission ranges, installation tips, and cost-effective high-speed

Single Mode vs. Multimode Fiber Optic Cables

There are two main types of fiber optic cables: single mode and multimode. Although they can do the same job in some instances, the different construction methods make each of them better

What Damages Fiber-Optic Cables? Key Risks and Mitigation Strategies

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Fiber-optic cables are a significant investment—with costs ranging from $2–$5 per meter for indoor cables to $10–$20 per meter for submarine cables. Protecting this investment requires

YOFC ICONEC 95M MPO/MTP Trunk OM3 Fiber Optic Cable 95 meters

Buy YOFC ICONEC 95M MPO/MTP Trunk OM3 Fiber Optic Cable 95 meters in Paranaque City,Philippines. Inonec MPO/MTP FF Pre-Terminated MM OM3 8-Fiber Trunk Type B 95m - Brand:

How Far Can Multimode Fiber Optic Cables Transmit?

As an industry-leading provider of fiber optic solutions, we offer a wide range of multimode fiber cables, including but not limited to OM1, OM2,

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

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