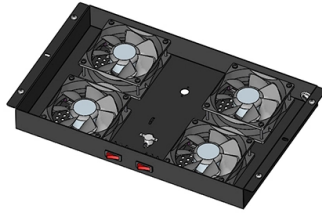


Russian long-distance optical cable OM4



Overview

OM4 was developed specifically for VCSEL laser transmission and allows 10 Gigabits/second link distances of up to 550 Meters (compared to 300 Meters with OM3). The effective modal bandwidth for OM4 is more than double that of OM3 (4700 MHz). In the complex landscape of fiber optic infrastructure, selecting the right cable type—single-mode (OS1/OS2) or multimode (OM1/OM2/OM3/OM4/OM5)—can define a network's speed, reach, and cost-effectiveness. This guide dissects their technical nuances, evolution, and real-world applications. OM4 fiber is a high-performance multimode optical fiber designed for fast data transmission in applications like data centers and local area networks. However, it can also be used for 25G Ethernet connections up to 70 meters long and 40G/100G Ethernet connections up to 100 meters long.



Article Content

Aug 22, 2025

What You Need to Know About OM4 Fiber Optic Cables

In the world of data communications, OM4 fiber optic cables have become a key ingredient for high-speed network applications. These cables are

Feb 15, 2026

Product Spec Sheet 072TUK-T4691DFN

072TUK-T4691DFN Corning LSZHTM and Riser-rated industrial rodent-resistant cables are designed for industrial building backbones and harsh environments atypical of traditional

Sep 29, 2025

What are the differences in fiber optic cables (OM1, OM2, OM3 and OM4 ...

What are the differences between fiber optic cables (OM1, OM2, OM3 and OM4). Learn about the key differences between optical fiber standards OM1, OM2, OM3, OM4 and OM5. Understand the

Dec 23, 2025

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

Table of Contents In modern Ethernet networks, choosing the right multimode fiber optic cable can significantly impact bandwidth, scalability, and long-term infrastructure costs. Two of the

Dec 18, 2025

Understanding Fiber Cable Types: OM1 vs OM2 vs

Choosing between OM3 and OM4 fiber optic cables? Discover the differences in bandwidth, cable lengths, and costs so you can make an informed

Jul 09, 2026

OM4 Multi Mode Fiber Optic Cables |

OM4 MULTI MODE FIBER OPTIC CABLES We offer worldwide delivery for our OM4 Fiber Cable solutions, ensuring your projects are supported by ultra-high-speed and reliable connectivity. Fiber4u

Dec 03, 2025

OM3 And OM4 Fiber Cable for 10G/40G/100G Network

The minimum OM3 and OM4 fiber cable bandwidth at 850nm: OM3 2000 MHz·km; OM4 4700 MHz· km. The higher bandwidth available in OM4 means a smaller

Nov 03, 2025

Differences between OS1, OS2, & OM1, OM2, OM3,

While OM3 fiber will still be future proof in most applications, allowing speeds of 10Gb/s up to 100Gb/s, OM4 fiber offers users longer length distances

Jul 30, 2025

TN_OM3, OM4, OM5 Distance and Speeds

Introduction OM3, OM4, and OM5 are types of multi-mode optical fibres commonly used in data centres and enterprise environments to support various network speeds and transmission distances,

Jun 06, 2026

Different Fiber Optic Cable and supported distance

What are the differences between OM1, OM2, OM3, OM4, and OM5 fiber optic cables, and what are their supported distances for different Fiber Channel speeds?

Nov 30, 2025

What is OM4 Fiber?

OM4 fiber supports Ethernet, Fibre Channel, and OIF applications, allowing extended reach upwards of 550 meters at 10 Gb/s for ultra long building

Feb 14, 2026

How Far Can OM4 Multimode Fiber Transmit? | TTI Fiber

At 10 Gbps, OM4 can transmit up to 550 meters. At 40 Gbps, it can cover around 150 meters. At 100 Gbps, OM4 works reliably up to 100 meters. This makes OM4 ideal for large-scale

Sep 04, 2025

OM4 Optical Fiber Cabling Guide | Cablek

It is important to note that OM4 glass is not necessarily designed to be a replacement for OM3. Despite the relatively long-standing availability of OM4, there are no plans to obsolete OM3 fiber optic

May 25, 2026

Multimode Fiber Optic Cable Types: OM1 vs OM2 vs

Multimode fiber optic cable types OM1, OM2, OM3, OM4 and OM5 compared for core size, bandwidth, speed, distance & applications in modern

Dec 21, 2025

OS1, OS2 vs OM1-OM5 Fiber Cables: Differences, Speeds, and

Explore the differences between OS1, OS2 (single-mode) and OM1, OM2, OM3, OM4, OM5 (multimode) fibers. Learn their speeds, distances, and ideal uses for data centers and telecom

Oct 29, 2025

What are the differences between OM3 and OM4 patch

OM3 cables are suitable for most high-speed networking applications within a building or campus environment, while OM4 cables offer

Oct 21, 2025

OM3 vs OM4: Key Differences and Practical Applications

Discover OM3 vs OM4 differences and their practical uses. Enhance your understanding of fiber optic cabling with our informative guide.

Nov 15, 2025

OM3 And OM4 Fiber Cable for 10G/40G/100G Network

As an advancement of OM3 fiber, OM4 fiber is chiefly used for 10G, 40G and 100G Ethernet. Both OM3 and OM4 fibers support 40 Gb/s and 100 Gb/s speeds

Mar 04, 2026

OM4 Multimode Fiber FAQ: High-Speed Connectivity

While OM4 fiber is optimized for short-distance applications, its performance is excellent for distances commonly found in data centers. For

Jul 09, 2026

OM4 Fiber Optic Cable

OM4 fiber optic cable is mainly used for 10G, 40G and 100G Ethernet, is the optimized version of OM3 fiber optic cable, so all aspects of performance than

Jul 16, 2026

Russia Forced to Rely on Chinese Optical Fiber

Russia's only domestic producer of optical fiber has been offline since May 2025 following Ukrainian attacks, industry officials told the Vedomosti

Jun 03, 2026

Difference Between Multimode Fiber Types: OM1 vs

Insight - LightOptics Difference Between Multimode Fiber Types: OM1 vs OM2 vs OM3 vs OM4 vs OM5 Multimode fiber is a common choice to achieve 10 Gbit/s

Jan 09, 2026

Multimode fiber: OM1 vs OM2 vs OM3 vs OM4

In 10 Gb/s Ethernet using 850 nm VCSEL, the fiber transmission distance can reach 300 m. OM4 is an upgraded version of OM3 multimode

Nov 07, 2025

Multimode Fiber Types: OM1 vs OM2 vs OM3 vs OM4

OM4 improves on OM3 with significantly higher bandwidth. It supports longer distances at high speeds, making it the mainstream standard for

Oct 24, 2025

Multimode Fiber Types: OM1 vs OM2 vs OM3 vs OM4

How Many Types of Multimode Fiber? Identified by ISO 11801 standard, multimode fiber optic cables can be classified into OM1 fiber, OM2

Sep 02, 2025

Multimode Fiber OM1 vs OM2 vs OM3 vs OM4 vs OM5

Identified by ISO 11801 standard, multimode fiber optic cables can be classified into OM1 fiber, OM2 fiber, OM3 fiber, OM4 fiber and newly released

Jan 07, 2026

OM1 vs OM2 vs OM3 vs OM4 vs OM5 Multimode Fiber

Compare OM1, OM2, OM3, OM4, and OM5 multimode fiber specs, distances, bandwidth, and applications. Essential guide for data center fiber

Jan 01, 2026

Microsoft Word

Panduit® OM4 Fiber extends the system cost benefits of Panduit® OM3 Fibers to ultra long building backbones and medium length campus backbones. The patented MCVD fiber manufacturing

Apr 02, 2026

OM3 vs. OM4: Which to Choose? - VCELINK

OM3 and OM4 are commonly used in data centers and WDM applications, but they have different speeds, bandwidth, transmission distance, and cost.

Dec 08, 2025

OM4 Optical Fiber Cabling Guide | Cablek

The primary benefit that OM4 provides is additional reach at extended bandwidth at an overall cost still less than that of an OS2 singlemode system. In other words, OM4 provides a solution that allows

Feb 26, 2026

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

When comparing fiber optic cable OM3 vs. OM4, the most important technical differences relate to modal bandwidth, supported Ethernet speeds, and maximum transmission distance.

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://khanimamboguesthouse.co.za>

Email: sales@khanimamboguesthouse.co.za

Phone: +27 64 852 1973

Address: Unit 7, Greenway Business Park, 8 Innovation Drive, Centurion, 0157, South Africa

This document is for informational purposes only. Specifications subject to change without notice.

