ZITHA TECH SPECIALTY CABLES (Pty) Ltd

Fiber optic standard om4



Overview

OM4 is a new designation, currently used by TIA, but not yet adopted by ISO, that identifies enhanced 50 micron glass capable of 10 gigabit Ethernet out to 550 meters. OS1 applies to standard singlemode glass while OS2 refers to a higher performing, low-water peak singlemode glass. To recap Optical Fiber can be divided into Multimode Fiber (MMF) and Single-Mode optical fiber (SMF). Multimode Fiber (MMF) has a core diameter, typically 50–100 micrometers, has ability to transfer multiple modes of light through the fiber core, uses lower-cost electronics (LED, VCSEL) operates at. Multimode fiber (MMF) is a kind of optical fiber mostly used in communication over short distances, for example, inside a building or for the campus. Multimode fiber optic cable has a larger core, typically 50 or 62. Because of this, more. This guide explains the five generations of multimode fiber - OM1, OM2, OM3, OM4, and OM5 - covering their physical characteristics, color coding, bandwidth, maximum distances at different data rates, optical sources (LED, VCSEL, SWDM), and real-world applications in enterprise networks and data. Multimode fiber is a staple of fiber-optic cable infrastructure in data centers and campus networks. The ISO/IEC 11801 standard defines five classes of multimode fiber: OM1, OM2, OM3, OM4 and OM5.

© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved

Article Content

What does OS1, OS2, OM1, OM2, OM3 and OM4

OM4 is a new designation, currently used by TIA, but not yet adopted by ISO, that identifies enhanced 50 micron glass capable of 10 gigabit Ethernet out to 550

10 Best Fiber Optic Manufacturers for 2026

Discover the best fiber optic manufacturers globally, offering cutting-edge multimode and single mode fiber solutions. See who tops the list for quality

OM4 multimode fiber optic cable MMF duplex 50µm/125µm LC/PC

50cm length OM4 multimode (MMF) duplex fiber optic cable, 50µm/125µm LC/PC-SC/PC. OM4 optical fiber is laser-optimized, with high bandwidth, a 50µm core diameter, and a 125µm cladding diameter.

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.

Fiber Optic Cable by the Foot

We offer fiber optic cable by the foot in a variety of fiber types and strand counts to meet your network installation needs. Whether you''re building a new system or

StarTech OM4RLCLC50M LC to LC (UPC) OM4

This OM4 LC to LC Multimode Duplex Fiber Optic Patch cable delivers reliable connectivity across 40 and 100 Gigabit networks. The TIA-standard Erika Violet

Fiber Optic Patch Cables: The Complete 2026 Buyer''s Guide

Confused by LC, SC, MPO, UPC, and APC? This complete fiber optic patch cable guide covers connector types, single-mode vs multimode, insertion loss specs, and how to choose the right

How Much Does Fiber Optic Cable Cost? 2025 Factory

Searching for how much does fiber optic cable costs? Stop guessing. We break down 2025 prices for OS2, OM3, and Armored cables directly from the Wolontek

OM4 MPO/MTP Fiber Optic Adapter for High-Density Networks

High-performance OM4 MPO/MTP fiber optic adapter with low insertion loss (≤0.35dB), durable design (≥500 cycles), and multi-fiber support (8-72 cores). Ideal for data centers, LAN, and telecom

© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved

Fiber Optic Cables

Add StarTech 450FBLCLC20 Fiber Optic Cable, Multimode Duplex 50/12um, OM4, LC/UPC to LC/UPC, 20m (65ft) StarTech 450FBLCLC20 Fiber Optic Cable, Multimode Duplex 50/12um,

Fiber Optic Interconnects, Patch Cords & Pigtails

Our LC duplex zipcord fiber optic patch cord offers reliable, high-speed connections for voice, data, or video in data centers, offices, and telecom rooms, with fire-retardant options.

Tripp Lite N846D-01M-16BMG MMF, Fiber Optic, Cable, 400G, OM4,

400 GbE Cable Supports Higher Bandwidths Needed for Next-Gen Data and Voice Networking As the amount of traffic in data networks grows, so does the need for next-generation devices and fiber

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

Contact Us

Continue your research online:

Website: https://zithatech.co.za
Technical inquiry: https://zithatech.co.za/contact.html

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

© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved