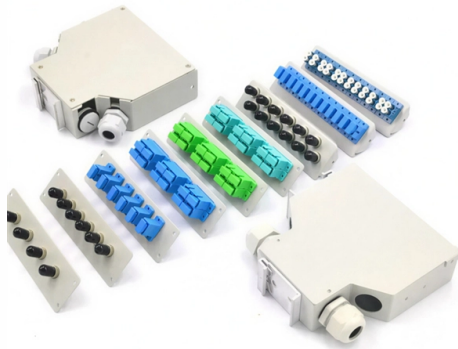


OM4 hybrid fiber optic cable



AI Overview

OM4 hybrid fiber optic cables combine high-performance OM4 multimode fiber with additional functionalities, such as copper conductors for power delivery, enabling high-speed data transmission and remote power in a single cable.

OM4 Multimode Fiber Overview

OM4 is a high-bandwidth multimode fiber standardized in 2009, designed for short-range, high-speed data networks. It has a modal bandwidth of 4700 MHz·km, significantly higher than OM3 (2000 MHz·km), allowing longer transmission distances and higher data rates. OM4 supports:

- 10G Ethernet up to 400 meters
 - 25G Ethernet up to 100 meters
 - 40G Ethernet up to 150 meters
 - 100G Ethernet up to 100 meters
- OM4 fiber also features lower attenuation (3.0 dB/km) compared to OM3 (3.5 dB/km), improving signal quality over longer runs. It is widely used in data centers, enterprise LANs, and high-speed backbone networks.

Hybrid Cable Concept

A hybrid fiber optic cable integrates OM4 fiber with copper conductors in a single jacket. This design allows the cable to:

- Transmit high-speed data over fiber
- Deliver DC power to remote devices, such as cameras, access points, or sensors...

Article Content

Jan 10, 2026

FS Community

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

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Multimode OM4 Hybrid Fiber Optic Asembly

A revolutionary designed fiber optic cable that provides a perfect solution for your fiber optic installs and usage. Instead of a

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Hybrid Cables

CommScope bundles hybrid cabling to your custom specifications, using our high-performance fiber-optic, unshielded twisted pair

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Understanding Fiber Cable Types: OM1 vs OM2 vs

Choosing between OM3 and OM4 fiber optic cables? Discover the differences in bandwidth,

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Fiber Optic Cables

Our optical cables come in single-mode 9/125 and bend-insensitive, as well as the multimode OM1, OM2, OM3, OM4, and OM5

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OM4 Multi Mode Fiber Optic Cables

With a core diameter of 50/125 μm , OM4 fiber cables support data transmission speeds of 10 Gbps over distances of up to 400

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OM4 Multi Mode Fiber Optic Cables |

OM4 multi-mode fiber optic cables for advanced network solutions. 20 years of expertise and global delivery by Fiber4u.

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EDGE™ Hybrid Trunk | Corning

EDGE™ Hybrid Trunk E-mail Product Family Specification Fibre Count 12 24 48 72 96
144 Fibre Category 50 µm MM (OM3) 50 µm

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

Introduction Fiber optic cables are the backbone of modern telecommunications infrastructure, enabling high-speed

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OM4 Multimode Fibre Optic Patch Leads for 40G/100G

FS offers OM4 multimode fibre patch leads & cables 50/125 with bend insensitive fibre design that support

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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

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

One big difference between OM3 and OM4 multimode cable is that OM4 provides a higher modal bandwidth 4700

Oct 15, 2025

Multimode OM4 Fiber Patch Cables

Multimode OM4 Fiber Patch Cables Introducing our 50/125µ multimode Corning® glass OM4 fiber patch

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Multimode Fiber Types: 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,

Jan 13, 2026

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

Dec 25, 2025

TR33 OM4

Panduit® OM4 Fiber extends the system cost benefits of Panduit® OM3 Fibers to ultra long building backbones and medium length

Apr 08, 2026

Multimode Fiber Optic Cable Types: OM1 vs OM2 vs OM3 vs OM4 vs

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

Mar 25, 2026

HD4B0020214FB

Indoor/Outdoor Armored Hybrid Copper-Fiber Cable, OM4, 2 Breakout Fibers, 2.0mm Sub-units, #14-2c,

Feb 13, 2026

Fiber Optic Cable

For each product design, items for OM1, OM3, OM4, OM5, and OS2 (Singlemode) items have been developed. Belden fiber

Nov 15, 2025

DuetConnect™ Hybrid Cable

DuetConnect Hybrid Copper-Fiber Cables allow one cable to offer the advantages of DC power and fiber,

May 08, 2026

TR33 OM4

When deployed in loss-optimized QuickNet™ cabling systems, Panduit® OM4 Fiber can provide extended reach beyond the rated

Aug 27, 2025

Hybrid Cables for Powered Fiber Cable Systems

CommScope offers Hybrid Cables for its hybrid fiber/copper powered fiber cable solution

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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

Sep 22, 2025

OM4 Multimode Fiber FAQ: High-Speed Connectivity Guide

OM4 (Optical Multimode 4) is a type of multimode fiber optic cable that is designed to support higher data rates and

Jun 22, 2026

OM4 Multimode Fiber Optic Patch Cables

Shop OM4 multimode fiber optic patch cables for high-speed data connectivity.
Durable, reliable, and ideal for networking needs.

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OM4 Multimode Fiber Optic Cables for 40G/100G Networks

Get OM4 multimode fiber optic cables 50/125 with bend insensitive fiber design that support 40G/100G cabling. 100% end-face, 3D

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OS1 vs OS2, OM3 vs OM4 vs OM5 – Fiber Optic Cable Differences

Discover the key differences between OS1 and OS2 singlemode fibers, and OM3, OM4, OM5 multimode cables. Learn

Contact Us

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