

Color of Indoor Multimode Optical Cable



AI Overview

Indoor multimode fiber cables are color-coded to indicate their type: OM1 and OM2 are orange, OM3 and OM4 are aqua (sometimes violet for OM4), and OM5 is lime green.

Standard Indoor Multimode Fiber Colors

OM1 (62.5/125 μm): Typically has an orange jacket and is considered legacy fiber, suitable for lower-speed applications like 100 Mb/s Ethernet over short distances (up to 33 meters).

OM2 (50/125 μm): Also uses an orange jacket, supports up to 10 Gb/s Ethernet over short distances (up to 82 meters), and is largely considered legacy.

OM3 (50/125 μm , laser-optimized): Uses an aqua jacket, designed for high-speed networks (10, 40, 100 Gb/s) over short distances, typically up to 300 meters at 10 Gb/s.

OM4 (50/125 μm , laser-optimized): Usually aqua, but some manufacturers use Erika violet to differentiate higher bandwidth performance (up to 400 meters at 10 Gb/s).

OM5 (50/125 μm , wideband multimode): Uses a lime green jacket, designed for Shortwave Wavelength Division Multiplexing (SWDM) to support multiple wavelengths on a single fiber, enabling 100 Gb/s and beyond.

Single-Mode Fiber for Comparison

OS1/OS2: Always yellow, used for indoor (OS1) or outdoor/long-haul (OS2) applications.

Notes on Indoor Applications

Indoor multimode cables are often tight-buffered and color-coded according to ANSI/TIA-598-D standards for easy identification. While OM3 and OM4 both use aqua, the printed markings on the cable are important to confirm the exact type, especially when violet is used for OM4. OM5 is backward compatible with OM4 but is specifically optimized for SWDM applications, making its lime green color a clear visual indicator for future-proof installations.

Summary

For indoor multimode fiber installations, the color of the cable jacket provides a quick visual cue for the fiber type and its performance capabilities: orange for OM1/OM2, aqua (or violet) for OM3/OM4, and lime green for OM5. Always verify the printed markings to ensure correct fiber selection for your network requirements.

Article Content

Fiber Optic Cable

Fiber Cable Belden's extensive line of indoor and outdoor cable products is offered in tight buffer and loose tube designs. Armored, burial, and ruggedized designs

SeaMAX MM-PC-LC/SC-2-D-OM3, Optical cord, 2m, duplex, 2.0mm,

The SeaMAX MM-PC-LC/SC-2-D-OM3 Fiber Optic Patch Cord is a high-performance duplex multimode fiber optic cable designed for reliable optical connectivity in data centers, enterprise networks,

All Kinds of Fiber Optic Patch Cords – SC, LC, FC, ST

These special fiber optic patch cords are duplex multimode patch cables with a small length of single-mode fiber at the start of the transmission

The Ultimate Fiber Optic Cable Size Reference Chart

Using a fiber size chart simplifies cable selection and ensures compliance with industry standards (TIA, ISO, ITU-T). Why Fiber Optic Size

Fiber Color Code Guide: TIA-598 Standard Explained

Understand the TIA-598 fiber color code system for jackets, fibers, and connectors. Learn color meanings for single-mode and multimode optical cables.

Fiber Optic Cable Color Code: Complete Installation

Do indoor and outdoor cables use different color standards? Yes, the TIA-598-C standard specifies different color schemes for indoor premises cable

Fiber Optic Patch Cables: The Complete 2026 Buyer's

Confused by LC, SC, MPO, UPC, and APC? This complete fiber optic patch cable guide covers connector types, single-mode vs multimode,

Fiber Optic Color Code: The Ultimate TIA-598-C Guide

Master the TIA-598-C fiber optic color code standard. Read our complete guide and use our free interactive calculator to easily identify 1-144 core cables.

A Guide to Multimode Fiber Types (OM1-OM5) –

What are the fiber optic jacket colors for OM1-OM5? OM1 and OM2 share the same color, which is Orange.

Go4Fiber Ltd-One Stop Fiber Optic Superstore

Indoor Cable Distribution Cable Indoor FTTx Cable Indoor/ Outdoor Cable Ribbon Cable Outdoor Cable Loose tube standing cable, LSZH (GTMEDCCWZ) Loose Tube Armour Cable (GTMESP) Loose

LC Fiber Patch Cables | Singlemode & Multimode with

LC Fiber Patch Cables | LC Singlemode & Multimode Fiber Cable | Duplex LC Fiber Patch Cables In-Stock | Duplex LC OM1, OM2, OM3, OM4 & OS2 Fibre Network

TLC 72 Fiber MM 50um OM3 Micro Distribution Fiber Optic Cable

OverviewThe TLC 72 Fiber Multimode 50um OM3 Micro Distribution Fiber Optic Cable is engineered for high-density indoor environments where space optimization is critical. Designed for data centers and

Product Spec Sheet 004T8P-31190-A3

Note: This cable is available in 12 different jacket colors – blue, orange, green, brown, slate, white, red, black, yellow, violet, rose and aqua. The colored jacket allows for easy visual

TLC Indoor/Outdoor Fiber Optic Cable with Aluminum Interlocking

This TLC indoor/outdoor distribution cable features 24 multimode 62.5/125um fibers protected by aluminum interlocking armor. Designed for versatility, this cable is suitable for both internal and

Fiber Optic Cable Colors Explained: Yellow, Orange, Aqua, Green,

In many cases, the cable jacket color tells an engineer what type of fiber is inside, what wavelength it supports, or whether the cable is intended for single-mode or multimode applications.

Guide to Indoor Fiber Optic Cable Color Coding

OM3 and OM4 cables are for multimode use. These are generally in an Aqua color making them fairly hard to tell apart from afar. Usually, you will see “OM3” or “OM4” printed on the cable. As

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 Color Code Guide: Latest EIA/TIA-598 Standard

Learn the latest EIA/TIA-598 fiber color codes for jackets, inner fibers, and connectors. A complete guide for accurate fiber identification.

Primus Cable | Home Page

Primus Cable Is Your One-Stop-Shop For Low Voltage Cable And Accessories. We Offer End-To-End Solutions And Unbeatable Prices On Premium Networking

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

Understanding Indoor Fiber Optic Cable Color Schemes

Indoor fiber optic cable color codes explained. Understand jacket color schemes for easy identification.

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

FREEDM® One Tight-Buffered, Interlocking Armored Cable, Plenum

Note: This cable is available in 12 different jacket colors – blue, orange, green, brown, slate, white, red, black, yellow, violet, rose and aqua. The colored jacket allows for easy visual identification of the

Armored Fiber Optic Cables

Armored Fiber Optic Cables add an extra level of security to your installation when rodents, moisture, and other common threats to your network are a concern. A

Recognizing Multimode Fiber Types by Color

However, there are some non-standardized colors and inconsistencies that you should be aware of. Let's take a closer look at the colors for multimode fiber types.

Fiber Optic Color Code Explained: Jacket, Connector

Understand fiber optic color codes with this complete guide. Learn about jacket colors, buffer color standards, connector IDs, and practical visuals.

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