

Multimode fiber optic cable markings



Article Overview

Multimode fiber optic cables are marked using standardized color codes, printed fiber counts, fiber types (OM1-OM5), and jacket specifications to ensure proper identification and compliance with TIA/EIA-598-C standards.

Fiber Color Coding

Multimode fibers follow the TIA/EIA-598-C color code, which assigns a specific color to each fiber within a cable. The standard 12-color sequence is: Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua. For cables with more than 12 fibers, the sequence repeats, often with additional markings such as stripes to maintain unique identification for each fiber. High-density cables may use a tube-and-fiber system, where the 12-color sequence is applied to each buffer tube, and fibers inside the tube are also color-coded. For example, fiber #34 in a 48-fiber cable could be the 10th fiber (Violet) in the 3rd tube (Green) to ensure precise identification.

Jacket Color and Fiber Type

The outer jacket color provides a quick visual cue for the fiber type:

- OM1: Orange jacket, 62.5/125 μm core
 - OM2: Orange jacket, 50/125 μm core
 - OM3: Aqua jacket, 50/125 μm , laser-optimized
 - OM4: Aqua jacket, 50/125 μm , enhanced laser-optimized
 - OM5: Lime green jacket, 50/125 μm , wideband multimode fiber (WBMMF) for SWDM applications
- The fiber type (OM1-OM5) is usually printed on the jacket for confirmat...

Article Content

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

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

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Recognizing Multimode Fiber Types by Color

OM2 OM2 is 50 micron fiber, which provides a much better modal bandwidth than OM1, 500 MHz.km @ 850 nm. The industry

Mar 19, 2026

Understanding the Printing on Fiber Optic Cable Patch Cord

This blog will help you understand what the printing on Fiber Optic Cable Patch Cord. It allows you to quickly grasp the

Mar 03, 2026

Fiber Optic Color Code: Comprehensive Guide | BradyID

Fiber optic cables are thin, flexible strands of glass or plastic used in telecommunications, data transmission and other applications

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Fiber Optic Cable Jackets and What They Identify

Fiber optic cable jacket colors can make it fast and simple to recognize exactly which type of cable you are dealing with. For

Dec 30, 2025

ANSI/TIA-598-C Color Code and Cable Markings for Fiber Optic Cabling

Here, we'll break down the fiber color codes, cable markings, and how they apply to fiber optic installations, helping

Jan 27, 2026

Fiber Optic Color Code: The Ultimate TIA-598-C Guide (2026)

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

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Fiber Optic Cable Types: Comprehensive Guide

Explore the different types of fiber optic cables and understand which type suits your specific needs for speed, distance,

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Fiber Optic Cable Types – Multimode and Single Mode

Application Fiber Optic connectors and cables are present in nearly every communications project that we might sell into, be it a DAS

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Understanding Fiber Optic Color Codes: A Simple Guide

Fiber optic cable color codes are an industry standard meant to identify each fiber within a fiber optic cable or specify

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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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The Ultimate Guide to Fiber Color Code – VCELINK

Single-mode and multimode fiber optic cables generally feature different colors. The most common color codes are

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OM1 vs OM2 vs OM3 vs OM4 vs OM5 Multimode Fiber Guide | EDGE Optical ...

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

Jul 24, 2026

What does OS1, OS2, OM1, OM2, OM3 and OM4 mean? | Proterial Cable ...

ISO/IEC 11801 fiber optic labels: OS for singlemode, OM for multimode. OM1-OM4 & OS1-OS2 vary by performance & material.

Aug 29, 2025

Fiber Optic Cable Color Code: Complete Installation and Identification ...

This comprehensive guide covers the complete TIA-598-C color coding standards, including fiber optic cable jackets

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How to Tell if Fiber is Multimode or Singlemode: A Comprehensive

How can I quickly tell if a fiber optic cable is multimode or singlemode without pulling it out of the wall? The fastest way

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ANSI/TIA-598-C Color Code and Cable Markings for Fiber Optic Cabling

Conclusion The ANSI/TIA-598-C color code and cable markings system is a standardized method for organizing,

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Multi-mode optical fiber

Multi-mode optical fiber is a type of optical fiber mostly used for communication over short distances, such as within a building or on a

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Fiber Color Code Guide | Fiber Optic Cable Color Coding Standards

A fiber optic color code is a standardized system of colors used to identify individual fibers, tubes, and jackets within a

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How to interpret multimode multicore fiber optic cable markings

These markings and color codes help ensure the accurate identification of individual fibers within cables, making installation,

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Fiber Optic Cable Color Codes

Color codes are used in fiber optics to identify fibers, cables and connectors. In the photos above, on the

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

Since the earliest days of fiber optics, multimode cables have typically been color-coded orange, black, or

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Color Arrangement Rules For Optical Fiber

For large fiber counts, tubes or fibers may also have additional markings, such as stripes or rings, to avoid confusion.

Contact Us

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