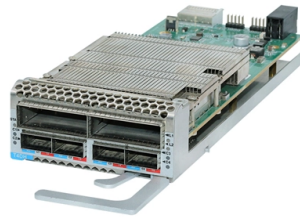


What colors are available for multimode optical fibers



Overview

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.

Key Takeaways

Multimode optical fiber is typically color-coded with orange, aqua, or lime jackets, depending on the fiber type and performance level. Multimode fibers are distinguished from single-mode fibers primarily by their jacket color. OM1 and OM2 fibers usually have orange jackets, with OM1 having a 62.

5 μm core and OM2 a 50 μm core, both commonly using LED light sources for short-distance communication. OM3 and OM4 fibers, which are laser-optimized for higher data rates, typically use aqua-colored jackets. Some manufacturers also use violet to differentiate OM4 from OM3 in high-density data centers.

The newest OM5 fiber is often lime-colored, supporting wideband multimode applications while remaining backward compatible with OM4. These color codes help technicians quickly identify fiber types and ensure proper network installation, as using the wrong fiber type can affect performance and data transmission reliability. While these are standard colors, some legacy or vendor-specific variations may exist, so checking printed markings on the cable is recommended for precise identification.



Article Content

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, OM4 fiber and newly released OM5 fiber. The next part will compare

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

Learn what fiber optic cable colors mean. yellow single-mode fiber, orange multimode fiber, aqua OM3/OM4, OM5, UPC, and APC connector colors.

Multi-mode optical fiber

The standard TIA-598C recommends, for non-military applications, the use of a yellow jacket for single-mode fiber, and orange or aqua for multi-mode fiber, depending on type. Some vendors use violet

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 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 identify 1-144 core cables.

Fiber Color Code: Basic Guide

Single mode fibers use yellow outer jacket, while multimode optical fibers use orange, aqua, violet, lime green to help quickly identify different types of multimode fibers.

Single mode vs multimode fiber color codes explained

By the end of this article, you will gain a clearer understanding of the color codes, the significance of those colors, and the practical differences between single mode and multimode fibers.

Multimode Fibers – optical glass fiber, large-core fibers,

While standard multimode fibers have a circular core, fibers with non-circular core cross-sections — such as square, rectangular, hexagonal, or octagonal shapes

Fiber Optic Pigtailes: Uses & Differences from Patch Cords

Understand fiber optic pigtailes — definition, types, and how they differ from patch cords. Learn why pigtailes ensure reliable, low-loss fiber terminations.

TAA Compliant Fiber Patch Cable LC-LC MM 50/125

TAA Compliant Fiber Patch Cable, LC-LC, UPC, Multimode 50/125 Micron OM4, Duplex, 1.8mm OFNR Rated and available today at Cables Plus USA.

Fiber Optic Pigtail: The Complete Guide to Types,

Confused about fiber optic pigtailes—which connector type, which polish, fusion or mechanical splice? Our guide covers LC vs SC, APC vs UPC,

The Fiber Optic Association

Other groups may have fiber optic standards also: ANSI is the governing bodies for standards in the US, NIST provides primary standards, IEEE has standards for networks like Ethernet, IWCS has

Tight Buffer Fiber Optic Cable, OM4, OFNP Indoor/Outdoor

OM4 Multimode 50/125 Indoor/Outdoor Plenum OFNP Distribution Fiber Optic Cable with Corning Glass This OM4 plenum distribution fiber cable is composed of 2-24 colored tight buffers, aramid yarn, and

Comprehensive Guide to Fiber Optic Pigtailes | Gezhi Photonics

As such, armored fiber pigtailes and waterproof fiber pigtailes are made available. Armored Pigtailes: Encased with a stainless steel tube or other sturdy material inside the outer jacket, armored

Multiplexing-Enhanced Computational Imaging: High-Fidelity ...

Multimode fiber (MMF) which supports parallel transmission of spatially distributed information is a promising platform for remote imaging and capacity-enhanced optical communication.

48 Cores GYTS Fiber Optic Cable Stranded Steel Tape

48 Core GYTS Fiber Optic Cable is the outdoor fiber optic cable type used for duct and aerial applications. We supply single mode GYTS fiber optical cable and multimode GYTS fiber optic

TAA Compliant Fiber Patch Cable, SC-LC, Multimode 50/

TAA Compliant Fiber Patch Cable, SC-LC, Multimode 50/125 10 Gig OM3, Duplex. These cables have low-loss reliability for multimode telecommunications and data center applications. Shop Cables Plus

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

