

Fiber Optic Patch Cord Color Chart



Overview

Fiber Optic Cable Color Codes Color codes are used in fiber optics to identify fibers, cables and connectors. Fiber Optic Color Code: The Ultimate TIA-598.

Key Takeaways

Fiber optic patch cords use standardized color codes for jackets, connectors, and individual fibers to ensure accurate identification and prevent misconnection. Outer Jacket Color Coding

The outer jacket of a fiber optic patch cord indicates the fiber type and mode:

- Singlemode (OS2): Yellow jacket
 - Multimode OM1 (62.5/125 μm): Orange jacket
 - Multimode OM2 (50/125 μm): Orange jacket
 - Multimode OM3 (50/125 μm , laser-optimized): Aqua jacket
 - Multimode OM4 (50/125 μm , laser-optimized): Violet jacket
 - Multimode OM5 (wideband, 50/125 μm): Lime green jacket
- These colors allow technicians to quickly identify the fiber type at a glance, especially in high-density installations or mixed-mode environments .

Connector Color Coding

Connector colors indicate the fiber mode and polish type:

- Singlemode UPC: Blue connector
- Singlemode APC: Green connector
- Multimode OM1/OM2: Beige connector
- Multimode OM3: Aqua connector
- Multimode OM4: Violet connector
- Multimode OM5: Lime green connector The connector color often matches the fiber type and helps prevent mismatched connections .

Individual Fiber Strand Color Sequence

Inside multi-fiber cables, each fiber is color-coded in a 12-color repeating sequence for identification:

- Blue
- Orange
- Green
- Brown
- Slate (Gray)
- White
- Red
- Black
- Yellow
- Violet
- Rose (Pink)
- Aqua For cables with more than 12 fibers, the sequence repeats with additional markings (e.g., stripes) to maintain unique identification. In high-density or MPO ribbon cables, a 16-color sequence may be used for fibers 13–16: Olive, Magenta, Tan, and Lime .

Practical Tips

- Labeling: Combine color coding with printed labels on jackets or connectors for clarity in complex installations.
- Splicing and Termination: Use the color sequence to match fibers correctly in splice trays or patch panels.

- High-Fiber Count Cables: Apply the “Tube and Fiber” system where each buffer tube and its fibers follow the color sequence for easy identification . By following these standardized color codes, technicians can reduce errors, maintain polarity, and ensure reliable network performance across singlemode and multimode fiber optic systems.

Article Content

Fiber Optic Color Code Chart & Cable Guide | PHILISUN

Use this fiber optic color code chart for 12 fiber colors, jacket colors, connector colors, UPC/APC polish, buffer tubes

Fiber Color Code: A Simple Guide for Beginners (2024)

In general, we can use different color coding to help identify the type of connector used on a fiber optic patch cord. The

What Do All The Colors Mean? Fiber Optic Color Code Explained

In this blog post, we're going to dive into how these color concepts translate to the world of fiber optics. Fiber optic

Fiber Optic Cable Color Coding Guide | PDF | Optical Fiber ...

The document discusses optical fiber cable color coding standards. It lists the color codes used to identify different types of optical

Fiber Optic Patch Cable

In addition, color-coding of connectors for different fiber standards make it easy to avoid confusion. Fiber Color Codes

Fiber Polarity Technical White Paper | FS

2.1 Fiber Patch cords Two types of duplex fiber patch cords are defined in the TIA standard: A-to-A type shown in Figure 1 and A-to

Fiber Color Code: Identify Optic Cable

In TIA-598, the fiber color code defines the outer jacket color codes for different fiber types. So, fiber patch cords or

Patch Cord Colors and the significance.. – MapYourTech

Patch Cords The buffer or jacket on patchcords is often color-coded to indicate the type of fiber used. The strain relief

Fiber Patch Cable Guide

GT-SCSCDM4A-xM fiber optic patch cords are ideal for short distance patching applications. These fiber optic cables have been built

Color Codes Card

Guide To Fiber Optic Color Codes Fibers, Loose Tubes & Ribbons Blue Orange Green Brown Slate White Red Black Yellow Violet

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