

What color is a 48-core optical cable



Article Overview

A 48-core optical cable uses a repeating 12-color sequence for individual fibers, with stripes or tube colors to distinguish groups.

Standard 12-Color Sequence

The TIA-598-C standard defines the following 12 colors for individual fibers: Blue, Orange, Green, Brown, Slate (Gray), White, Red, Black, Yellow, Violet, Rose (Pink), Aqua. These colors are applied sequentially to fibers within a buffer tube or sub-unit .

Applying the Sequence in a 48-Core Cable

For a 48-fiber cable, fibers are typically grouped into four buffer tubes, each containing 12 fibers. Each tube may have a distinct outer color (e.g., Blue, Orange, Green, Brown) to identify the tube, while the fibers inside follow the 12-color sequence. For example:

- Tube 1 (Blue Tube): Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
- Tube 2 (Orange Tube): Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
- Tube 3 (Green Tube): Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
- Tube 4 (Brown Tube): Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua...

Article Content

Dec 24, 2025

Fiber Optic Color Code Chart For 144 and 288 Count Cables

This is an update on a post we made a few years ago for a 144 count fiber color identification chart. Since then we have noticed

Aug 16, 2025

48 Fiber Fiber Optic Cables – Mouser

48 Fiber Fiber Optic Cables are available at Mouser Electronics. Mouser offers inventory, pricing, & datasheets for 48 Fiber Fiber

Sep 11, 2025

The FOA Reference For Fiber Optics

Topic: Fiber Optic Cable Table of Contents: The FOA Reference Guide To Fiber Optics
Fiber Optic Cable

Apr 13, 2026

AEN029 Optical Fiber Cable Color Codes

Corning Optical Communications supports the adoption of TIA/EIA-598 because it promotes standardization

May 16, 2026

Fiber Optic Cable Types: A Complete Guide

The plethora of fiber optic cable types can seem overwhelming, but choosing the right cable for the job is important.

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Fiber Optic Color Code

Fiber optic cable color code is a system that helps us distinguish fiber types visually from the colored fiber jacket, fiber

Apr 03, 2026

Fiber Color Code: Identify Optic Cable

Fiber color code is a color coding system used in fiber optics as specified by the TIA-598 standard to identify cables,

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Opti-Core Fibre Optic Indoor-Outdoor Armoured Cable 48 to 144

The fibre cable shall contain 48 to 144 fibres and have an armoured loose tube construction. It shall be suitable for indoor

Mar 09, 2026

A Simple Guide to Fiber Optic Color Codes for Easy Identification

Have you ever wondered how the technicians manage to organize the fiber optic cables in huge networks? With

Sep 27, 2025

Fiber Color Code Guide | Fiber Optic Cable Color Coding Standards

Learn the complete fiber color code guide. Understand fiber optic cable color coding standards and charts to simplify

Jul 10, 2026

Fiber optic strand & tube color codes in splice.me

So every fiber cable factory, and there's a huge amount of them, produces fiber cables with its own strand color code.

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TIA-598-C

For more than 12 fibers, the color codes are repeated and striped with black (except black, which is striped with yellow). Every twelve

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Fiber Optic Color Code Chart

Fiber optic cables use a different color code system compared to traditional copper cables like Ethernet. The color

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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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Fiber Color Code: The Ultimate Guide to TIA-598 Standards ...

The color of the connector body or boot tells you about the fiber type and, more importantly, the polish type. This is

Feb 06, 2026

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

Nov 25, 2025

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

When we see a rainbow, we are seeing these principal spectral colors and from these colors come all other colors

May 29, 2026

Decoding the Fiber Optic Color Codes

The TIA-598-C color code for fiber optics designates specific colors to individual fibers inside the cable or typically within each buffer

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How are the colors of 4-fiber, 12-fiber, 48-fiber, 96-fiber ...

Color sequence of optical fiber loose tubes in stranded GYTS cables Indicator color sequence Common fiber optic

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How are the colors of 4-fiber, 12-fiber, 48-fiber, 96-fiber ...

The color sequence for 48-fiber optic cables is typically divided into four bundles, each bundle containing 12 fibers with

Oct 06, 2025

48 Core Cable CST Loose Tube Armoured Fibre Optic

HOC 48 core cable CST armoured fiber cable has 4 loose tube and 2 filler, fiber glass yarn, corrugated

Feb 26, 2026

Fiber Optic Color Code Chart | TIA-598-C Reference Tool

Look up tube and fiber colors for any cable count, or find a fiber number by color combination. Based on the ANSI/TIA-598-C

Sep 20, 2025

How to Identify the Fiber Color Code Fiber Optic-Color Code Meaning

Conclusion Although this tutorial describes in detail how to distinguish different fiber optic cables by using optical fiber

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