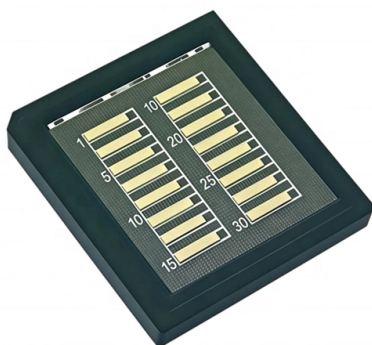


RIVO MULTITRADE OPTICAL SYSTEMS

Single-mode fiber optic 24-core color



Overview

Experience unparalleled long-distance connectivity with our 1000ft spool of 24-Strand Indoor/Outdoor Fiber Optic Cable.

Key Takeaways

A 24-core single-mode fiber optic cable uses a 12-color sequence repeated with a distinguishing stripe to identify each fiber, with a yellow jacket indicating single-mode fiber. Outer Jacket Identification

Single-mode fiber cables are typically yellow-jacketed, which visually distinguishes them from multimode fibers (OM1/OM2 orange, OM3/OM4 aqua, OM5 lime green) and indicates a 9µm core designed for long-distance, high-speed transmission using laser sources. The jacket color provides a quick reference for technicians during installation or maintenance.

Inner Fiber Color Coding

The TIA-598-C standard defines a 12-color sequence for individual fibers within a cable:

- Blue
- Orange
- Green
- Brown

- Slate
 - White
 - Red
 - Black
 - Yellow
 - Violet
 - Rose
- Aqua For cables with more than 12 fibers, such as a 24-core cable, the sequence repeats for fibers 13–24, but each fiber in the second group is marked with a black stripe or other distinguishing mark to differentiate it from the first 12 fibers . This ensures each fiber can be uniquely identified during splicing or patching.
- Example for a 24-Core Single-Mode Cable
- Fibers 1–12: Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
 - Fibers 13–24: Blue with black stripe, Orange with black stripe, Green with black stripe, etc., following the same order
- Connector Color Coding

Single-mode fiber connectors also follow a color standard:

- UPC (Ultra Physical Contact): Blue connector, polished flat, low insertion loss (~0.2 dB)
- APC (Angled Physical Contact): Green connector, polished at 8°, reduces back reflection (

Article Content

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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Its dry absorbent polymers eliminate water migration in cable interstices. This fiber is designed for harsh environments that are

Fiber Optic Cable Types: Comprehensive Guide

Single-mode fiber features a thin 8-9µm core that carries a single optical signal. This design significantly reduces signal

Single-mode optical fiber

In fiber-optic communication, a single-mode optical fiber, also known as fundamental- or mono-mode, is an optical fiber designed

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

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