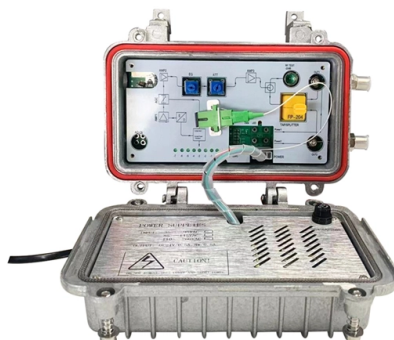


# RIVO MULTITRADE OPTICAL SYSTEMS

## 12 Single-mode fiber



### Overview

12 Strand Indoor Singlemode Fiber Optic Cable It is suitable for all indoor applications where fiber optic cabling is needed. It utilizes 900µm Tight Buffer.

### Key Takeaways

12-strand single-mode fiber cables are tight-buffered, indoor/outdoor compatible, and available in plenum or riser-rated versions for backbone and LAN deployments.

A 12-strand single-mode fiber cable contains twelve individual optical fibers, typically 8.3/125 µm (OS2) or OS1 fibers, designed for long-distance, high-bandwidth communication. These fibers are tight-buffered (usually 900 µm) for easier handling, termination, and installation in indoor or indoor/outdoor environments. The cables are often color-coded according to TIA-598 standards for easy identification during installation.

#### Cable Types and Ratings

- Plenum-rated (OFNP): Suitable for air-handling spaces, low-smoke, flame-retardant, ideal for multi-floor or headend-to-backbone installations.
- Riser-rated (OFNR): Designed for vertical runs between floors, flame-retardant but not for plenum spaces.



- Indoor/Outdoor: UV-resistant jackets and water-blocking technology allow deployment in ducts or aerial installations without transition splices .

#### Construction Features

- Tight-buffered fibers: 900 µm coating for easy termination and direct connectorization.
- Strength members: Aramid yarn or similar materials provide tensile strength and durability during installation .
- Water-blocking: Dry water-blocking polymers prevent moisture migration, enhancing reliability in outdoor or damp environments .
- Jacket options: Available in multiple colors for identification, with small bend radius for space-constrained areas .

#### Applications

- LAN and backbone networks: Multi-floor or intra-building backbones.
- Headend termination: Connection to fiber racks or distribution panels.
- Campus or aerial installations: Indoor/outdoor riser cables can enter buildings directly without splicing .
- High-density deployments: Supports up to 144 fibers in some distribution cable families, allowing scalable expansion .

#### Installation Considerations

- Tight-buffered fibers simplify termination and connectorization without fan-out kits.
- Plenum-rated cables are required in air-handling spaces to meet fire codes.
- Riser-rated cables are suitable for vertical runs but not plenum spaces.
- Indoor/outdoor cables with UV-resistant jackets and water-blocking are ideal for direct burial or aerial runs entering buildings . In summary, 12-strand single-mode fiber cables provide a versatile solution for indoor, riser, plenum, and indoor/outdoor applications, offering durability, easy termination, and compliance with fire and environmental standards .

## Article Content

### 12 Strand Indoor Singlemode Fiber Optic Cable

It is suitable for all indoor applications where fiber optic cabling is needed. It utilizes 900µm Tight Buffers, Aramid yarn strength

### Single Mode Fiber Optic Cable

Fiber Optic Cable, Tight Buffer, Single-Mode, 12 Strand, TeraFlex® Reduced water peak, 900 Micron, OFNR, Riser, Indoor/Outdoor,

### Fiber Optic Cable, Singlemode, 12 Fiber

Shop Fiber Optic Cable, Singlemode, 12 Fiber By Corning (012EU4-CP692D20) At Graybar, Your Trusted Resource For Fiber Optic

### 12 Core Single Mode Fiber Optic Cable

Features: Single Mode Design: With a core-to-core diameter of 9/125µ, single mode fiber technology provides high bandwidth and

### 12 Fiber Indoor/Outdoor Tight Buffered Cable

This fiber optic indoor/outdoor cable is designed to be flexible enough to be used indoors & are rugged enough to be used in general

### FREEDM® One Tight-Buffered Cable, Riser 12 F, Single-mode (OS2)

Corning FREEDM® One riser cables are flame-retardant, UV-resistant, indoor/outdoor cables designed for aerial and duct

### Plenum 12 Strand Outdoor Fiber Optic Cable, OS2,1000ft

It is composed of 12 singlemode fibers (9 micron core) inside a water blocking Aramid yarn wrapped in a black PVC outer jacket.

### Corning FREEDM One, 12 Strand, Indoor/Outdoor, Singlemode, Riser Rated ...

Corning FREEDM One, 12 Strand, Indoor/Outdoor, Singlemode, Riser Rated, Fiber Optic Cable, (OS2) General Description Corning

### CableWholesale 12 Strand Indoor/Outdoor Fiber Optic Cable, OS2

High-Speed Optic Cable: Our indoor/outdoor certified black 2000-foot spool of fiber optic distribution cable is made for lengthy, high

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