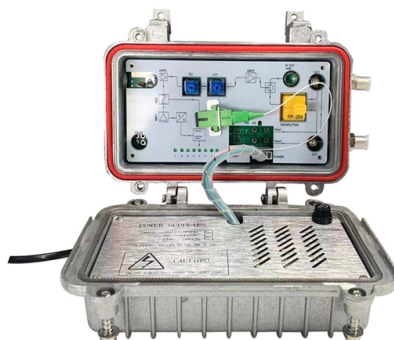


RIVO MULTITRADE OPTICAL SYSTEMS

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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