

Article Overview

A 288 core fiber optic cable is a high-capacity cable designed for large-scale data transmission, featuring multiple loose tubes or ribbonized fibres, suitable for indoor, outdoor, and data center applications.

Cable Structure and Types

A typical 288 core fiber optic cable can be constructed in two main ways:

- o Multi Loose Tube Armoured Cable: Fibres are grouped into 24 loose tubes, each containing fibre jelly for protection. These tubes are stranded around a central strength member (CSM) and wrapped with water-blocking glass yarn and corrugated steel tape (CST) for mechanical protection. The outer sheath can be made of PE, LSZH, or flame-retardant materials, making it suitable for duct, direct burial, or backbone communication cabling .
- o Ribbonized Indoor Cable: Fibres are organized into ribbons, typically 12 fibres per ribbon, for easy mass fusion splicing and MPO-style connector termination. Each ribbon is housed in a sub-unit tube for better handling and management. These cables are often LSZH-rated and flame-retardant, ideal for high-density data center distribution .

Fibre Type and Performance

- o Singlemode OS2 Fibres: Most 288 core cables use G.652.D compliant low water peak singlemode fibres, offering OS2 performance and backward compatibility with OS1. Some cables also support G.657.A1 for bend-insensitive applications .
- o High-Density Applications: Ribbonized cables are optimized for mass fusion splicing, reducing installation time and space requirements in data centers .

Applications

- o Telecommunication Backbone: High-capacity long-distance transmission in outdoor environments.
- o Data Centers: High-density indoor distribution, supporting FTTH networks and large-scale server interconnections.
- o Industrial and Harsh Environments: Armoured cables provide rodent resistance, mechanical protection, and durability for direct burial or exposed installations .

Key Features

- o Mechanical Protection: Corrugated steel tape armouring or all-dielectric designs for indoor/outdoor versatility.



288-core fiber optic cable

- o Flame Retardancy: LSZH or flame-rated sheaths for safety in indoor installations.
 - o Ease of Installation: Lightweight, compact, and designed for quick deployment with clear jacket markings .
 - o Customizable Options: Sheath materials, jacket color, and fibre type can be tailored to project requirements .
- A 288 core fiber optic cable is ideal for projects requiring high bandwidth, reliability, and long-term scalability, making it a standard choice for modern telecommunication networks and data center infrastructures.

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

Outdoor dry core optical fiber Multi Loose Tube cable with glass yarns as strength member, Corrugated Steel Tape (Full Rodent

FISR288P5 - Indoor OFNP OS2 Flexible Ribbon 288 Fibers 24F Subs

Corning SST-UltraRibbon gel-free cables continue the innovative breakthrough in outdoor cable technology by introducing a new

Explore the details, specifications and video of our FTTB Indoor Fiber Optic Cable 2-288 cores Loose

288ZV5-14700S53 RocketRibbon® Cable-250 288 F, Armored, Bend-Improved Single-Mode (OS2)
Typically ships in 28 day (s)

Universal (Indoor/Outdoor) dry core optical fiber Multi Loose Tube cable with glass yarns as strength member, Corrugated Steel

The term "288 core" refers to the number of individual optical fibers bundled within a single cable. Each core, or

Discover our 288 core single mode fiber optic cable, ideal for outdoor aerial use with armored protection. Prices range from \$0.1 to

Outdoor dry core optical fiber Multi Loose Tube cable with aramid yarns as strength member and polyethylene outer jacket. Existing

Product Number: FISR288A5 Indoor Flexible Ribbon OS2 288 Fibers OFCP Aluminum Interlocked Armor

Ribbon fiber cable is making a series of separate fiber (4F, 6F, 8F,12F and so on) bond each other, which is grouped together to be a



288-core fiber optic cable

Corning RocketRibbon® Cable-250 with FastAccess® Technology represent a truly innovative

Universal (Indoor/Outdoor) dry core optical fiber Multi Loose Tube cable with aramid yarns as strength member and Low Smoke Zero

Our 288 Strand OSP Singlemode QuickTreX® Pre-Terminated Fiber Optic Assemblies Are Made In The USA With Corning Glass By

288 singlemode fibres for high density data center distribution applications. The fibres shall be ribbonized for easy mass fusion

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