

Diameter of 288-core ribbon optical cable



AI Overview

The diameter of a 288-core ribbon optical cable typically ranges from 18 mm to 25 mm, depending on the manufacturer and cable construction.

Overview

A 288-core ribbon optical cable is designed for high-density data center or telecom applications, often using 12-fiber ribbons arranged in multiple stacks or subunits for mass fusion splicing and MPO-style terminations. These cables can be indoor, riser-rated, or armored depending on the installation environment. The overall diameter depends on factors such as:

- Number of ribbons and stacking method (single tube vs multiple subunits)
- Presence of strength members (dielectric or steel)
- Type of outer jacket (LSZH, flame-retardant, armored)
- Water-blocking or gel-free design

Typical Dimensions

Indoor riser or distribution cables: 288 fibers in a single tube with 12-fiber ribbons usually result in a diameter around 18–20 mm.

Armored or heavy-duty cables: Interlocking aluminum or steel armor for crush resistance can increase the diameter to 22–25 mm.

Loose tube or outdoor variants: Stranded loose tube designs with gel-free filling may also fall within the 20–24 mm range.

Additional Considerations

Bend radius: High-fiber-count ribbon cables require careful handling; the minimum bend radius is typically 10–15 times the cable diameter for installation.

Weight and flexibility: Armored cables are heavier and less flexible, which may affect conduit sizing and routing.

Ribbon access: 12-fiber ribbons are designed for easy mass fusion splicing, and subunits may be finger-peelable for faster termination.

In summary, while the exact diameter varies by manufacturer and cable type, a 288-core ribbon optical cable generally measures between 18 mm and 25 mm, with armored or outdoor variants at the higher end of the range. This range should be used for planning conduit space, cable trays, and installation logistics.

Article Content

Ribbon Fiber Optic Cable

Fiber Optic Ribbon Cable Ribbon cables offer higher fiber counts and greater fiber density than any other cable construction designed for the outside plant (OSP), four times the highest-fiber-count

288 strand fiber optic cable

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 flat strip. Many groups or strips form the optical cable, called

Learning About 288 Core Optical Fiber Ribbon Cable: Grades,

Discover the specs, performance, and applications of 288 core optical fiber ribbon cable. Explore grades, material standards, and its role in telecom, data centers, and high-speed networks.

What Is Ribbon Fiber Optic Cable? Advantages & Applications?

The optical fiber ribbon in the cable is generally 12 cores and 24 cores. The central tube optical cable has the characteristics of light weight, small diameter and low cost.

Ribbon Fiber Cable

Product Number: FISR288A5 Indoor Flexible Ribbon OS2 288 Fibers OFCP Aluminum Interlocked Armor Sub-units 3.0mm (24F)

External Underground Loosetube Optical Cable

This loose tube dielectric ribbon optical cable is designed for external underground installations in ducts or by direct burial in open-cut trenches. Polyamide provides anti-termite protection.

RocketRibbon® Extreme Density Fiber Ribbon Cables | Corning

RocketRibbon provides industry leading density providing twice the fiber count in the approximately the same footprint of existing central tube and stranded ribbon tube design cables. RocketRibbon is

288EV4-14100D53 | SST-UltraRibbon Single-Tube, Gel-Free Cable 288

Corning SST-UltraRibbon gel-free cables continue the innovative breakthrough in outdoor cable technology by introducing a new generation of high-fiber-count gel-free cables. Providing high-fiber

288core Gydta Central Loose Tube Ribbon Fiber Optic

Optical fiber ribbon have accurate geometric dimension.3. Loose tube has good flexibility.4. Easy to draw out, splice and clean, low cost of

GCCF288 Technical Data Sheet

Product feature: This cable has improved rodent protection by Corrugated Steel Tape (Full Rodent Protected). Existing out of 12 tubes with a diameter of 2.5mm with 288 fibers (12t x 24f) MM OM2.

FISR288C5 Technical Data Sheet

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied.

SST-UltraRibbon Gel-Free Dielectric Cables, 288-864 Fibers

SST-UltraRibbon Gel-Free Dielectric Cables, 288 Fibers Corning SST-UltraRibbon™ gel-free cables continue the innovative breakthrough in outdoor cable technology by introducing a new

Fiber Identification Charts - 288-864 Fiber

Wrapping Tube Cable (WTC) with SpiderWeb Ribbon® (SWR®) This document provides direction on properly identifying the ribbon and individual fiber in the AFL Wrapping Tube Cable. Depending on

Product Spec Sheet 288EV8-14101-A3

Available in fiber counts from 288 to 432, each 24-fiber ribbon can be easily separated by hand into two 12-fiber ribbons. The 12-fiber ribbons have readily identifiable ribbon IDs, fiber

Product Spec Sheet 288ZV4-14700S53

Each subunit is finger-peelable and contains two water-blocking yarns that act as ripcords, enabling rapid access to the ribbon stack for faster termination. The conventional 12-fiber

RocketRibbon® Extreme Density Cables | Ribbon Cable | Corning

RocketRibbon® Cable Corning's new RocketRibbon® cabling solution was developed to meet today's demand for the highest bandwidth capacity in a duct, buried or aerial application. RocketRibbon

288ZV5-14700S53 | RocketRibbon® Cable-250 288 F, Armored,

288ZV5-14700S53 RocketRibbon® Cable-250 288 F, Armored, Bend-Improved Single-Mode (OS2) Typically ships in 28 day (s) Actual lead time confirmed upon receipt of order.

Opti-Core 144 and 288-Fibre Indoor Ribbon Cables, LSZH and

288 singlemode fibres for high density data center distribution applications. The fibres shall be ribbonized for easy mass fusion splicing and termination with 12-fibre MPO style connectors.

SMF-28 Ultra Optical Fibers | SMF-28 Ultra 200 and

SMF-28 Ultra fiber is available in a traditional 242 µm diameter as well as a reduced 200 µm diameter option for smaller, lighter, high-fiber-count cables. SMF-28®

The FOA Reference For Fiber Optics

Furukawa Electric Co., Ltd. (FEC) conducted an experiment in its Mie, Japan facility to demonstrate the installation of a 6912-fiber optic cable with an outer diameter

760086710 | R-288-LN-8W-F12BK/25D | CommScope

Fiber Indoor/Outdoor cable, TeraSPEED®, Single Jacket All-Dielectric, 288 fiber, Riser Rated, Gel-Free, Stranded Loose Tube, Singlemode G.652.D and G.657.A1, Feet jacket marking, Black jacket color

Fiber Optic Color Code Chart For 144 and 288 Count Cables

Since then we have noticed thousands of searches from people looking for fiber optic color codes for 288 and 432 count fiber, both ribbon and string separated, 24 fiber tubed cables. So here you go.

Product Spec Sheet 288ZVF-14101D20

The smallest and lightest in the industry, these cables are designed to maximize the use of critical duct space with excellent installation results. The UV-resistant, flame-retardant jacket

Product Spec Sheet 288ZQJ-13001R20

A specially formulated flame-retardant jacket allows this cable to be used in indoor general purpose horizontal and riser applications. This cable consists of six routable subunits with 288 250

Contact Us

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