Outer diameter of 288 core optical cable

Article Overview

The overall diameter of a 288-core optical cable typically ranges from approximately 18 mm to 22 mm, depending on construction and armor type.

Cable Construction

A 288-core optical cable usually consists of 12 loose tubes, each containing 24 fibers, arranged around a central strength member. For example, the Belden GCCF288 cable uses 12 tubes of 2.5 mm diameter each, with glass yarns for strength and a corrugated steel tape (CST) armor for rodent protection, all enclosed in a low smoke zero halogen (LSZH) jacket . Other designs, such as Corning SST-UltraRibbon or CommScope TeraSPEED cables, may use single or multiple buffer tubes with ribbonized fibers, gel-free or water-blocking tapes, and additional strength members, which slightly affect the overall diameter .

Approximate Diameter Calculation

o Tube diameter: 2.5 mm
o Number of tubes: 12
o Arrangement: Tubes are typically helically stranded around a central member
o Armor and jacket thickness: Adds 2-4 mm depending on material (CST, PE, LSZH) Using these parameters, the overall cable diameter is generally in the range of 18-22 mm for armored 288-core cables, while non-armored indoor cables may be slightly smaller, around 16-18 mm .

Practical Considerations

o Installation: Ensure ducts or trays can accommodate the cable diameter plus bending radius.
o Weight and flexibility: Armored cables are heavier and less flexible than non-armored designs.
o Environmental factors: Outdoor cables may include water-blocking tapes or gel-free designs, slightly increasing diameter. In summary, while the exact diameter depends on the manufacturer and cable type, a 288-core optical cable with 12 tubes of 24 fibers each typically measures around 18-22 mm in diameter for armored designs and slightly less for indoor, non-armored versions .

Technical Specifications Product Overview ... Fiber Specifications ... Cable Construction ... Inner Jacket Specifications ... Outer

Fiber Indoor/Outdoor cable, TeraSPEED®, Single Jacket All-Dielectric, 288 fiber, Riser Rated, Gel-Free, Stranded Loose Tube,

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Product feature: This cable has improved rodent protection by Corrugated Steel Tape (Full Rodent Protected). Existing out of 12

Home / Fibre Optic / Cable / Outdoor Cable / Backbone Cable / Horizontal Horizontal Outdoor Cable - 288 Fibres Briticom(TM) offers a

288EU4-T4101D20 ALTOS® Loose Tube, Gel-Free Cable 288 F, Single-mode (OS2) Typically ships in 42 day (s) Actual lead time

Fiber Count (cable): 288 Fibers per Tube: 12 Maximum Fibers per Tube: 12 Number of Active Tubes: 24 Number of Ripcords: 1

The term "288f cable diameter" refers specifically to the outer measurement of a fiber optic cable that contains 288

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

SST-UltraRibbon Gel-Free Dielectric Cables, 288 Fibers Corning SST-UltraRibbonTM gel-free cables continue the

Product Overview Enbeam OS2 Singlemode CST Armoured Fibre Optic Cable Loose Tube 288 Core 9/125 HDPE Fca Black, part of

Product Description Dome Closure,DT-DC911-RSB288,Protection Grade:IP68,Number ofports Total:11Pieces,Diameter of fiber optic

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

rizontal 288 Fibre Outdoor Cable Product Description Briticom® offers a wide range of indoor and outdoor fibre optic distribution,

Enbeam OS2 Singlemode G.657.A1 Fibre Cable Multi Loose Tube 288 Core 9/125 HDPE Fca Black, part of a huge range of OS2

288 Fibre MicroCore® Stranded Loose Tube Cable MicroCore® Stranded cable comprising 288 optical fibres contained in jelly-filled

Binderless FastAccess® Technology Innovative cable design that reduces cable access time up to 70

percent and lowers the risk of

Web: https://www.millstraining.co.za