

288-core optical fiber loose tube



Article Overview

A 288-core loose tube optical fiber cable is a high-capacity, multi-fiber cable designed for indoor and outdoor backbone applications, offering flexibility, waterblocking, and mechanical protection.

Construction and Design

Loose tube cables house multiple optical fibers in flexible tubes that are stranded around a central strength member. In a 288-core configuration, the fibers are typically organized into 12 tubes with 24 fibers each or similar arrangements, depending on the manufacturer . The loose tube design isolates fibers from mechanical stress and environmental factors, allowing easy mid-span access and reducing the risk of fiber damage during installation . Key construction features include:

- All-dielectric or armored options: All-dielectric cables require no grounding, while armored versions (e.g., CST steel tape) provide rodent resistance and enhanced mechanical protection .
- Waterblocking: Many cables use gel-free, water-swallowable materials to prevent water ingress without messy gels .
- Strength members: Aramid yarns or central rods provide tensile strength and crush resistance .
- Outer jacket: Typically made of PE (polyethylene) or LSZH (Low Smoke Zero Halogen) for outdoor or indoor use, respectively .

Fiber Type and Performance...

Article Content

Fiber Optic Indoor/Outdoor Cables

Fiber Optic Cables For Indoor/Outdoor Applications Fiber Optic Cables For Indoor/Outdoor Applications These are cables that are

Opti-Core® LSZH Indoor-Outdoor All-Dielectric Fiber Optic Cable

The fiber cable shall have a loose tube, all-dielectric (non-conductive) construction with 6, 12, 24 or 48 fibers and comply with

Enbeam OS2 Armoured CST Fibre Optic Cable Loose Tube 288 Core

The singlemode fibre is G.652.D compliant low water peak grade and offers OS2 performance and OS1 backwards compatibility.

Fiber Optic Cable

Fiber Cable Belden's extensive line of indoor and outdoor cable products is offered in tight buffer and loose tube designs. Armored,

810009727/DB | B-288-LN-8F-M24NS/17T 200 | CommScope

Fiber OSP cable, Zero Water Peak, ® Blown Micro Single Jacket All-Dielectric Outdoor Stranded Loose Tube 200um Fiber Arid-Core

288 Core CST Fibre Cable Multi Loose Tube Armoured Cable

288 fibre are placed into 24 loose tubes with fibre jelly compound, multi loose tube are stranded around a central strength member

Color Arrangement Rules For Optical Fiber

For large fiber counts, tubes or fibers may also have additional markings, such as stripes or rings, to avoid confusion.

288 Fibre MicroCore® Stranded Loose Tube Cable

288 Fibre MicroCore® Stranded Loose Tube Cable elly-filled loose tubes (24 fibres per tube). The tubes are laid up around a central

288 Fibre Stranded Loose Tube Cable

288 Fibre Stranded Loose Tube Cable Stranded cable comprising 288 optical fibres contained in jelly-filled loose tubes (12 fibres per

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,

Fiber Optic Cables

CommScope designs and manufactures a comprehensive line of fiber optic cables—from outside plant to indoor/outdoor and fire

Fiber Optic Color Code Chart For 144 and 288 Count Cables

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

Ribbon Fiber Optic Cable

Fiber Optic Ribbon Cable Ribbon cables offer higher fiber counts and greater fiber density than any other cable construction

288EU4-T4101D20

The flexible craft-friendly buffer tubes are easy to route in closures, and the SZ-stranded, loose tube design isolates fibers from

Outside Plant Fiber Optic Cable

Outside Plant Fiber optic cables for outdoor applications are engineered to withstand the more demanding conditions seen outside,

Multi-Loose Tube Fiber Cable

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

Fibre Optical Multi Loose Tube Cable, Outdoor, 288F

Multi Loose Tube Cable, Outdoor, 288F Applications Building interconnection, Backbone netw. length 2000 meters Packaging Details

288KRZ-T3108A2G | Loose Tube Indoor/Outdoor Cable 24x12 G62.5

The loose tube cable construction, by isolating the fibers from installations and environmental rigors, provides stable and highly

Rollable Ribbon | High Density Fiber Optic Cable – Lightera

Featuring 144, 288, or 432 optical fibers in a gel-free, central core cable design. This cable features rollable ribbons, the newest

Fiber Optic Cables

Corrugated steel tape armoured central loose tube cable with excellent mechanical protection and thus secure rodent protected. The

Contact Us

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