288-core fiber optic cable model and specifications



Overview

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.

Key Takeaways

288-core fiber optic cables are available in indoor ribbonized, loose tube, and armored designs for high-density data center and backbone applications.

Indoor Ribbonized Cables

The Panduit Opti-

Core 288-fiber cable is designed for indoor data center distribution. It features ribbonized singlemode fibers for easy mass fusion splicing and termination with 12-fiber MPO connectors. Each ribbon has its own sub-unit tube for simplified handling, and the cable is Low Smoke Zero Halogen (LSZH) rated for flame safety.

This design allows the ribbons to naturally open when the outer jacket is removed, facilitating installation and management in high-density environments.

Loose Tube Gel-

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Free Cables

The Corning ALTOS® 288-core loose tube cable is suitable for outdoor and limited indoor use, including aerial and duct installations. It uses a gel-free, water-blocked loose tube design with SZ-stranding to protect fibers from environmental and mechanical stress. The all-dielectric construction eliminates the need for bonding or grounding, and the medium-density polyethylene jacket provides durability and ease of stripping.

This type is ideal for backbone networks requiring flexibility and mid-span access.

Armored Loose Tube Cables

The Enbeam OS2 288-core CST armoured cable and Belden GCCF288 are designed for high mechanical protection and rodent resistance. They feature loose tube singlemode fibers (G. 652.

D compliant) with corrugated steel tape (CST) armor and LSZH or HDPE outer jackets. These cables are suitable for industrial, campus, or building backbone applications, supporting both indoor and outdoor structured wiring systems. They are compact, lightweight, and provide OS2 performance with OS1 backward compatibility.

Indoor/

Outdoor Stranded Loose Tube Cables

The CommScope R-288-LN-8W-F12BK/25D is a single-jacket, all-dielectric, gel-free, stranded loose tube cable with 288 singlemode fibers (G. 652. D and G.

657. A1). It is riser-rated for indoor/outdoor use and features feet jacket marking for easy identification.

This cable is suitable for installations requiring flexibility and medium-density fiber distribution.

Key Considerations

Fiber Type: Singlemode (OS2, G. 652. D) or multimode (OM2/OM3/OM4) depending on application.

Construction: Ribbonized for mass fusion splicing, loose tube for environmental protection, or armored for rodent and mechanical protection. Environment: Indoor (LSZH, riser-rated), outdoor (PE jacket, gel-free), or hybrid indoor/outdoor. Connector Compatibility: Typically 12-fiber MPO or LC connectors for high-density terminations.

Applications: Data centers, campus backbones, industrial networks, telecom, and broadcast systems. These 288-core fiber optic cables provide high-density, scalable solutions for modern network infrastructures, with options tailored to installation environment, mechanical protection, and fiber management preferences.

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Article Content

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.

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.

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

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. These compact, lightweight cables are extremely rugged, provide rodent

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 reliable transmission parameters. The buffer tubes and fibers in each tube

Multi-Loose Tube Fiber Cable

Universal (Indoor/Outdoor) dry core optical fiber Multi Loose Tube cable with aramid yarns as strength member, Low Smoke Zero Halogen inner jacket, Corrugated Steel Tape (Full Rodent Protected)

288 Fibre Stranded Loose Tube Cable

The dual layer tube construction is stranded around a central strength member and contained within a dry, water blocked cable core, sheathed with polyethylene (PE) and UV stable, termite resistant

288 Core CST Fibre Cable Multi Loose Tube Armoured

Offers 4 core 24 core 48 core to 288 core with different cable structure. This 288 core CST fibre cable has a corrugated steel tape CST and a CSM, flame

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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 non-metallic strength member, dr

GL FIBER 24 Core ADSS Fiber Optic Cable, G652D, 120m Span

GL FIBER'' ADSS cables offer a rapid and economical means for deploying optical fiber cables along existing aerial rights-of-way.

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GYFTY Fiber Optic Cable Price & Datasheet

12-24-48-72-144 Core GYFTY Fiber Optic Cable FRP non-metallic Single Jacket Waterproof Dielectric Loose Tube ? Price For Sale and Specifications ina

Fiber Optic Outdoor ADSS Aerial Cable Singlemode 1 to 288 Core 100 ...

Key attributes Type Fiber Optic Cable Number of Conductors ≥ 10 Fiber Type G657A2 Model Number ADSS Fiber Optic Cable Brand Name TTI Fiber Place of Origin Guangdong, China Product name

Fibre Optic Cable Catalogue

Fibre Types & Wavelengths Briticom® cables are available in many specifications, for both indoor and outdoor use. We have a wide range of indoor and outdoor fibre optic distribution, patching and

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The FOA Reference For Fiber Optics

The fibers will be aligned using core alignment method for that splicer The fibers will be fused by an automatic arc cycle that heats them in an electric arc and feeds the fibers together at a controlled

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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