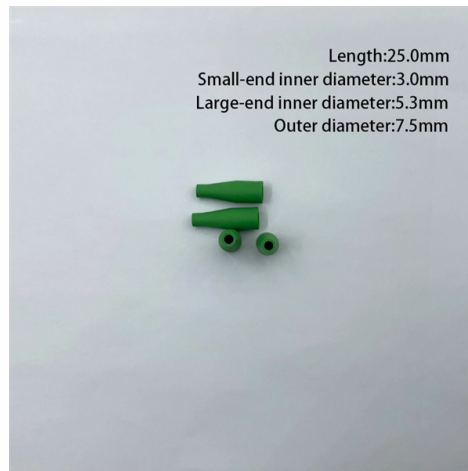


32-core fiber optic fusion splice closure



Overview

Fiber Optic Closures | Optical Communications | Corning
Closures are designed for splicing fibers in aerial, duct and buried appl.

Key Takeaways

A 32-core fiber optic fusion splice closure is a high-capacity, environmentally sealed enclosure designed to protect and manage up to 32 optical fibers, supporting up to 144 splices with flexible installation options.

Overview

A 32-core fiber optic fusion splice closure is used to protect optical fiber splices in straight-through or branching applications. It is suitable for aerial, duct, wall-mounted, pole-mounted, and direct buried installations, providing robust protection against environmental factors such as dust, water, UV exposure, and temperature fluctuations. These closures are essential in FTTX networks for splicing, distribution, and cable management.

Key Features

High Splice Capacity: Supports up to 144 fiber splices across multiple trays, typically three, each accommodating 24 or 48 fibers. **Adapter Integration:** Compatible with 32+2 SC adapters, allowing efficient fiber distribution. **Splitter Support:** Can house 1:32 cassette PLC splitters, facilitating network branching and signal distribution.



Environmental Protection: Rated IP68, ensuring water and dust resistance for outdoor and harsh environments. **Durable Construction:** Made from high-strength PC+ABS materials with UV-resistant additives, providing long-term durability and resistance to vibration, impact, and temperature changes. **Sealing Mechanism:** Uses heat-shrinkable sleeves or mechanical sealing structures to secure cable ports and maintain closure integrity.

Flexible Installation: Designed for aerial, wall-mounted, or pole-mounted setups, with optional accessories like grounding devices, inflating valves, and mounting kits. **Longevity:** Engineered for a service life of up to 25 years in outdoor conditions.

Applications

These closures are widely used in FTTX deployments, including fiber-to-the-home (FTTH), fiber-to-the-building (FTTB), and fiber-to-the-curb (FTTC) networks. They provide secure splicing for both straight-through and branching fiber connections, ensuring reliable signal transmission and network stability.

Summary

A 32-core fiber optic fusion splice closure combines high splice capacity, environmental protection, and flexible installation to support modern fiber optic networks. Its robust design, IP68 rating, and compatibility with splitters and adapters make it ideal for long-term outdoor deployment in aerial, buried, or wall-mounted configurations.

Article Content

The FOA Reference For Fiber Optics

For protection against the outside plant environment and damage, splices require placement in a protective enclosure, usually called a splice closure. Splices are generally placed in a splice tray

Fiber Optic Splice Closure

Fiber Optic Splice Closure Applications: Outdoor Fiber Optic Cable Splicing and Cable Management Aerial, Underground, or Direct Bury Mid-span Cable and Cut-end Cable Entry

Fiber Dome Closures | Fiber Optic Closures | Corning

These easy-to-install closures cover all fiber counts with strong bonding and industry-friendly mechanical capabilities, making them the best closure choice

Fiber Optic Splice Closures (FOSC)

The FOSC-450 is a single-ended, environmentally sealed enclosure for fiber management in the outside plant network. FOSC-450 gel splice closures have the same splice capacity as FOSC-400 closures

Fiber Splice Closures for FTTX Access

To tackle the variety of challenges service operators face when deploying fiber, CommScope has created a family of fiber optic splice closures that balance key criteria such as reliability, installability,

Fiber Optic Splice Closure Guide | Structure, Types

This guide is written to provide a complete and engineering-oriented understanding of fiber optic splice closures—from basic concepts and

CommScope FOSC600-D8B-NT-0-D2V FOSC™, Fiber Optic Splice

Compatible with most common cable types: e.g. loose tube, central core, ribbon fiber
FOSC splice trays hinged for access to any splice without disturbing other trays

The FOA Reference For Fiber Optics

Virtually all singlemode splices are fusion. Mechanical splicing is used for temporary restoration and for most multimode splicing. Connectors are used for

How to Splice Fiber Optic Cable – Step-by-Step Fusion

Learn how to splice fiber optic cable using fusion splicing with this complete step-by-step guide. Includes tools, best practices, loss standards (ITU)

Fiber Optic Cable and Splice Closure Solutions | Corning

RocketRibbon® Cable and 2178-XL Closures Our Fiber Optic Splice Closure 2178 family is ideal for our RocketRibbon® and SST-Ribbon™ cables. The solution

Everything You Need to Know about Optical splice closure

A optical splice closure is a protective enclosure that houses and shields fiber optic splices. These closures offer both mechanical and environmental protection, ensuring that fiber

Splice Closure Selection Guide

Optical Splitters and Components for FSDC Charles Fiber Splitter Trays (CFST) can be installed in splice closures for distributed splice passive optical networks. They feature an operating wavelength

The FOA Reference For Fiber Optics

Optical Core Alignment (also called “Profile Alignment”), an optical alignment technique, is used by many models of fusion splicers. The two fibers are illuminated from two directions, 90 degrees apart.

Fusion-splice basics

Fusion splicing is used for joining cables during network installation projects, repairing cables, mounting pre-polished splice-on connectors, and

Fiber Splicing Methods and Protection with Splice Closures

Discover the differences between fusion and mechanical splicing, learn how to ensure safe fiber optic splicing, and see why splice closures are essential for long-term network reliability.

Fiber Optic Dome Closures (FODC)

Dome Closures for FTTX Applications Charles Fiber Optic Dome Closures (FODC) provide a versatile solution for splicing and protecting outdoor fiber connections

Fiber Optic Splice Closure Guide | Structure, Types

Comprehensive guide to fiber optic splice closures covering structure, fiber management systems, sealing design, mid-span access, UV-resistant

Fiber Splice Solutions

Comprehensive fiber splice solutions offering versatile, user-friendly, and cost-effective optical splice closures for various applications.

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