

Fusion heat shrink tubing for pigtails and fiber optic cables



AI Overview

Fusion heat shrink tubing provides mechanical strength, environmental protection, and optical integrity for fiber optic splices, making it essential for pigtails and cable connections.

Overview

Fusion heat shrink tubing, also known as fiber splice tubes, fusion protection tubes, or splice protection sleeves, is designed to protect optical fibers at splice points. These tubes are critical in maintaining optical transmission performance while providing mechanical reinforcement and environmental resistance for both single fiber and ribbon fiber splices .

Structure and Materials

A typical fusion heat shrink tube consists of three main components:

- **Outer Tube:** Made of cross-linked polyolefin, it shrinks under heat to tightly encase the fiber and internal components, providing mechanical strength and environmental sealing .
- **Inner Hot Melt Tube:** A polymer liner that melts during heating to form a bubble-free, smooth coating, rebuilding the fiber's protective layer and ensuring optical integrity .
- **Reinforcing Rod:** Usually stainless steel (304 grade) or quartz/ceramic, this rod pr...

Article Content

Jun 06, 2026

Fiber Optic Protection Splicing Sleeves Heat Shrink Tube

A specially designed cross-linked clear heat shrinkable tubing, with clear fusion tubing liner, providing strength member and

Nov 25, 2025

Fusion Splice Sleeves

International distributor for fiber optic components, equipment and accessories while providing invaluable technical consultation and

Mar 02, 2026

45mm FTTH Drop Fiber Optic Equipment Fusion Splicing Cable

45mm FTTH Drop Fiber Optic Equipment Fusion Splicing Cable Protection Sleeve Heat Shrinkable Sleeves for

Apr 01, 2026

60mm Fusion Splice Sleeves, 50 Pack

This sleeve contains a custom inner tube made of polyolifin, which melts around the fiber to provide both

Mar 14, 2026

Fiber Optic Heat Shrinkable Splice Tube-Broalink

Fiber Optic Heat Shrinkable Splice Tube Protect Fiber Fusion Points: Clear sleeve makes it easy to detect splice before shrinkage,

Nov 05, 2025

12 Strand Multi-Mode FC OM1 Fiber Optic Pigtailes for Fusion Splicing ...

12 Strand Our fiber optic pigtailes are made of high-quality Single-mode, OS2, 9/125, Multi-mode 62.5/125 and 50/125 fiber optic cable

Nov 14, 2025

60mm Fusion Splice Sleeves, 50 Pack

Product Description The most popular method of protecting a fusion splice is the utilization of two heat sensitive tubes supported by a

Mar 30, 2026

Heat Shrink Fiber Optic Fusion Splice Protection Sleeves

Easy installation process minimizes the risk of fiber damage Transparent sleeve allows for easy visual inspection of the fiber

Nov 05, 2025

Splice Protectors | Corning

Corning heat-shrink sleeves are compatible with most splice trays offered and are compatible with all heat-shrink ovens offered with

Sep 09, 2025

FAQS On Fusion Splicer Fiber Optic Sleeve Protection Guide

Always wait for the heat-shrinkable outer tube to finish shrinking, cooling, and shaping to avoid uneven heating,

Nov 14, 2025

Fiber Shrink Tube Fiber Splice Tube

By utilizing the Optic Fiber Heat Shrink Tube during the fusion splicing process, the integrity and reliability of fiber optic connections

Aug 19, 2025

Splice Tray, Heat-shrink Fusion Splices | Corning

Corning splice trays use proven designs and fiber organization technology to provide optimum physical protection for fusion and

Oct 09, 2025

Heat Shrink Fiber Optic Fusion Splice Protection Sleeve | 40mm

This 40mm heat shrink fiber optic fusion splice protection sleeve is a type of protection component which is designed to preserve

Mar 19, 2026

60mm Fusion Splice Sleeves Price & Datasheet

These fusion splice protection sleeves come standard with a clear outer tube for viewing the color of the optical fiber itself. Fusion

Oct 10, 2025

500pcs Dia 5mm 60mm Length Fiber Heat Shrink tubing fibers

□Protect Fiber Fusion Points□Clear sleeve make it easy to detect splice before shrinkage,The fiber heat shrink

Jul 10, 2026

Fusion Splice Sleeves

Product Description Fusion Splice Sleeves - 40mm - Single Fiber - 100/pack Spec Sheet Fusion Splice

Aug 10, 2025

200Pcs Fusion Heat Shrink Tubing, 60mm x 5mm x 3.8mm Fiber

VERSATILE COMPATIBILITY: This package comes with 200 pieces of fusion splice sleeves, measuring 60mm x 5mm x 3.8mm and

Feb 13, 2026

Splice Trays Using Heat-Shrink Splice Protectors

1. General This document describes the installation of optical fiber with both single-fiber and/or ribbon fiber heat-shrink fusion splices

May 17, 2026

40mm Fusion Splice Sleeves Price & Datasheet

40mm Fusion Splice Sleeves This splice protection sleeve design represents the industry's most reliable, highest quality fusion splice

Jul 11, 2026

Fiber Optic Fusion Protection Sleeves

Shop Now. International distributor for fiber optic components, equipment and accessories while providing invaluable technical

Dec 29, 2025

Pigtails

Explore Belden's fiber pre-term assembly solutions and discover how traditional Fusion Splice-On Connectors with Mass Fusion

Oct 13, 2025

ZoeRax Heat Shrinkable Tubing Fiber Optical Cable

□Protect Fiber Fusion Points□Clear sleeve makes it easy to detect splices before shrinkage, The fiber

Sep 26, 2025

Fiber Optic Splice Protection Sleeves & Heat Shrink Tubing

The consumables that protect every fusion splice in your network — single-fiber, ribbon, micro and FTTH drop-cable sleeves, splice

Mar 19, 2026

Amazon : Fiber Splice Sleeves

Premium 1200pcs Fiber Optic Splice Sleeves (2.6mm x 60mm) - Heat Shrink Tubing - 304 Stainless Steel - Enhanced Fusion

May 18, 2026

600pcs Fiber Optic Splice Fusion Sleeves, Fiber Heat Shrink Splice ...

About this item □Product Details□Fusion fiber optic cable heat shrinks tubing consists of stainless steel needle, inner fiber tube and

Jan 31, 2026

Splice Protectors | Corning

Corning offers a variety of splice protection choices to meet your needs. All the types of protection allow individual fiber access in the

Dec 23, 2025

Fiber Optic Fusion Splicer Heat Shrink Tubing, Double

Our design ensures anti-static and non-stick wall properties, providing strong protection

Contact Us

For more information, pricing, or custom solutions, please contact us:

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