

Protection tube for termination and splicing of ribbon optical cable



Article Overview

Furcation or breakout tubes are used to protect, organize, and manage ribbon optical fibers during termination and splicing, ensuring durability and proper routing into splice trays or connectors.

Purpose and Function

Protection tubes, also known as furcation tubes or breakout kits, serve several critical functions for ribbon optical cables:

- **Fiber protection:** They shield delicate fibers from mechanical stress, bending, and environmental damage as they exit the main cable sheath .
- **Organization:** Ribbons are separated into individual or grouped fibers, often color-coded, to simplify identification and routing into splice trays or patch panels .
- **Transition management:** They provide a controlled path for fibers from the cable to connectors or splicing points, reducing the risk of fiber breakage .

Types of Protection Tubes

- **Ribbon Fiber Breakout Kits:** These kits include a cable clamp, furcation tube assembly, and ribbon tube retainers. They are designed for installation in panels, enclosures, or equipment racks and can handle multiple ribbons (up to 72 fibers per kit) with cable diameters ranging from 0.250 to 0.705 inches .
- **High Fiber Ribbon Breakout Kits:** Suitable for high fiber count cables, these kits route each 12-fiber ribbon into individual color-coded tubes. They are compatible wi...

Article Content

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The FOA Reference For Fiber Optics

Since OTDRs have directional errors, testing may be required from both directions and averaged. Generally long concatenated

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Optical Fiber Heat Shrink Tube | Fiber Optic Heat Shrink Splice

LongXing optical fiber heat shrink tubes consist of a rod of reinforcing the splice, hot fusion tubing and cross-linked polyolefin. To

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Essential Guide to Fiber Optic Splice Tray Solutions

Discover essential fiber optic splice tray solutions with our comprehensive guide, designed

May 11, 2026

The FOA Reference For Fiber Optics

Fiber Optic Cables - Ribbon Fusion Splicing This virtual hands-on page will take you through the steps involved in the process. Look

Mar 02, 2026

How To Splice Ribbon Fiber | Instructional

In this instructional video, Test Equipment Product Manager, Bob Licari demonstrates

Jun 28, 2026

High Fiber Cable Ribbon Breakout Kit

Each 12-fiber ribbon in cable is routed into individual color-coded tubes for protection and transport into Clearview ® optimized

Jan 24, 2026

The art of ribbonizing: A step towards efficient fiber splicing

In the world of fiber optics, efficiency and adaptability are key. What makes ribbonizing especially valuable is its ability

May 30, 2026

18 Mass_Fusion_Splicing_of_Optical_Fiber_Ribbon_Cable_A

Abstract To build a fiber optic network, one may eventually join two fiber ends with a connector or fusion splicer. Ribbon cable can be

Sep 27, 2025

Ribbon Breakout Kits

The Splice Technologies Ribbon Fiber Cable Breakout Kit, (RFCB) series is designed to manage and

Apr 30, 2026

Fiber Splice Protection Sleeves

The ribbon fiber optic splice protection sleeves use ceramic components as the strengthen member, the whole splice sleeve typical

Jul 12, 2026

The FOA Reference For Fiber Optics

Most field singlemode terminations are made by splicing a factory-made pigtail onto the installed cable rather than terminating the

Jan 10, 2026

Outside Fiber Optic Cable Design | Corning

Corning discusses the considerations in outside fiber-optic cable design including loose tube, ribbon, and micro loose tube cabling.

Sep 28, 2025

SPLICE CLOSURE

The cable terminations shall withstand tensile stress, pressure, bending, and twisting that may result from normal operation and

Nov 24, 2025

Fusion Splice Protection Sleeve

Fusion splice protection sleeves are offered with stainless steel rod for single fiber or ceramic component as strength member for

Nov 05, 2025

Amazon : Fiber Splice Sleeves

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

Feb 09, 2026

Fiber Shrink Tube Fiber Splice Tube

This specialized tubing is designed to protect and secure optical fibers, providing a durable and reliable

Jul 03, 2026

Fusion-Protection Sleeves

Need to protect and reinforce a fiber optic splice? Our Fusion Protection Sleeves will help you seal splices against moisture and

Nov 04, 2025

Furcation Tubing Selection Guide

Explore fiber optic furcation tubing types for protecting and organizing sensitive fibers. Styles available for splicing, termination, and

May 10, 2026

Furcation Tube

Furcation Tube is used to build up bare optical fibers to protect them and to allow them to be terminated with connectors. Furcation is

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Fiber Optic Splice Protection Sleeves | Reliable Splice Guards

Discover premium fiber optic splice protection sleeves. Engineered for durability, our heat shrink sleeves ensure long-term protection

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SONGLIANG Bare Fiber Protection Tube 200m Optical Fiber Cable

Bare Fiber Protection Tube 200m Optical Fiber Cable Protective Sleeve Transparent 3mm 4mm 5mm 6mm Ribbon (OVAL12-core)

Nov 26, 2025

Fiber Optic Cable and Splice Closure Solutions | Corning

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

Dec 11, 2025

Fiber Splice Protectors

SMOUV Fiber Optic Splice Heat Shrink Protective Sleeve for 12 fiber ribbons (See Specs for packaging size and MOQ)

Apr 23, 2026

Amazon : Fiber Splice Sleeves

600pcs Fiber Splice Sleeves□2.6mm diam, 60mm Length□ Fusion Fiber Optic Cable Heat Shrinks Tubing 304 Stainless Steel PE

Dec 08, 2025

How to Ribbonize Fiber in Loose Tube Cable

The need to ribbonize loose-tube fibers and to perform multifiber splices is growing with the increased availability of mass fusion

Mar 11, 2026

LightTube 4.4 x 2.4mm Ribbon Breakout Tubing, TPE

Opticonx LightTube™ R120XX00 Ribbon Furcation Tubing for breaking out,

May 14, 2026

Cable Breakout Kits for Ribbon (12f to 288f)

Following simple instructions, the breakout kit will firmly secure a cable to protect routing fibers to any

Apr 07, 2026

Fiber Optic Cable Furcation Guide

A high-fiber furcation kit is a field-use breakout and protection kit used to transition ribbon or group optical fibers from

Contact Us

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