Specifications for fiber optic cable heat shrink tubing

Overview

Optical Fiber Heat Shrink Tube | Fiber Optic Heat A specially designed cross-linked Clear Heat Shrinkable tubing, with Clear fusion tubing liner, providing.

Key Takeaways

Fiber optic cables typically use heat shrink tubing with an inner diameter of 1.3 mm, outer diameter of 2.6 mm, and a length of 60 mm for standard fusion splice protection.Typical Sizes and Specifications

For single fiber optic splices, heat shrink splice protectors are commonly used. Standard dimensions include:

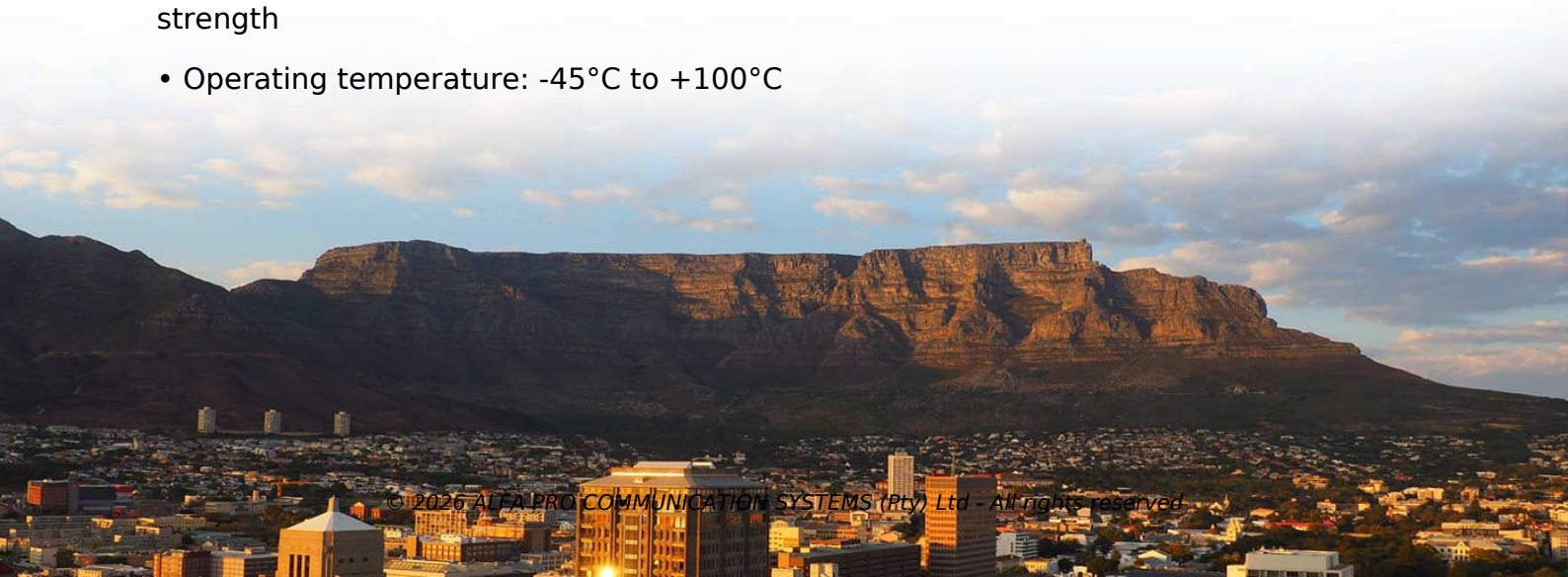
• Inner diameter: 1.3 mm

• Outer diameter: 2.6 mm

• Length: 60 mm

• Material: Cross-linked polyolefin with a stainless steel reinforcing rod for mechanical strength

• Operating temperature: -45°C to +100°C



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• Shrink temperature: Minimum 120°C for full recovery These dimensions provide a snug fit over the fiber splice while the reinforcing rod maintains mechanical integrity and prevents fiber breakage during installation .
Selection Considerations
• Measure the fiber diameter: Use calipers to measure the largest part of the fiber or splice to ensure the tubing can slide over it before shrinking .

• Shrink ratio: Most fiber optic heat shrink tubing has a 2:1 shrink ratio, meaning it will shrink to half its original diameter when heated .

• Length: The tubing should fully cover the splice and provide some overlap on both sides for protection. Standard 60 mm lengths are widely used for single fiber splices .

• Material properties: Polyolefin tubing with a stainless steel core is preferred for durability, moisture resistance, and maintaining optical transmission properties .
Application

Heat shrink tubing is used to protect fusion splices from mechanical stress, moisture, and environmental factors. The tubing is placed over the splice, heated to shrink, and the reinforcing rod ensures the splice remains rigid and secure. Clear tubing allows visual inspection of the splice before shrinking . By following these sizing guidelines and material recommendations, fiber optic splices can achieve reliable mechanical protection and long-term performance.

Article Content

Optical Fiber Heat Shrink Tube | Fiber Optic Heat

A specially designed cross-linked Clear Heat Shrinkable tubing, with Clear fusion tubing liner, providing

Fiber Optic Heat Shrinkable Splice Tube-Broalink

Rebuild the Coating of Fiber: Consist of a rod of reinforcing the splice, heat fusion tubing and cross-linked polyolefin, to provide

Fiber Optic Protection Splicing Sleeves Heat Shrink Tube

All drawings, weights and dimensions details, as well as tube and fibre colours in this document are only indicative and must not be

Heat Shrinkable Tubing for Fibre Optic Splice Closure

Manufactured from cross-linked polyolefin, this tubing combines UV stability, corrosion resistance, and high mechanical strength,

Fiber Shrink Tube Fiber Splice Tube

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Optic Fiber Heat Shrink Tube is a vital component used to safeguard fiber optic splicing elements. It is

Fiber Optic Closure Heat Shrink Tube – Maxwel

Heat Shrink Tube for fiber optic closure is made from heavy wall cross-linked polyolefin, coated with spiral

Heat Shrinkable Tube for Fiber Optic Cable Protection

This guide explores the technical specifications, applications, and advantages of using premium heat shrink solutions

Cable

3/8" Heat shrink Shrinks to .588" 2□1 heat shrink tube are UL and CSA certified, RoHS compliant, free of formaldehyde (HCHO),

ADW

It''s a heavy wall heat shrinkable tubing with inner spiral polyamide hot melt adhesive coated. The outer heavy wall can provide

ZoeRax Heat Shrinkable Tubing Fiber Optical Cable 60mm Dia Fusion ...

□Feature Attributes□Rebuild the Coating of Fiber: Consists of a rod of reinforcing the splice, heat fusion tubing, and cross-linked

Heat Shrink Tubing for Protecting Fiber Optic Cables

Learn about the benefits of using heat shrink tubing to protect fiber optic cables and telecommunication systems to

40mm Clear PE Heat Shrinkable Tube Fiber Optical

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Heat Shrink Tubing for Fiber Optic Closures

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Heat Shrink Tubing for Fiber Optic Closures Moodel:HSTFC Heat Shrink Tubing for Fiber Optic Closures (terminal box) is with a

Heat Shrink Tubing for Cable Insulation & Protection | Various Sizes

Heat shrink tubing is a versatile solution used for insulation, protection, and strain relief for cables, connectors, and other

Single Wall Heat Shrink Tubing

Product features Single wall heat shrink tubing Shield splice protection Electrical insulation Mechanical

Comprehensive Guide to Heat Shrink Tubing | Romtronic

Heat shrink tubing can be used in various colors, including clear, red, blue, white, black, and

3M Heat Shrink Tubing Selection Guide

Product description 3M Heat Shrink Tubing LMFP is a cross-linked, thin-walled, heat-shrinkable tubing ofering a high degree of

Heat Shrink Size Guide

Search by Cable Diameter or by Alpha Wire Cable Part Number. With the FIT® SIZING GUIDE, tubing product selection and

Heat Shrink

A tube with a lower shrink temperature will generally shrink faster. Products with higher shrink temperatures generally have higher

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Protect Fiber Fusion PointsClear sleeve makes it easy to detect splices before shrinkage, The fiber optic heat shrink tubes are

Heat Shrinkable Tubing for Fibre Optic Splice Closure

The COMPAQ CFOT Series is a medium-wall heat shrinkable tubing designed specifically for fibre optic splice closures in telecom,

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High-Quality TUBES for Reliable Insulation & Protection

Heat shrinkable tubing is an essential component in fiber optic splice closures, providing a secure and durable seal around the

Heat Shrink Sizing & Application Guide

What is Heat Shrink Tubing Heat shrink is plastic tubing that shrinks when heat is applied. It is used to seal water,

Fiber optic cable protection

Fiber optic heat-shrink sleeves provide the best fiber optic cable protection. With more than 50 years of experience with insulation

Optic Fiber Heat Shrink Tube

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How to select the correct size tubing

Heat Shrink Tubing, unlike many other products is designed to change shape when installed. Correctly

Heat Shrink Size Chart & Measurement Guide

Measuring your cabling to determine the right size heat shrink tubing to use is easy but it''s a step you don''t want to

Raychem

Products Connectors Energy Networks Products Fiber Optics Harnessing & Harness Components Heat Shrinkable Tubing

Single Wall Heat Shrink Tubing

Product features Single wall heat shrink tubing Shield splice protection Electrical insulation Mechanical protection for hoses Noise

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

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