# ZITHA TECH SPECIALTY CABLES (Pty) Ltd

# Fiber Optic Cable Installation Spacer



## Overview

Budco is a stocking distribution company for broadband tools, fiber optic tools and coax cable tools.

## Key Takeaways

Fiber optic cable spacers are devices used to protect and properly position cables during installation, preventing damage from clamps, bending, or compression.Purpose of Cable Spacers

Cable spacers are designed to maintain proper separation between the cable and hardware, such as clamps or supports, during installation. They prevent crushing, kinking, or excessive bending of fiber optic cables, which can degrade signal performance. Spacers also allow the cable to expand or move within loops without contacting rigid hardware, reducing stress on the fiber and extending cable life (Budco GatorGuard) .

Types of Fiber Optic Cable Spacers
• GatorGuard Cable Spacer: Protects cables from three-bolt clamps and allows mid-span movement over time. It can be attached using standard lashed cable supports or cable ties .

• Modular Cable Spacers (TCP360 Deltec): These spacers provide modular support for multiple cables, ensuring consistent spacing and alignment during aerial or conduit installations .

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• Threaded and Unthreaded Fiber Spacers: Available from suppliers like McMaster-Carr, these spacers can be used in custom mounting setups or for precise alignment in enclosures or racks .

• Conduit and Bore Spacers: Condux International offers spacers for long-haul or fiber-to-the-premises installations, including bore and open trench spacers, which guide cables through ducts or conduits while preventing abrasion or compression .
Installation Considerations
• Attachment: Spacers can be secured with cable ties, lashed supports, or integrated into modular mounting systems.

• Bend Radius: Always maintain the cable's minimum bend radius to avoid signal loss or fiber breakage.

• Tension: Avoid excessive pulling force; spacers help distribute tension along the cable path.

• Aerial Installations: When installing lashed aerial cables, spacers prevent direct contact with clamps and allow safe looping for slack management .
Benefits
• Protects fiber optic cables from mechanical damage.

• Maintains proper spacing and alignment.

• Reduces stress on cables during thermal expansion or movement.

• Facilitates easier maintenance and future upgrades. Using the correct type of fiber optic cable spacer is essential for reliable, long-term performance in both aerial and conduit installations, ensuring the cable remains protected and signal integrity is preserved.

## Article Content

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cables that may sag near the fiber optic cable. Determine the clearances between the proposed fiber optic cable plant and existing

Spacers & Straps

Used in lashed cable construction to provide a separation between the cable and strand. A slot is provided to guide and secure

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the straps and spacers used for drip loops and other fiber optic cable handling purposes should be hand-tight only. the strap and

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These service loops should be stored neatly, coiled inside handholes or manholes, on wall fixtures indoors or lashed to messengers

Fiber Optic Cable Installation and Handling Instructions

Introduction Fiber optic cables can be easily damaged if they are improperly handled or installed. It is imperative that certain

How To: Install Fiber Optic Cable for Success –

Learn the best practices for installing fiber optic cable, from patch cords to bulk distribution

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a fiber in an installed fiber optic cable. The picture, called a signature or trace, contains data on the length of the fiber, loss in fiber

Looking Good! Guidelines for aerial fiber optic cable

Discussions with the Fiber Optic Association''s (FOA) worldwide network of technical

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Aerial Cable Placing Procedure

2. Introduction This practice covers the basic guidelines for installation of aerial fiber-optic cable. It is intended for personnel with prior

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Fiber Cable Mechanical Splicing Guide Using Fiber Splice Trays

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The Fiber Optic Association, Inc.

The optical time domain reflectometer (OTDR) uses optical radar-like techniques to create a picture of a fiber in an installed fiber

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