ZITHA TECH SPECIALTY CABLES (Pty) Ltd

Unprotected fiber optic cable models



Overview

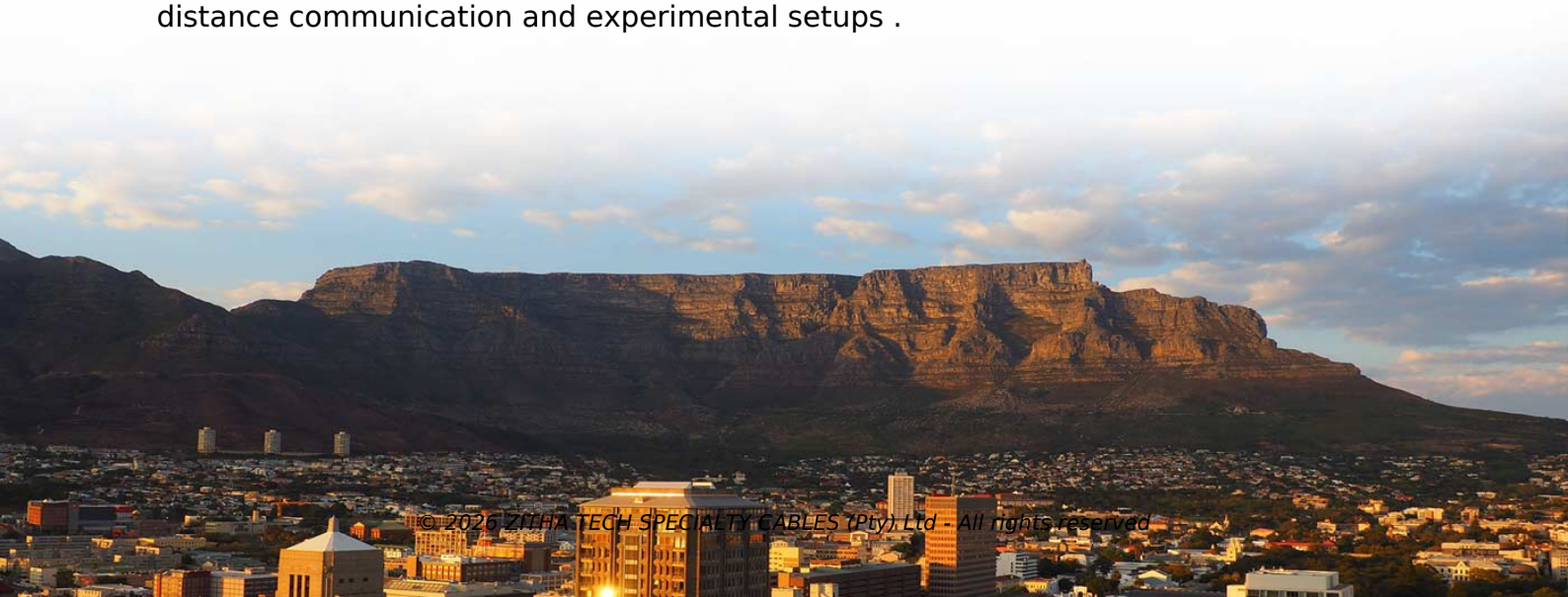
Our easy-payout boxes for Category 5e and Category 6 cables were designed with direct input and feedback from users.

Key Takeaways

Unarmored fiber optic cables are lightweight, flexible cables without metallic armor, ideal for indoor or protected environments.Types of Unarmored Fiber Optic Cables
• Tight-Buffered Bare Fiber This model features a tight buffer coating directly applied to each optical fiber, enhancing durability and flexibility. It is suitable for indoor installations, laboratory use, and short-distance connections where bending and handling are frequent .

• Bare Ribbon Fiber Multiple fibers are arranged in parallel ribbons without individual protective coatings. This design allows efficient splicing and termination, making it ideal for high-density installations such as data centers .

• Bare Plastic Optical Fiber (POF) Made from transparent polymer materials instead of glass, bare POF is highly flexible and easy to terminate. It is commonly used for short-distance communication and experimental setups .



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• Standard Unarmored Fiber Cable These cables include the core fibers, a protective buffer, strength members like aramid yarn, and an outer jacket (PVC or LSZH), but no metallic armor. They are lighter, more flexible, and easier to install than armored cables, making them suitable for indoor backbones, enterprise LANs, and FTTH drop cables .
Applications
• Indoor Deployments: Ideal for building backbones, office networks, and data center interconnects where physical protection is provided by walls, ceilings, or conduits .

• Research and Development: Used in laboratories for optical experiments due to their flexibility and ease of handling .

• FTTH Installations: Drop cables for fiber-to-the-home deployments often use unarmored designs to reduce cost and simplify installation .
Advantages
• Lower Cost: Absence of steel or corrugated armor reduces material and manufacturing expenses .

• Ease of Installation: Lightweight and flexible, they navigate tight bends and congested cable trays more easily .

• Compact Footprint: Smaller diameter allows denser packing in ducts and cable management systems, which is valuable in space-constrained environments .
Unarmored fiber optic cables are best suited for environments where physical abuse is minimal and cost, flexibility, and ease of installation are priorities. For outdoor or high-risk areas, armored alternatives are recommended to prevent damage from rodents, construction, or harsh weather.

Article Content

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Elfcam - Invisible/transparent fiber optic cable, single-mode, loss

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An optical fiber patching cabinet. The yellow cables are single-mode fibers; the orange and blue cables are multi-mode fibers:

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Belden''s extensive line of indoor and outdoor cable products is offered in tight buffer and loose tube

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Understanding and Selecting Optical Fibre and Cable

OPTICAL FIBRE AND CABLE This document will provide an understanding of optical fibre, optical fibre cable (OFC), application

Fiber Optic Cable Types – Multimode and Single Mode

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Some Fiber Basics: Transmitting Signals with Light Digital Light Signals – Lasers inside the equipment generate the light that the

Single-mode optical fiber

In fiber-optic communication, a single-mode optical fiber, also known as fundamental- or mono-mode, is an optical fiber designed

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Discover how to choose the right fiber optic cables for your network. Learn about fiber types, cable constructions,

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Types of Fiber Optic Cables: Complete Classification

In today''s digital era, a reliable fiber optic cable network forms the backbone of

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A fiber optic cable (frequently shortened to “fiber cable”) is a specialized transmission medium crafted to carry data as

FS

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Fiber Optic Cable Types: Comprehensive Guide

Explore the different types of fiber optic cables and understand which type suits your specific needs for speed, distance,

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