4-core optical fiber cable Gyta



Overview

This armored optical cable is engineered with 4 single-mode fibers housed within a water-blocked loose tube, wrapped in aluminum tape for enhanced mechanical strength and moisture resistance.

Key Takeaways

A 4-core optical fiber cable contains four individual optical fibers, designed for high-speed data transmission in both indoor and outdoor environments.

Overview

A 4-core optical fiber cable consists of four separate optical fibers enclosed within a protective jacket. These cables are commonly used for FTTH (Fiber to the Home), GPON networks, and industrial or outdoor installations. They provide reliable, high-speed data transmission, often supporting bandwidths up to 100 Gbps depending on the fiber type and installation environment.

Construction

Typical 4-core fiber optic cables include the following components: Optical fibers: Single-mode (OS2) or multi-mode fibers for light transmission. Loose tube or PBT tube: Encases the fibers with a jelly compound to protect against moisture and mechanical stress. Strength members: Multi-strand aramid yarn or fiberglass rods to provide tensile strength.

Outer jacket: PE or TPU material for protection against abrasion, UV, water, and temperature extremes. Optional armor: Metal steel or stainless steel mesh for enhanced durability in harsh outdoor environments.

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Types

Armored 4-core cables: Designed for outdoor use, resistant to rodents, mechanical damage, and extreme weather conditions. Unarmored 4-core cables: Suitable for indoor or conduit installations where physical protection is less critical. Drop cables: Round, flexible cables used to connect the end user to the network, often in FTTH applications.

ApplicationsFTTH and GPON networks: Connecting homes and businesses to high-speed fiber networks. Industrial and outdoor installations: Roads, construction sites, and harsh environments requiring robust cables. Data centers and LANs: Short-distance high-speed connections within buildings or campuses.

Installation and Testing4-core fiber cables are designed for easy installation with LC connectors for plug-and-play connectivity. They can be installed overhead, direct burial, or in conduits. Testing is typically performed using OTDR (Optical Time Domain Reflectometer) to verify splice loss, measure length, and detect faults.

Pricing and Suppliers

In India, 4-core fiber optic cables are available from multiple suppliers, with prices starting around ₹20 per meter for standard cables, while armored or industrial-grade cables may cost more. Leading manufacturers include Finolex, Jera Line, and various IndiaMART suppliers. Key AdvantagesHigh-speed, low-loss data transmission.

Durable and resistant to environmental stress. Flexible installation options for indoor and outdoor use. Suitable for both residential and industrial applications.

Article Content

FIBERHOME GYTA-4B1.3 Outdoor Armored Optical Cable | 4-Core

This armored optical cable is engineered with 4 single-mode fibers housed within a water-blocked loose tube, wrapped in aluminum tape for enhanced mechanical strength and moisture resistance.

GYTA 4 Cores G.652D

Buy GYTA 4 Cores G.652D Fiber Optic Cable from Zion Communication. This

GYTA-4 4-core 8-core 12 core 24 core communication optical cable

Aluminum strip longitudinal cladding twisted type optical cable (GYTA) Communication use of metal reinforced components, loose layer twisted filling type, aluminum polyethylene bonded sheath

GYTA Optical Cable 4-Core Outdoor Single-Mode

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The loose sleeve (and filling rope) is twisted around the center to form a compact and circular cable core, and the gaps inside the cable core are filled

GYTA 4 Core Single Mode Fiber Optic Cable

GYTA 4 Core Single Mode Fiber Optic Cable by Ebocom offers loose tube, aluminum tape armor, and PE jacket for outdoor use. Durable, anti-UV, and waterproof.| Alibaba

GYTA Cable Buying Guide: Specs, Pricing & Sourcing Tips

Compare GYTA cable specs (4–288 cores, -40°C to +70°C, APL sheath), bulk pricing ($0.45–$0.59/m), customization options, and key sourcing criteria for 2026 deployments.

Outdoor Single Mode 4 Core Ofc Cable GYTA Fiber Optic Cable

GYTA single-armored cables feature stranded loose tube filled with a water-resistant filling compound. A steel wire, sometimes sheathed with polyethylene (PE) for cable with high fiber count, locates in the

Outdoor Single Mode Fiber Optic Cable GYTA 4/6/8/12

Low MOQ Outdoor Single mode Fiber Optic Cable GYTA 4/6/8/12 Core Communication Cabe. Features: Up to 288 fibers. Loose tube gel-filled

Alcatel Cable Guide for Submarine & Power Applications

Explore Alcatel Submarine Networks'' cable portfolio: submarine comms, offshore wind power cables, OPGW/ADSS utility solutions, and fiber sensing tech—plus 2026 market trends and sourcing options.

10 Types of Fiber Optic Cable Explained: Selection

Explore the top 10 fiber optic cable types for 400G/800G networks. From ADSS to MPO, learn technical specs, applications, and how to choose the right fiber for

Fiberhome outdoor single-mode optical cable gyta: outdoor armored fiber ...

In short, the fenghuo outdoor single-mode optical cable gyta is a premium fiber optic cable product that combines high performance, high reliability, and ease of installation. Whether you are a

GYTA Fiber Optic Cable (Aerial and Duct) Types Prices & Spec

This fiber optic cable features the good mechanical and temperature performance. GYTA is with high strength loose tube that is hydrolysis resistant and the optical cable filling materials ensure high

GYTA53 Fiber Optic Cable (Direct buried)

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Industrial-grade GYTA53 Outdoor Fiber Cable. Features Double Jacket (PE) and Double Armor (Aluminum + Steel) for direct burial applications. 100% Rodent-proof and moisture-resistant.

Promotion GYTA Fiber Optic Cable Outdoor Armored Single Mode 12 Core ...

Our monthly production capacity has been over 2,000km for fiber cables. With an excellent management system, we passed ISO9001:2008 in 2020. In December, 2018, Alibaba group verified us. We also

Huaneng GYTA53Double-Jacketed Direct-Buried Optical Fiber Cable 4

Huaneng GYTA53Double-Jacketed Direct-Buried Optical Fiber Cable 4/8/24/36/48/96/144 Cores Heavy-Armored G652D Fiber Made

Best Optical Cable Manufacturing Suppliers

Best Optical Cable Manufacturing Suppliers Discover a curated list of global optical cable manufacturers specializing in fiber optics, high-speed data transmission, and custom cabling solutions to meet

288 Core Optical Fiber Cable

Discover 288 core optical fiber cables with high-density core count for FTTH and telecom networks. Ideal for long-distance, high-speed data transmission.

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Fiberhome fiberhome national standard 4-core outdoor optical cable: a high-speed network infrastructure artifact! the "stable person" in the fiber optic industry is here! Are you still struggling

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