Gyta53 series optical cable



Overview

GYTA53 Fiber Optic Cable | Double Armored Loose TubeGYTA53 Fiber Optic Cable is ideal for direct burial, duct, and aerial installations in backbone network.

Key Takeaways

GYTA53 is a loose tube, single steel wire armored outdoor optical cable designed for high-strength, waterproof, and long-distance communication applications.

Construction and Structure

The GYTA53 cable features a loose tube design with high-modulus plastic tubes filled with a water-blocking compound to protect the fibers. A central steel wire strength member provides mechanical stability, sometimes coated with polyethylene (PE) for additional fiber support. Loose tubes and fillers are stranded around the central member to form a dense, round core.

The core is covered with an Aluminum Polyethylene Laminate (APL) layer, a thin PE inner sheath, a corrugated steel tape (CST) armor, and a hard PE outer sheath, offering mechanical strength, waterproofing, and UV resistance for outdoor use. Fiber and PerformanceGYTA53 typically uses G. 652D single-mode fibers with a 9/125µm core/cladding diameter, supporting low attenuation (~0.

22 dB/km at 1550 nm) and low chromatic dispersion (~18 ps/(nm·km)),. Fiber counts range from 2 to 288 fibers, with a maximum of 12 fibers per PBT tube. The cable is suitable for long-distance communication, backbone networks, CATV, and computer networks.

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Mechanical and Environmental Properties

Tensile strength: Exceeds 1500 NCrush resistance: 3000 N/10 cmOperating temperature: -40°C to +60°CMinimum bending radius: 20 times the cable diameterWater-blocking compound prevents moisture intrusionCorrugated steel tape armor provides crush and rodent protectionPE outer sheath ensures UV resistance and durability ApplicationsGYTA53 is designed for direct burial in low-stress environments and duct installations, offering flexibility for long-distance pulls. Its robust construction makes it suitable for outdoor installations, including areas with high moisture, temperature variations, or potential mechanical stress.

It is also used in inter-city communication networks and high-capacity backbone systems.

Summary

The GYTA53 optical cable combines mechanical strength, water resistance, and high fiber capacity, making it ideal for outdoor, long-distance, and high-performance communication networks. Its loose tube design, steel wire armor, and protective sheaths ensure durability, signal integrity, and reliable operation in harsh environments.

Article Content

GYTA53 Fiber Optic Cable | Double Armored Loose Tube

GYTA53 Fiber Optic Cable is ideal for direct burial, duct, and aerial installations in backbone networks, metropolitan areas, railways, highways, and infrastructure projects requiring double armored

GYTA53 Fiber Optic Cable (Direct buried)

Deploy robust fiber networks underground with our GYTA53 Direct Buried Fiber Optic Cable. Featuring a Double Jacket (PE) and Double Armor (Aluminum + Steel) construction, this cable offers superior

GYTA53 Cable Buying Guide for 5G & Rural Broadband

The GYTA53 cable is a highly durable, double-armored outdoor fiber optic cable designed specifically for direct burial in harsh environments Bolein Zion-Communication.

GYTA53 Loose Tube Layer Stranded Single Steel Wire

This cable is made up of loose tubes of high-strength plastic with each one filled with a water-blocking compound to protect the fibers. The strength member of steel

Single Mode GYTA53 Tight Buffer Fiber Optic Cable

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Single Mode GYTA53 Tight Buffer Fiber Optic Cable The GYTA53 cable offers strong connections. You get fast data transfer, reaching speeds of up to 100

GYTA53 fiber optic cable suitable for outdoor-Bolein

The characteristics of optical fiber, such as fast transmission speeds and resistance to interference, make it an excellent choice for diverse networking needs. By

GYTA53 Optical Cable

The optical GYTA53 cable is the armored fiber optic cable of the steel tape for direct burial. The GYTA53 fiber cable consists of a loose tube that twists around the central resistance element.

GYTA53 Directly Buried Optical Cable

Loose tube style, optical fiber cable with metallic central strength member of steel wire/strand and moisture barrier inner sheathed. Cable protected by a corrugated

Gyta53 optical cable

The GYTA53 optical cable is a high-performance fiber optic cable that offers a wide range of advantages over traditional copper cables. It is designed to withstand harsh environmental

Direct Buried GYTA53 Fiber Optic Cable Double Jacket Armored

Direct Buried GYTA53 Fiber Optic Cable Double Jacket Armored Steel Tape Anti-Rodent Outdoor 24 48 Core Single Mode Optical Cable No reviews yet $0.52 1,000 - 9,999 meters

Fiber Optic Cable Manufacturer & Supplier In China

Independent Research And Production Of Optical Cables ZTO Fiber Optic Cable Company is a national high-tech enterprise specializing in the

Comprehensive Guide to Fiber Optic Cable Pricing: Cost Analysis and ...

Explore detailed insights into fiber optic cable pricing, including cost factors, quality considerations, and long-term value benefits for modern telecommunications infrastructure investments.

Harsh Environment Fiber Optic Cable Solutions for Extreme

Explore how to select the right fiber optic cable for challenging environments including high temperatures, extreme cold, salt spray, humidity, underground ducts, and direct burial. Learn

Outdoor Fiber Optic Cable — ADSS, Armored | DYS

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Outdoor Fiber Optic Cable DYS outdoor fiber optic cables are built for harsh-environment routes — direct burial, aerial, duct and self-supporting. The range spans steel-armored and all-dielectric ADSS

Xi''an Fiber Optic Cable Supply FiberHome Outdoor Buried Fiber Optic ...

The fiber optic cable is protected by critical components such as corrosion-resistant and high Young''s modulus phosphated steel wire and full section water-resistant structure. The fiber optic cable is

Armored Fiber Optic Cable GYTA53 Outdoor Direct Burial Single

Armored Fiber Optic Cable GYTA53 Outdoor Direct Burial Single Mode 96 Core Optical Fiber Cable No reviews yet $0.14-1.90 Minimum order quantity: 1,000 meters

Armoured Optical Fiber Cable

2 4 6 8 24 32 48 84 96 144 288 cores Armoured Optical Fiber Cable GYTA GYTA53 GYTS53 by Shihe offers robust fiber optic solutions for underground use.|

Direct Burial GYTA53 Optical Cable Single Mode 48 Core Armored

Direct Burial GYTA53 Optical Cable Single Mode 48 Core Armored Outdoor Fiber Optic Cable No reviews yet $0.16-2 Minimum order quantity: 1,000 meters

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