

GYTA53 Optical Cable Structure



AI Overview

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 Performance

GYTA53 typically uses G.652D single-mode fibers with a 9/125 μ m 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 .

Mechanical and Environmental Properties

- Tensile strength: Exceeds 1500 N
- Crush resistance: 3000 N/10 cm
- Operating temperature: -40°C to +60°C

Article Content

GYTA53 The Armored Buried Optical Cable

GYTA53 Product Structure: Product Description: GYTA53 (Loose tube stranding, Metal strength member, Flooding jelly compound,

Single Mode GYTA53 Tight Buffer Fiber Optic Cable

Single Mode GYTA53 Tight Buffer Fiber Optic Cable The GYTA53 cable offers strong connections. You get fast data transfer,

The Difference Between Buried Optical Cable GYXTW53, GYTY53, GYTA53

Buried optical cable GYXTW53 structure: "GY" outdoor communication cable, "x" central bundled tube structure, "T" ointment filling,

GYTA53 Fiber Optic Cable Specifications

GYTA53-4F Fiber optic cable specification -GL - Free download as PDF File (.pdf), Text File (.txt) or read online for free. This

Comparing GYTA53 vs. GYTS Fiber Optic Cables

While both cables are used in telecom and data networks, their structural differences make them suitable for unique

GYTA53 Fiber Optic Cable | Double Armored Loose Tube

The GYTA53 Fiber Optic Cable is a high-strength outdoor communication cable specifically designed for direct burial applications

GYTA53 vs GYTY53: Direct Buried Optical Fiber Cable Structure ...

Understand the structural and functional differences between GYTA53 and GYTY53 direct buried optical cables. This

GYTA53 Fiber Optic Cable (Direct buried)

The GYTA53 Fiber Optic Cable is the industry standard for Direct Buried applications where maximum protection is required. Unlike

GYTA53 Outdoor armored fiber optic cable | Fiberlink

The GYTA53 optical fiber cable is the steel tape armored outdoor fiber optic cable used for direct buried The tubes are filled with a

Gyta53 Outdoor Optical Cable

Advantage Analysis of GYTA53 Outdoor Optical Cable GYTA53 is a type of outdoor optical cable designed for long

GYTA53, GYTA53 fiber optic cable

GYTA53 Optical Cable Features Full cross-sectional water-blocking structure with special oil paste filling in the loose tube to ensure

Outdoor Fiber Optic Cable GYTA53

Outdoor Fiber Optic Cable GYTA53 ·Good mechanical and temperature performance
·High strength loose tube that is hydrolysis

GYTA53 Fiber Optic Cable Specifications

This document describes an outdoor optical fiber cable for communication networks. The cable contains metallic strength members,

GYTA53 fiber optic cable suitable for outdoor-Bolein

GYTA53 is double armored and double sheathed outdoor cable tiable for airial, pipeline laying method

The structure and characteristics of GYTA53 fiber optic cables

GYTA53 fiber optic cables contain a central exposed optical fiber surrounded by armor material, and there is also an

GYTA53 | PDF | Optical Fiber | Building Engineering

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GYTA53 fiber optic cable suitable for outdoor-Bolein

The characteristics of optical fiber, such as fast transmission speeds and resistance to interference, make it

Direct buried Cable GYTA53-12/24B1

The unique second coating and stranding technology provide the fibres with enough space and bending endurance, which ensure

GYTY53 12-Core Fiber Cable Specs | PDF | Optical Fiber | Cable

This document provides the product specification for a 12 core steel fiber optic cable. It describes the cable's components such as

What Is GYTA53 Fiber Optic Cable?

Outdoor GYTA53 Fiber Optic Cable with Corrugated Steel Armoured Tape, 2~432 fibers, central strength member (steel), jelly filled,

Fiber Optic Cable Guide: Codes, Types & Structures Explained

Complete fiber optic cable handbook: decode GYTA53, GYFTCY, ADSS & all Chinese codes, full construction types, standards,

Direct Burial Fiber Optic Cable GYTA53

2. Upon customer's request, cables with longitudinal color strip on outer sheath can be offered. More

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