

Gyta53 Optical Cable Technical Parameters



Overview

This document provides the technical specifications for an optical fibre cable for direct buried installation.

Key Takeaways

The GYTA53 is a single-mode, armored, outdoor optical fiber cable designed for direct burial and duct applications, featuring high mechanical strength, water-blocking, and environmental resistance.

- Fiber Type: G.652D single-mode, 9/125 μm core/cladding diameter .
- Fiber Count: Ranges from 2 to 288 fibers, with a maximum of 12 fibers per PBT loose tube .
- Loose Tube: Jelly-filled, SZ-stranded around a central metallic strength member, typically steel wire of 1.6 mm diameter .
- Filling Compound: Water-blocking gel fills the tube and core apertures to prevent moisture ingress .
- Inner Sheath: Aluminum tape (0.2 mm thick) with polyethylene (PE) inner sheath (1.5 mm thick) for moisture barrier .
- Armor: Corrugated steel tape (0.15 mm thick) provides rodent resistance and mechanical protection .

- Outer Sheath: Medium-density polyethylene (PE), 2 mm thick, for impact and environmental protection .

Mechanical and Environmental Properties

- Tensile Strength: Withstands over 1500 N .
- Crush Resistance: 3000 N/10 cm .
- Bending Radius: Minimum 20 times the cable diameter (20D) during installation .
- Operating Temperature: -40°C to +60°C .
- Cable Diameter: Approximately 14.5 mm .

Optical Performance

- Attenuation: ~0.22 dB/km at 1550 nm wavelength .
- Chromatic Dispersion: 18 ps/(nm·km), .
- Zero Dispersion Wavelength: Around 1310 nm .

Applications

- Installation: Suitable for direct burial, duct, aerial, and indoor floor installations .
- Use Cases: Backbone networks, inter-city communication, high-speed data transmission up to 100 Gbps .
- Protection Features: Water-blocking gel, armored steel tape, and double-jacket structure ensure durability in harsh environments and prevent rodent damage . The GYTA53 cable is engineered for high-capacity, long-distance optical networks, combining mechanical robustness with excellent optical performance, making it ideal for outdoor and direct-burial applications.

Article Content

Direct buried Cable GYTA53-12/24B1

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

GYTA53 Fiber Optic Cable | Double Armored Loose Tube

The finished GYTA53 Fiber Optic Cable undergoes comprehensive testing to IEC 60794 standards. Routine tests include optical

GYTA53 | PDF | Optical Fiber | Building Engineering

This document provides the technical specifications for an optical fibre cable for direct buried installation. It describes the cable

Directly Buried Optical Cable

MD-001/A2 Fiber Optical Cable GYTA53 is a heavy-duty double-armored, double-sheathed outdoor fiber optic cable designed for

Inside Underground Optical Fiber Cable Gyta53: Technical Details ...

This guide explores the key variants of the Gyta53 cable, highlighting their structural features, benefits, and ideal use

GYTA53 Outdoor Optical Cable

GYTA53 Outdoor Cable used for Double-jacket structure provide the cable nice properties of moisture resistance and crush

Outdoor Armored Direct Buried Cable GYTA53 | FS

Direct buried cable can be buried directly into the ground in a trench or using a vibratory plow. Except for with great water-blocking

GYTA53 24-144 Core Outdoor Optical Fiber Cable

It consists of a loose tube that is twisted around the central resistance element, the GYTA53 fiber cable has the inner shell of the PE,

GYTA53 24-144 Core Outdoor Optical Fiber Cable

Product Description GYTA53 outdoor fiber optic cable, is also called double armored and double sheathed multi loose tube aluminum

GYXTW OUTDOOR FIBER CABLE

GYTA53 1.1 SCOPE This specification covers the design requirements and performance standard for the supply of optical fiber

How to Choose the Right Outdoor Underground Fiber Optic Cable for

Learn how to choose the right fiber optic cable for duct or direct burial installation. Step-by-step guide comparing

The structure and characteristics of GYTA53 fiber optic cables

The armor material of GYTA53 optical cable is made of double-layer steel wire and aluminum-plastic composite tape,

Single Mode GYTA53 Tight Buffer Fiber Optic Cable

GYTA53 connects cities across great distances. Find the cable ensuring high-speed data exchange, supporting multiple terabits per

GYFTA53 Optical Cable | TeleTechno Communications

GYTA53 outdoor fiber optic cable is a loose tube style, with the non-metallic central force member of FRP and peripheral force

Outdoor Armored Direct Buried Cable GYTA53 | FS

Double-Armored Double-Jacket Direct Buried Cables-GYTA53 GYTA53 uses metal strength member as central strength member to

Double Armored and Double Sheathed Stranded Outdoor Optical Cable GYTA53

Double Armored and Double Sheathed Stranded Outdoor Optical Cable GYTA53 The fibers, are positioned in a loose tube made of

Outdoor Fiber Optic Cable GYTA53

The bulk cargo of optical fiber equipment can be transported by air or by sea; the whole container can be transported by sea. The

GYTA53 fiber optic cable suitable for outdoor-Bolein

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

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

