

Gytats optical cable



Overview

This Specification covers the design requirements and performance standard for the supply of optical fibre cable in the industry.

Key Takeaways

GYTZA optical cable is a flame-retardant, loose-tube, layer-stranded fiber optic cable designed for outdoor and high-risk environments. Structure and Materials

GYTZA cables consist of optical fibers housed in loose tubes made of high-modulus, hydrolysis-resistant materials, filled with a thixotropic gel for moisture protection and reliable fiber performance . The loose tubes are stranded around a central metallic strength member, forming a compact and mechanically stable core. The cable is armored with laminated aluminum tape and extruded with a Low Smoke Zero Halogen (LSZH) outer sheath, providing fire safety and environmental protection . Water-blocking materials are included to prevent moisture ingress.

Key Features

- **Flame-Retardant and Fire-Safe:** LSZH sheath ensures low smoke and halogen-free performance, suitable for high-risk fire zones .
- **Durability:** Resistant to hydrolysis, moisture, and environmental challenges, making it suitable for outdoor duct installations, tunnels, and underground networks .
- **Mechanical Stability:** High-modulus materials and stranded design provide excellent tensile strength and flexibility, allowing installation in complex environments .

- **Temperature Range:** Operates reliably in extreme temperatures from -40°C to +70°C .
- **Water-Blocking:** Gel-filled tubes and water-blocking materials protect fibers from water ingress, ensuring long-term performance .

Applications

GYTZA cables are ideal for outside plant networks and areas requiring flame resistance, including:

- Urban communication networks and metro backbones
- Tunnel and underground installations
- Industrial and chemical zones
- Campus and enterprise networks
- Rural and remote long-distance connectivity
- Emergency communication networks and public infrastructure projects

Optical and Technical Performance

GYTZA cables can accommodate single-mode or multi-mode fibers, with fiber counts and sizes customizable according to network requirements. The design ensures low attenuation, high transmission performance, and reliable fiber protection over long distances . In summary, GYTZA optical cables combine flame-retardant safety, mechanical durability, and environmental resistance, making them suitable for demanding outdoor and high-risk installations where both performance and safety are critical .

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Recommendation ITU-T G.652 (08/2024)

This document outlines the specifications for a single-mode optical fiber and cable designed for use around the 1310 nm zero

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Gyta optical cable

The GYTA optical cable is a type of fiber optic cable that is widely used in telecommunication

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GYFTY outdoor fiber optic cable is a non-metallic cable used for the power transmission system, the excessive areas of thunder and

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