Gydts type optical cable

Overview

Need high-density fiber cabling? Compare ribbon optical cable types like GYDTA, GYDXTW, and GYDGA. Learn how to select the right armored or dielectric cable for your application.

Key Takeaways

GYDTS optical cable is a ribbon-type, loose-tube fiber optic cable with corrugated steel tape armoring, designed for high-density, outdoor installations in aerial, duct, or direct-buried environments. Structure and DesignGYDTS cables consist of 4, 6, 8, 12, or more fiber ribbons placed inside a loose tube made of high-modulus material, which is filled with a water-blocking gel to prevent moisture ingress. A central metal strength member provides structural support, while the loose tube and optional filler ropes are helically stranded around it to form a compact, circular cable core.

The cable is further reinforced with double-sided corrugated steel tape (PSP) and encased in a polyethylene (PE) sheath, offering excellent mechanical protection and environmental resistance.

Key Features

High fiber density: Ribbon configuration allows mass fusion splicing of multiple fibers simultaneously, improving installation efficiency. Waterproof and moisture-resistant: Loose tube filled with thixotropic gel and water-blocking fillers ensure reliable performance in wet conditions. Mechanical strength: Corrugated steel tape armoring enhances crush resistance, rodent protection, and overall durability.

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Flexibility and ease of installation: Loose tube design allows easy drawing, splicing, and cleaning, reducing installation costs. Standards compliance: GYDTS cables meet YD/T 981. 3-2009 and IEC 60794-1 standards for optical fiber ribbon cables.

ApplicationsGYDTS optical cables are suitable for aerial, duct, and direct-buried installations, particularly in high-density networks such as metropolitan area networks (MANs), backbone networks, and fiber-to-the-home (FTTH) or fiber-to-the-building (FTTB) deployments. Their design supports long-distance transmission and high-speed data transfer, making them ideal for modern telecommunications infrastructure.

Advantages

Low attenuation and dispersion for reliable signal transmission. Accurate geometric dimensions of fiber ribbons for efficient splicing. Excellent temperature stability and flame retardancy.

Customizable fiber counts and armoring options to meet specific project requirements. In summary, GYDTS optical cable combines high-density ribbon fibers, loose-tube flexibility, and armored protection, making it a robust solution for outdoor and high-capacity fiber optic networks.

Article Content

Outdoor Ribbon Fiber Optic Cable Guide: GYDTA, GYDTS,

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GYDTS Ribbon Fiber Optic Cable | Stranded Loose Tube Steel-PE

GYDTS ribbon fiber optic cable is a stranded loose tube outdoor optical cable designed for access networks and high-fiber-count communication applications. The optical fiber ribbons are placed

GYDTS Loose Tube Layer Stranded Lightweight Fiber

Description GYDTS optical cable features 4, 6, 8, or 12-core fiber ribbons placed within a loose tube made of high-modulus material, filled with thixotropic water

Stranded Loose Tube Light-armored Ribbon Fiber

A steel wire, sometimes sheathed with polyethylene (PE) for cable with high fiber count, locates in the center of core as a metallic strength member. Tubes (and

GYDTS Loose Tube Stranded Optical Fiber Ribbon Cable

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GYDTS fiber optic cable is with corrugated steel tape armored and it is a ribbon type fiber cable which is suitable for installation in aerial or duct environment especially where high density fibers are expected.

Stranded Loose Tube Optical Fiber Ribbon Cable

The Bynet GYDTA and GYDTS ribbon fiber optic cables are engineered for high-capacity outdoor transmission systems requiring exceptional fiber density and

GYDTS Fiber Optic Cable

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Fiber Optic Cable Types: A Complete Guide

The plethora of fiber optic cable types can seem overwhelming, but choosing the right cable for the job is important. Read on to learn what fiber optic

GYTS Fiber Optic Cable

GYTS Fiber Optic Cable is the outdoor fiber optic cable type used for duct and aerial applications. We supply single mode GYTS fiber optical cable and multimode GYTS fiber optic cable, fiber strand from

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