

RIVO MULTITRADE OPTICAL SYSTEMS

Self-supporting butterfly optical cable accessory



Overview

GJYXFC Self-Supporting Drop Cable | FTTH / FTTB Ideal for use in both indoor environments and short outdoor spans, especially for Self-Supporting Butterfly.

Key Takeaways

A self-supporting butterfly-shaped optical cable is a robust, overhead or indoor fiber optic cable designed with integrated strength members and suspension wires, enabling it to support its own weight while protecting optical fibers and facilitating easy installation.

Structure and Design

The cable features a central optical communication unit flanked by two parallel non-metallic strength members (FRP) for compression resistance and fiber protection. An outer steel wire strength member or suspension wires are spirally wound around the cable, forming a self-supporting structure that eliminates the need for external support poles or pre-installed load-bearing components. The cable may include tightening devices, reversing devices, and fastening assemblies to maintain stability and reduce stress on the fibers during installation. The butterfly-shaped design allows the cable to maintain a low bending radius, resist swinging under wind loads, and prevent local tensile stress that could damage the internal fibers. Specialized bend-resistant optical fibers enhance bandwidth and network transmission performance, while the low-smoke zero-halogen (LSZH) sheath provides environmental safety and flame retardancy.

Applications

Self-supporting butterfly-shaped optical cables are widely used in Fiber-to-the-Home (FTTH) and Fiber-to-the-Building (FTTB) networks. They are suitable for:

- Overhead installations for long-distance signal transmission without the need for buried pipelines .
- Indoor environments such as vertical shafts, concealed pipes, cable trays, walls, and ceilings .
- Connecting optical network terminals (ONTs) to user access points with pre-terminated or on-site termination options .

Advantages

- Self-supporting: Can be installed without additional support structures, reducing installation complexity and cost .
 - Durable and safe: Resistant to environmental stress, wind, and accidental damage, prolonging service life .
 - Lightweight and practical: Simplifies handling, splicing, and maintenance .
 - High performance: Specialized fibers and strength members ensure excellent tensile, compression, and bending resistance, maintaining signal integrity .
- In summary, the self-supporting butterfly-shaped optical cable is a versatile, reliable solution for both outdoor and indoor fiber optic network deployments, combining mechanical strength, ease of installation, and high transmission performance.

Article Content

Self-Supporting Butterfly Drop Cable

It can be used for laying in indoor environments such as vertical shafts, concealed pipes, cable trays, walls,

FTTH self-supporting butterfly cable stainless steel cable clamp ...

Durable and Versatile Cable Clamp: The FTTH self-supporting butterfly cable stainless steel cable clamp is designed for a wide

Self-supporting Butterfly-shaped Introduction Indoor Optical Cable for ...

For self-supporting access network, the butterfly introduction of indoor optical cable positions the communication unit in the center,

Self Supporting Butterfly Optical Cable with LSZH Sheath

Butterfly Optical Cable with Metal Reinforcement, LSZH Sheath, and Galvanized Steel Rope for FTTH Drop Cable, offering durability

FTTH self-supporting butterfly Leather cable clamp stainless steel ...

Versatile Installation: Designed for FTTH use, this cable clamp is suitable for a wide range of fiber optic installation applications,

Self-supporting butterfly-shaped optical cable

The invention discloses a self-supporting butterfly-shaped optical cable, which comprises a reversing device and a tightening device,

Self-supporting Butterfly Drop Cable | Fasten

Fasten has both butterfly drop cable and self-supporting butterfly drop cable. The cable weight ranges from 12 to 28 kg/km.

Self-Supporting Butterfly Drop Cable

Self-Supporting Butterfly Drop Cable It is mainly used as a fiber to the home (FTTH) and other fiber optic access (FTTx) network user

All-Dielectric Self-Supporting (ADSS) Fiber Optic Cable Hardware

All-Dielectric Self-Supporting (ADSS) Fiber Optic Cable Hardware delivers high-performance engineering, reliability and simplified

1/2/4F Self-supporting Butterfly Drop Cable

1/2/4F Self-supporting Butterfly Drop Cable Abalone Tech's 1/2/4F Self-supporting Butterfly Drop Cable is designed for aerial and

Butterfly Indoor FTTH Drop Cable

Butterfly FTTH drop cable is a popular type of fiber access optical cable, according to the different application environment and laying

Self-supporting Butterfly Drop Optical Fiber Cable

Looking for a reliable and durable self-supporting butterfly drop optical fiber cable? Our high-quality cable is perfect for your outdoor

Self-supporting Butterfly Drop Optical Fiber Cable

Get a reliable self-supporting butterfly drop optical fiber cable, designed for outdoor installations. Experience durability and high

Self-Supporting Butterfly Introduction Optical Cable

Product Description Self-supporting Butterfly Introduction Optical Cable Features Small volume, propitious to the ending

FTTH Butterfly Optic Cables: Types, Specs & Installation Guide 2026

The full FTTH butterfly optic cable range covers indoor single-fiber drops through self-supporting aerial variants — with

Custom Self supporting butterfly shaped introduction optical cable ...

Looking for a high-quality self-supporting butterfly-shaped introduction optical cable GJYXCH? Check out Yancheng Jingze New

Self-Supporting Butterfly Optical Fibre Cable Market Size, Research ...

The application of Self-Supporting Butterfly Optical Fibre Cables spans multiple industries, including telecommunications, data

Self-Supporting Butterfly Lead-in Optical Fiber Cable Self-Supporting ...

Self-Supporting Butterfly Lead-in Optical Fiber Cable Self-Supporting Butterfly Drop Cable, Find Details and Price about Cable and

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

