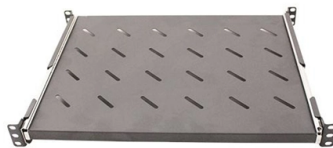


Skeleton-type optical cable butterfly shape



AI Overview

A skeleton-type butterfly-shaped optical cable features a butterfly-shaped sheath with a central skeleton that organizes and protects optical fiber ribbons, offering stable performance and easy maintenance.

Structure and Design

Skeleton-type butterfly optical cables have a cross-sectional shape resembling a butterfly, with two wings extending symmetrically from a central skeleton. The skeleton is positioned at the center of the sheath and serves as a structural backbone, providing mechanical support and protecting the optical fibers from thermal and mechanical damage during production and installation.

The cable typically includes:

- First reinforcement components:** Positioned symmetrically on the wings of the sheath to enhance tensile strength.
- Second reinforcement component:** Located at the center of the skeleton for additional support.
- Protective layer:** Wraps the skeleton to shield fibers from environmental stress.
- Skeleton slots:** Spaces within the skeleton where dispersive optical fiber ribbons are placed, keeping fibers organized and reducing the risk of damage.
- Tearing ports:** Symmetrically arranged along the skeleton to allow easy stripping of the cable without damaging the fibers.

Advantages

- Stable and reliable performance:** The skeleton structure minimizes fiber deformation and signal loss during handling and installation.
- Reduced thermal damage:** Direct contact between fibers and the sheath is minimized, preventing heat-related fiber damage during extrusion.
- Easy maintenance:** The skeleton allows selective access to fiber ribbons without stripping the entire cable, reducing future maintenance risks.
- Mechanical strength:** Reinforcement components and the skeleton provide high tensile strength, making the cable suitable for pipelines, overhead, and direct burial applications.
- Compact and efficient design:** The butterfly shape allows for a small outer diameter...

Article Content

Indoor butterfly -shaped optical cable advantage disadvantage

An indoor butterfly-shaped optical cable is a type of fiber optic cable designed for indoor use. It is named after its unique shape, which resembles that of a butterfly. In this essay, we will

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The invention discloses an S-shaped skeleton type optical cable and a preparation method thereof, and belongs to the technical field of communication optical cables. The skeleton type optical cable

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

The cable features a central optical fiber unit, two parallel strength members on either side, and an additional stranded steel wire for enhanced tensile support. This robust structure is then completed

Butterfly -shaped optical fiber optical cable side connection method

Butterfly-shaped optical fiber cables are a popular type of fiber optic cable that is commonly used for data transmission in telecommunication networks. They are called butterfly-shaped due to their

SC type butterfly lead-in cable connector

The main purpose of the present invention is to propose an SC-type butterfly drop cable connector, which aims to improve the tensile strength of the connector and ensure the stability of...

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 conditions, it has reasonable

Full-dry skeleton tight-buffered fiber optic cable

Through the cooperation between operators and optical cable manufacturers, as a new type of optical cable suitable for access network, full-dry skeleton tight-buffered optical fiber cable

Four -end connection methods of butterfly -shaped optical fiber optic ...

Butterfly-shaped optical fiber optic cables are a type of fiber optic cable that is widely used in communication networks. They are called butterfly-shaped because they have two parallel

Butterfly -shaped optical fiber optical cable

In conclusion, there are several ways to connect butterfly-shaped optical fiber cables, each with its own advantages and disadvantages. Fusion splicing is

How do FTTH butterfly optic cables handle mechanical stress and how ...

Among the various designs available, FTTH butterfly optic cables stand out for their unique construction and remarkable resilience to mechanical stress. However, understanding how

Skeleton type optical cable and preparation method thereof

The invention discloses a skeleton type optical cable and a preparation method thereof.

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The invention belongs to the technical field of optical cables, and discloses a butterfly-shaped drop-in optical cable for communication, which has a fitting part (1), a plurality of protection bodies (2), a

FTTH Butterfly Optic Cable Specification | PDF | Optical

The document outlines the specifications for FTTH Butterfly Optic Cable, detailing cable construction, performance parameters, and mechanical and environmental

SC prefabricated end butterfly-shaped fiber optic cable

SC prefabricated end butterfly-shaped fiber optic cable The product consists of indoor butterfly-shaped fiber optic cables and single-end or double-end pre-terminated fiber optic connectors, suitable for

Outdoor Single Mode Butterfly Fiber Optic Cable

Although it is said that outdoor single-mode butterfly fiber optic cable is widely used for long-distance transmission in integrated wiring, not many people have a deep understanding of its

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The invention relates to a skeleton type optical cable with a circular section, which comprises a cable core and a sheath, wherein the cable core comprises a skeleton, a skeleton groove is formed in the

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A super-soft low-cost corrugated skeleton groove type optical cable, comprising a central reinforcing member (1), a skeleton groove body (2), and grooves (3) in sequence from inside to outside. The

FTTH Butterfly Optic Cables: Practical Design, Installation, and ...

Learn how FTTH Butterfly Optic Cables improve fiber-to-the-home installations with flat design, easy routing, and reliable performance.

Four -end connection methods of butterfly -shaped

Butterfly-shaped optical fiber cables, also known as ribbon fiber optic cables, are a type of fiber optic cable that contains multiple fibers within a single

Butterfly-shape optical cable with skeleton

The invention relates to a butterfly-shape optical cable with a skeleton. The optical cable comprises first reinforcement components (1), a sheath layer (2), optical fiber ribbons (5) and the skeleton (7).

Novel skeleton type optical cable

A skeleton-type optical cable and skeleton technology, applied in the direction of fiber mechanical structure, etc., to achieve the effect of convenient

SC type butterfly lead-in cable connector

The SC type butterfly drop optical cable connector of the present invention adopts a pre-terminated solution, the product has high tensile strength and high reliability, can provide stable transmission of

Butterfly cables, Butterfly fiber optic cables

Butterfly Fiber optic cables are specifically designed for use in indoor environments, often in confined spaces such as inside buildings or data centers. They are

Butterfly-shape optical cable with skeleton

A butterfly optical cable and skeleton technology, applied in the direction of fiber mechanical structure, etc., can solve the problems of thermal damage to optical fibers, hidden dangers of maintenance,

Butterfly optical cable with framework

The butterfly optical cable is characterized by at least comprising one framework (7) located in the center of the optical cable, one protecting layer (3)

The transmission distance of the butterfly -shaped

Introduction:The butterfly-shaped optical cable is a type of fiber optic cable that is widely used in telecommunications networks, data centers, and

Self-Supporting Butterfly Drop Cable (GJYXFCH)

Novel flute design, easily strip and splice, simplify the installation and maintenance. Adopted to outdoor level and vertical distribution. Suitable for connect with communication equipment. Long distance and

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The invention relates to a flexible skeleton type optical fiber ribbon cable and a preparation method thereof, and the flexible skeleton type optical fiber ribbon cable comprises a central reinforcing

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