

Self-supporting butterfly optical cable classification and pricing

Article Overview

Self-supporting butterfly optical cables are classified by strength member type, deployment environment, and fiber count, with pricing ranging from \$0.09 to \$1.52 per foot depending on design and application.

Classification

1. By Strength Member Type

- o Steel Wire Strength Member: Provides high tensile strength for aerial installations; accounted for the largest market share at 53.6% in 2025 .

- o FRP (Fiber Reinforced Plastic) Strength Member: Lightweight and dielectric, suitable for indoor or low-tension outdoor applications .

2. By Deployment Environment

- o Indoor Butterfly Cables (GJXH): Include FRP strength members and LSZH (Low Smoke Zero Halogen) sheath; designed for building entry to subscriber ONT; fiber counts typically 1-12 cores .

- o Self-Supporting Outdoor Butterfly Cables (GJYXFCH/GJXFH): Add a steel messenger wire for aerial drops; can span up to 50 meters without external support; ideal for FTTH aerial installations .

3. By Fiber Type

- o Bend-Insensitive Single-Mode Fiber (ITU-T G.657):

- o G.657.A1: Tolerates 10 mm bend radius, compatible with legacy G.652.D, cost-effective for residential/light commercial use.

- o G.657.A2: Suitable for routing through conduits with tight bends or irregular surfaces.

- o G.657.B3: Higher bend tolerance for specialized installations .

4. By Application

- o Fiber-to-the-Home (FTTH): Largest application, 66% market share in 2025; supports high-speed last-mile connectivity .

- o Fiber-to-the-Building (FTTB): Multi-dwelling or campus installations; 22.38% market share in 2025 .

- o Enterprise Networking: Site-specific deployments; 11.67% market share in 2025 .

Pricing

- o Wholesale material pricing for FTTH drop-type optical fiber components: \$0.09-\$1.52 per foot.

- o 1-core self-supporting designs: Approximately \$0.13 per foot, making them cost-effective for high-volume residential connections .

- o Pricing varies based on fiber count, strength member type, and deployment environment.

Market Trends

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- o The global market was valued at USD 945.5 million in 2025 and is projected to reach USD 1.56 billion by 2032, with a CAGR of 7.42% .
- o Growth is driven by FTTH expansion, 5G network deployment, and increasing demand for high-speed broadband .
- o Leading manufacturers include Hengtong Optic-Electric, ZTT Group, Abalone Tech, and FiberHome Telecommunication Technologies, offering both indoor and outdoor self-supporting solutions . Self-supporting butterfly optical cables are favored for their lightweight, flexible design, ease of aerial installation, and durability, making them a critical component in modern fiber-optic networks.

With Self-Supporting Butterfly Optical Fibre Cable sales broken down by region, market sector and sub-sector, this report provides a

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

The global market for Self-Supporting Butterfly Optical Fibre Cable was estimated to be worth US\$ million in 2024 and

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 Cable It is mainly used as a fiber to the home (FTTH) and other fiber optic

Are you in search of the optimal fiber optic cable for your network? Well! It is critical to choose the right cable so that

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

2?Description (GJYXFCH) Indoor/Outdoor self-supporting butterfly drop cable, the optical fiber unit is positioned in the centre. two

GJYXFCH Cable is Self-supporting butterfly entry cable, which places the optical fiber in the center, place

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

Report Scope The Self-Supporting Butterfly Optical Fibre Cable market size, estimations, and forecasts are

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provided

The Self-Supporting Butterfly Optical Fibre Cable Market was valued at USD 945.5 Million in 2025 and is projected to

This report profiles key players in the global Self-Supporting Butterfly Optical Fibre Cable market based on the following parameters -

Chapter 2, to profile the top manufacturers of Self-Supporting Butterfly Optical Fibre Cable, with price, sales quantity, revenue, and

All-dielectric self-supporting (ADSS) cable is a type of optical fiber cable that is strong enough to support itself between structures

For a more in-depth understanding of the market, the report provides profiles of the competitive landscape, key

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