

Specifications and Models of 2-Core Butterfly Optical Cable

Article Overview

2-core butterfly optical cables are flat-profile FTTH cables with two optical fibers, reinforced strength members, and LSZH or PVC sheaths, designed for indoor and self-supporting outdoor deployment.

Cable Structure and Design

A 2-core butterfly optical cable features a flat, wing-shaped profile with the optical fibers positioned in the center and two parallel strength members on either side, typically made of Fiber Reinforced Plastic (FRP) or steel for added tensile strength . The flat design allows minimal stress when bent in the natural routing plane, while edge-on bending provides protection against accidental kinks . The cable is completed with a PVC or LSZH sheath, which is flame-retardant, low-smoke, and environmentally safe .

Fiber Type

These cables generally use bend-insensitive single-mode fibers, compliant with ITU-T G.657A or G652D standards . The G.657A1 variant is common for residential installations, tolerating 10-20 mm bend radii and fully compatible with legacy G.652.D infrastructure . This ensures high bandwidth and reliable communication even in tight routing conditions.

Models and Variants

2-core butterfly cables are available in indoor and self-supporting outdoor models:

- o Indoor Butterfly Cables (GJXH/GJXFH):
 - o FRP strength members only
 - o LSZH sheath
 - o Lightweight and flexible for routing from building entry to ONT
 - o Fiber counts: 1-4 cores for single-unit use, up to 12 cores for multi-tenant buildings
- o Self-Supporting Outdoor Cables (GJYXFCH/GJXFH):
 - o FRP plus steel messenger wire for aerial deployment
 - o Can span up to 50 meters without external support
 - o Suitable for connecting utility poles to building entry points

Mechanical and Environmental Characteristics

- o Tensile strength: Provided by FRP and optional steel wire

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- o Crush resistance: Two parallel strength members protect the fiber
- o Flame retardant and low-smoke sheath: LSZH or PVC
- o Lightweight and easy to strip/splice for installation and maintenance

Standards Compliance

2-core butterfly optical cables comply with international and national standards, including YD/T 1997-2009, ICEA-596, GR-409, and IEC 60794 . They are suitable for FTTX/FTTH applications, connecting central communication rooms to subscriber endpoints .

Applications

- o Indoor deployment: From building entry to ONT in residential or commercial buildings
 - o Outdoor aerial deployment: Self-supporting cables connecting poles to buildings
 - o FTTH networks: High-bandwidth, low-bend-loss connections for fiber-to-the-home installations
- In summary, 2-core butterfly optical cables offer a compact, bend-insensitive, and mechanically robust solution for both indoor and outdoor FTTH deployments, with models tailored for either lightweight indoor routing or self-supporting aerial spans.

- o Pigtails
- o Ideal for cable termination in patch panels, ODFs and wall boxes
- o Appropriate for all standard connector types

Fiber-optic cable with connector 2 core 1 Model Number 1.1 Model Number Description(Table 1) Example.)
TFC-2C-SM-SC-SC-2m 1

D-Link 2 Core FTTH Fiber Cable is an enhanced performance FTTH solution, constructed with two single mode/bend sensitive fibers

GJXFH FTTH Indoor Drop Cable uses butterfly flat structure, whose optical fiber unit is positioned in the centre. Two parallel Fiber

Two parrallel fiber reinforced plastics (FRP) are placed at the two sides. A steel wire as the additional

The drop cable is generally divided into 1 core, 2 cores and 3 cores single-mode fiber optic cable. Generally, a single core is used for

This specification defines the structure, optical performance, mechanical performance, environmental performance, fiber parameters,

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FTTH cables are ideal for indoor cabling, end users directly

Fiber Optic Drop Cable GJXH 2core Butterfly Indoor Telecom Communication Description : The dished lead-in optical cable (for

Panduit OS2 fibers meet or exceed numerous standards for optical fiber, including ITU-TG.652 (Categories A, B, C and D), IEC

We are Fiber Optic manufacture and supplier, provide 1, 2core, G657A2, LSZH Sheath, Butterfly Flat

The Butterfly leather line optical cable, also known as a butterfly ribbon cable, is a type of fiber optic cable that offers

2 Core Butterfly Indoor FTTH Fiber Optic Cable Note: We can print your brand name on the outer sheath of

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

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

Butterfly Drop Cable featuring central fiber core with dual side strength members and LSZH sheath. Perfect for FTTH drop wiring and

Web: <https://www.kremgroup.co.za>

