

# Butterfly-shaped optical cables are made of copper wire



## Overview

FTTH Butterfly Optic Cables, also known as flat drop fiber cables, feature a compact flat profile with optical fibers placed at the center and reinforced by parallel strength members on both sides. The outer sheath is typically LSZH or PVC, optimized for indoor and outdoor. Provided by the utility model is a butterfly-shaped photoelectric composite leading optical cable, which belongs to the mechanical technology field. Therefore, a problem that the wiring cost is high in the prior art can be solved. Their flat, butterfly-shaped structure combines optical fibers with strength members, making them ideal for indoor wiring, drop cable installations, and last-mile network. optic cable outweighs copper cable in the aspect of speed or bandwidth. It is much faster than copper cable, carries much higher bandwidth, has less interference and is lighter, stronger and more durable as well. Considering this situation, let's take a closer look at the ad eeing an excellent. Fiber optic cables have transformed modern communications infrastructure through light-based data transmission, unlocking unprecedented bandwidth over long distances.

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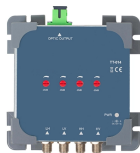
Two parallel FRP (Fiber Reinforced Plastic) elements enhance compression resistance and protect the optical fibers. Simple structure, lightweight, and ...



While traditional copper wire transmits data by electrical impulses, fibre optic cable is made from fine hair-like glass fibres, which carry light impulses transmitted by an LED or laser.



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 named for their flat, strip-like shape, which ...



The optical cable comprises a sheath and optical fibers arranged inside the sheath, wherein copper wires are arranged inside the sheath. V-shaped tearing grooves are symmetrically arranged...



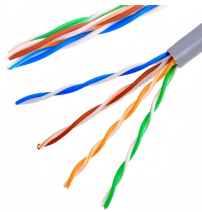
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Hundreds or thousands of these optical fibers are arranged in bundles in optical cables. The bundles are protected by the cable's outer covering, called a jacket. The diameters of the core and cladding ...



Cables made of copper wires that are twisted around each other and are surrounded by a plastic jacket (such as traditional home phone wire, and most ethernet cables).



Standard high-performance fiber optic data cables do not contain copper elements. Their glass or plastic fiber cores rely solely on light to transmit information without conductive metals.



All technical titles are built by PatSnap AI team. It summarizes the technical point description of the patent document. Its filling feature does hold the butterfly sub-cable sheath, but it is not convenient for quick ...



Fusion splicing is a popular method of connecting butterfly-shaped optical fiber cables. It involves welding two fiber cables together using heat. The two fiber cables are stripped of their ...



Optic cable outweighs copper cable in the aspect of speed or bandwidth. It is much faster than copper cable, carries much higher bandwidth, has less interference and is lighter, stronger and more durable ...



Fiber optic cables are built with a silica glass fiber core, about the width of a human hair. It transmits data via light, by allowing it to bounce back and forth down the length of the glass core, ...

## Contact Us

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