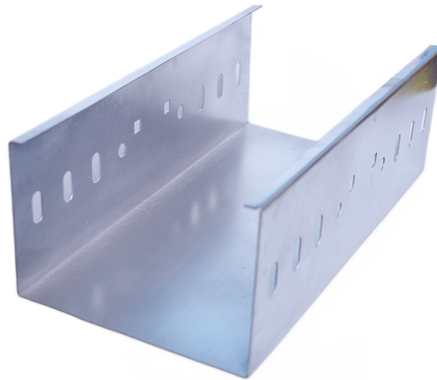


How to open a butterfly-shaped 12-core optical cable



Overview

As a hand-held stripper, it has a high-strength structure, simple operation, and a flat incision without damaging the optical fiber.

Key Takeaways

To open a butterfly-shaped 12-core optical cable, carefully strip the outer sheath, separate the flat fiber ribbons, and handle each fiber individually to prepare for splicing or termination. Understanding the Cable Structure

Butterfly-shaped optical cables have a flat, compact design with two parallel fiber ribbons at the center, reinforced by strength members on both sides. The outer sheath is typically LSZH or PVC, and the fibers inside are usually single-mode, optimized for tight indoor routing and minimal signal loss . The flat geometry prevents twisting and rolling, but requires careful handling to avoid bending or breaking the fibers .

Tools You Will Need

- Fiber optic stripper or precision knife
- Cleaver for cutting fibers
- Fusion splicer or mechanical splice kit
- Lint-free wipes and cleaning fluid

- Protective gloves and eye protection

Step-by-Step Procedure

- Prepare the Work Area: Ensure a clean, dust-free environment to prevent contamination of fibers .
- Strip the Outer Sheath: Using a fiber optic stripper or precision knife, carefully remove the outer jacket along the section you need to access. Avoid nicking the internal fibers or strength members .
- Expose the Strength Members: Identify the FRP or steel wire strength members on either side of the fiber ribbons. These provide tensile strength and should be handled carefully to avoid snapping the fibers .
- Separate the Fiber Ribbons: Gently peel apart the two parallel fiber ribbons. Each ribbon contains multiple cores (in this case, 12 cores total). Handle each fiber individually to prevent microbends or breakage .
- Clean the Fibers: Use lint-free wipes and cleaning fluid to remove any debris or coating residue from the fiber ends before splicing or termination .
- Prepare for Connection: Depending on your method, either:
 - Fusion Splicing: Align the bare fiber ends in a fusion splicer and weld them together using a high-voltage arc for a permanent, low-loss connection .
 - Mechanical Splicing: Insert the fibers into a mechanical splice connector, align them, and compress to secure the connection .

Safety and Handling Tips

- Maintain the minimum bend radius to prevent fiber damage .
- Avoid twisting, pinching, or excessive pulling on the cable.
- Always protect fiber ends from contamination and scratches.
- Dispose of fiber scraps safely, as they can be hazardous to skin and eyes. By following these steps, you can safely open a butterfly-shaped 12-core optical cable and prepare it for splicing, termination, or testing while minimizing the risk of signal loss or fiber damage .

Article Content

How to open a butterfly-shaped optical cable

Butterfly -shaped optical fiber optical cable There are several ways to connect butterfly-shaped optical fiber cables, and in this article,

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The embodiment of the application further provides a butterfly-shaped optical cable preparation method, which is used for preparing

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Butterfly -shaped optical fiber optical cable side connection method

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The transmission distance of the butterfly -shaped optical cable

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1 Core, 2 Core, 3 Core Butterfly Drop Cable

The outdoordrop cable has a self-supporting hanging wire in a figure-8 shape. The drop cable is generally divided into 1 core, 2 cores

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