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How to use a vertical fiber optic splice box



Overview

A splice box (also known as splice distributor) is a housing in which fiber optic cables begin or end.

Key Takeaways

Connecting a vertical fiber optic splice box involves careful cable preparation, proper sealing, precise splicing, and organized stacking of splice trays to ensure low-loss, reliable fiber connections.Step 1: Prepare the Fiber Cables

Begin by removing the outer jacket of the fiber optic cable according to the manufacturer's instructions. Strip away any shielding or armor and expose the loose tubes, leaving about 3 meters of cable for preparation. Clean the fibers and strength members with a suitable cleaning solution, remove excess filling, and abrade the outer jacket for about 150 mm to ensure proper sealing .

Step 2: Install the Cable into the Splice Box

Select sealing rings that match the cable diameter and place them on the cable. Insert the cable into the designated entry port of the splice box. If the cable has metallic shielding or strength members, ground and bond them properly. Wrap self-adhesive sealing tape between the sealing rings to create a secure seal, then use a hose clamp or other provided hardware to secure the cable to the base of the closure .

Step 3: Splice the Fibers

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Choose the appropriate splicing method:

• Fusion Splicing: Uses an electric arc to fuse fibers, providing minimal signal loss (typically

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Fiber Splice Closures provide the required space essential for fiber optic fusion splicing. In addition, there are two main variations of

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Main types—dome, horizontal, and modular—each suit unique applications. The Opticube Fiber Optic Closure by

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Fiber optic splice closures are critical components in any fiber splicing deployment. These sealed enclosures protect

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