How to install a dual-core fiber optic splice box

Overview

How to Splice Dual Core Fiber Optic Cable | Fusion Splicing Both Cores Step by Step |In this video, you''ll learn how to splice a dual core fiber optic cable ...

Key Takeaways

Installing a dual-core fiber optic splice box involves careful cable preparation, fiber organization, splicing, and secure closure to ensure reliable network performance. Step 1: Prepare the Fiber Optic CableBegin by removing the outer jacket of the fiber optic cable according to the manufacturer's instructions, typically leaving about 3 meters of cable for preparation ( ). If the cable has shielding or armor, remove these layers carefully.

Clean the exposed fibers and strength members using a suitable cleaning solution, and abrade the outer jacket for about 150mm to ensure proper sealing ( ). Step 2: Install the Splice BoxSelect the appropriate mounting location for the dual-core splice box, ensuring it is accessible for maintenance and protected from environmental hazards. Secure the box using the provided mounting brackets or screws.

Insert the prepared cable into the designated entry ports of the splice box, using sealing rings or grommets to match the cable diameter ( ). Ground any metallic shielding or strength members as required. Step 3: Organize Fibers Inside the BoxInside the splice box, use the splice trays or fiber guides to organize the fibers.

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Lay service loops at a defined length, sort fibers according to the connection plan, and maintain the minimum bending radius to prevent damage ( ). Secure fibers with intermediate fixings to prevent slippage and ensure neat routing. Step 4: Perform Fiber SplicingPrepare the fiber ends by cleaving them to the correct length.

Depending on your project requirements, perform either fusion splicing (melting fiber ends together with an electric arc) or mechanical splicing (aligning fibers with a precision guide and index gel) ( ). After splicing, install protective sleeves over the splice points and measure attenuation to verify quality. Step 5: Secure and Seal the ClosureOnce all fibers are spliced and organized, carefully place the splice trays into the box.

Ensure that all buffer tubes and fibers are secured and not pinched when closing the cover ( ). Tighten hose clamps or cable tie-downs to secure the cables, and apply sealing tape or gaskets to maintain environmental protection ( ). Step 6: Final Checks and DocumentationVerify that all fibers are correctly routed, spliced, and protected.

Check grounding connections and ensure the box is properly sealed. Document the fiber connections and splice locations for future maintenance ( ). Regular inspections are recommended to detect potential issues early and maintain network reliability.

By following these steps, a dual-core fiber optic splice box can be installed efficiently, providing secure, organized, and low-maintenance fiber connections.

Article Content

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Description All Systems Broadband ofers a Fiber Splice Box designed for indoor splice-only applications. Two configurations are available; Ribbon Optimized Splicing and Tray Splicing. These aluminum

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