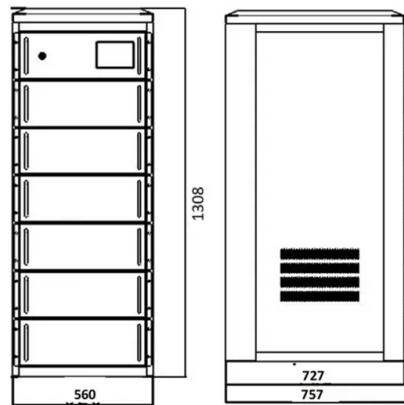


How to weld fiber distribution boxes



Article Overview

Use fusion splicing with a modern automatic splicer, proper fiber preparation, and organized distribution box layout to achieve fast and reliable fiber connections.

Step 1: Prepare the Fiber Cables

Before welding, strip the fiber coating carefully using a precision stripper to expose the bare fiber (125 μm diameter) without damaging it. Clean the fiber with isopropyl alcohol and lint-free wipes to remove any gel or debris, especially for cables with anti-moisture gel. For reinforced cables, trim aramid fibers using Kevlar scissors to prevent interference during splicing .

Step 2: Select and Prepare the Distribution Box

Choose a distribution box suitable for the installation environment (wall-mounted, underground, or 19" rack). Proper selection protects fibers from mechanical damage and moisture, reducing future maintenance. Organize the box with fiber trays to maintain proper bend radius and prevent signal loss .

Step 3: Cut and Align Fibers

Use a high-precision fiber cutter to cut fibers to the correct length (typically 10–15 mm for fusion splicing). Place the fibers into the V-groove of the fusion splicer, ensuring proper alignment. Modern automatic splicers handle centering and arc parameters automatically, significantly reducing welding time

Article Content

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Plug the connectors from the distribution cable into the appropriate fiber optic coupler. Any unused fibers can be routed to the side

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The fiber Distribution box is a common product in FTTH and FTTB. It protects the connection point of the optical cable to access user

Contact Us

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