

How to connect an 8-core fiber optic cable junction box



AI Overview

Connecting an 8-core fiber optic junction box involves mounting the box, introducing the fiber cables, splicing or connecting fibers to pigtails, and carefully managing the fiber routing to prevent damage.

Step 1: Mount the Fiber Optic Box

Install the 8-core fiber distribution box on a wall, pole, or rack using the provided brackets and screws. Ensure the box is oriented correctly for easy access to the front panel and cable inlets. For outdoor installations, verify that the box is sealed to maintain its IP55-rated waterproof and dustproof protection.

Step 2: Introduce Fiber Cables

Feed the incoming fiber optic cable through the designated cable inlet using a grommet to secure it. This protects the cable from sharp edges and prevents movement that could stress the fibers. Ensure the cable length inside the box is sufficient to allow the front panel to be fully extended without tension, typically at least 31 inches for trunk cables.

Step 3: Splicing or Connecting Fibers

- **Fusion Splicing:** Strip the fiber jacket, clean the fibers, and use a fusion splicer to join the incoming fiber cores to pigtails.
- **Connector Termination:** If using pre-terminated pigtails, insert them into the adapter panel ports. Ensure each fiber is connected to the correct port to maintain one-to-one mapping.

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Contact Us

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