

How to connect fiber optic cable to fiber optic terminal box



Article Overview

Connecting fiber optic cables to a terminal box involves careful preparation, splicing to pigtails, securing fibers in trays, and testing for signal integrity.

Step 1: Prepare the Terminal Box

Choose the appropriate fiber optic terminal box for your installation, considering indoor or outdoor use, port capacity, and mounting style (wall-mounted, desktop, or rack-mounted) . Fix the box securely using screws or wall anchors, ensuring it is stable and level . Make sure the installation area is clean and dust-free to prevent contamination of the fibers .

Step 2: Prepare the Fiber Cable

Cut the fiber optic cable to the required length using a fiber cleaver or cutting pliers . Strip the outer jacket carefully to expose the fiber core, and clean the fiber end with specialized cleaning tools to remove dust or debris . Maintain the minimum bend radius to avoid damaging the fiber.

Step 3: Splice Fiber to Pigtails

Most terminal boxes use pigtails (pre-connectorized fiber tails) for termination. Insert the fiber into the splice tray inside the terminal box and perform a fusion splice to join the incoming fiber to the pigtail . The splice tray protects the fibers and stores...

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Illustration of How to Connect the Terminal box in FTTH solution

Connection steps 1. The outdoor optical fiber cable is connected to the terminal box. The purpose is to fuse the

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This prevents any interruption in light flow through the cable, thus maintaining high-quality data transfer rates.

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