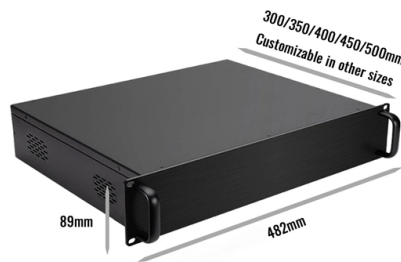


How to install a mobile fiber distribution box



Overview

Our technician will arrive and install a small box on your home's exterior for running fiber cable into your home.

Key Takeaways

Installing a mobile fiber distribution box involves careful site preparation, secure mounting, precise fiber termination, and thorough testing to ensure reliable network performance.

Site Preparation

- Select the installation location: Choose a dry, ventilated, and anti-corrosion area. For indoor installations, the bottom of the box should be 1.2–2.5 meters above the ground; for outdoor installations, 2.8–3.2 meters is recommended. Avoid unstable walls, temporary structures, or areas with water leakage or high-voltage cables.

- Check equipment and tools: Ensure the FDB includes all components such as splice trays, protective sleeves, and cable management rings. Prepare tools like drills, screwdrivers, cable strippers, fiber cleavers, expansion bolts, and protective gear.

Mounting the Distribution Box

- Wall mounting: Mark drill points according to the box's mounting holes, drill, insert wall plugs, and secure the box with screws.

- Pole mounting: Use the provided pole mounting kit or metal clamps, ensuring the box is at a manageable height for maintenance.

- Leveling and alignment: Ensure the box is properly aligned and leveled to prevent strain on fibers and maintain accessibility .

Fiber Connection

- Cable preparation: Strip the outer jacket of fiber cables and clean fiber ends before termination .

- Splicing and termination: Use splice trays or patch panels to organize fibers. Mechanical or fusion splicing can be performed depending on the project requirements .

- Connector installation: Terminate fibers with appropriate connectors, ensuring minimal signal loss .

Testing and Verification

- Signal testing: Use an optical time-domain reflectometer (OTDR) or power meter to verify signal integrity and detect any faults .

- Cable management: Organize fibers neatly within the box to facilitate future maintenance and troubleshooting .

Best Practices

- Environmental protection: For outdoor FDBs, ensure the box is weatherproof and resistant to dust, moisture, and temperature variations .

- Maintenance accessibility: Install the box in a location that allows easy access for inspection, repairs, or network expansion .

- Scalability: Choose a box that accommodates future network growth, including additional fibers or splitters .

- Safety: Follow all electrical and fiber handling safety protocols to prevent injury and equipment damage . By following these steps, a mobile fiber distribution box can be installed efficiently, ensuring organized cable management, reliable signal transmission, and ease of maintenance for both indoor and outdoor network deployments .

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The FOA Reference For Fiber Optics

The simplest installation could involve connecting the ONT by cable to the customer computer. But most subscribers have several

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