

Replacing the splitter with a mobile fiber distribution box

Article Overview

Replacing a splitter in a mobile fiber optic distribution box involves careful removal, cleaning, and installation of the new splitter while maintaining proper fiber management and minimizing signal loss.

Step 1: Prepare the Work Area and Tools

Ensure you have a clean, dust-free workspace and gather all necessary tools: fiber optic cleaning kit, fiber stripper, fusion splicer or mechanical splice kit, fiber optic connectors, and the replacement splitter. Safety glasses and gloves are recommended to protect both the fibers and yourself .

Step 2: Power Down and Access the Box

Before starting, disconnect the feeder fiber to prevent accidental damage. Open the distribution box carefully, noting the layout of the existing splitter, splice trays, and adapters .

Step 3: Remove the Old Splitter

- o Identify the input and output fibers connected to the existing splitter.
- o Carefully disconnect the fibers from the splitter ports, using a fiber optic cleaning kit to prevent contamination.
- o If the splitter is mounted in a tray or slot, gently release it from its holder without bending the fibers excessively .

Step 4: Prepare the New Splitter

- o If using a bare PLC splitter, prepare it for splicing by stripping the fiber ends and cleaning them.
- o For connectorized splitters, ensure the connectors are clean and free of dust.
- o Check that the splitter matches the required split ratio and port count for your network .

Step 5: Install the New Splitter

- o Place the splitter into the designated slot or tray inside the distribution box.
- o Secure it using the built-in clamps or protective holders to prevent movement.
- o Route the fibers carefully, maintaining the minimum bend radius and coiling any excess fiber neatly .

Step 6: Connect and Test

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- o Connect the input fiber to the splitter's input port and the output fibers to the corresponding output ports.
- o Use a fiber optic tester to measure link attenuation and ensure proper signal distribution.
- o Troubleshoot any high-loss connections before closing the box .

Step 7: Close and Seal the Box

- o Once testing is complete, close the distribution box securely.
- o Ensure all gaskets and seals are intact to maintain IP rating and environmental protection, especially for outdoor or mobile boxes .

Tips for Best Practices

- o Always clean fibers and connectors before connecting to prevent signal loss.
- o Avoid sharp bends or tension on fibers to prevent breakage.
- o Label fibers clearly for future maintenance.
- o Follow manufacturer guidelines for the specific splitter and distribution box model . By following these steps, you can safely and efficiently replace a splitter in a mobile fiber optic distribution box while maintaining network reliability and minimizing signal degradation.

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The configuration below has individual splitters at a central location, but addresses that are typically not reconfigurable by jumpers,

A fiber distribution box (FDB) functions as a central hub in fiber optic networks where the main cable is split into

Fiber distribution terminal box mainly include fiber splice box, fiber splitter box, access terminal box for outdoor FTTH

A fiber terminal box, is a device used in fiber-optic communication networks to terminate, splice, and distribute optical

AR-DB-CDO-10P-HC DESCRIPTION The equipment is used as an intermediate distribution point or a termination point for the

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In this solution, as shown in Figure 10, each hub box has a 1:2 optical splitter built in. FAT 1-FAT 3 use

In the backbone layer, installation points include primary optical junction boxes, secondary optical junction boxes, or inside optical

This blog explores how to tackle these challenges with a full range of fiber optic products including patch cords, PLC splitters, fiber

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