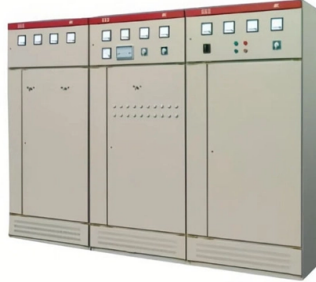


How to plug in the optical splitter port



Overview

If you follow these steps and tips, you can install your splitter the right way and keep your fiber network strong.

Key Takeaways

To plug in an optical splitter, connect the input fiber to the splitter's input port and link the output ports to your end devices, ensuring clean, secure connections and proper signal testing.

Step-by-Step Guide

1. **Identify Ports:** Locate the input port on the optical splitter, usually marked as "IN" or "E," and the output ports for connecting end devices. For cascading splitters, note any special ports like a green cascade port to avoid incorrect insertion.
2. **Prepare Fiber Cables:** Measure and cut the fiber optic cables to the required length. Strip the protective jacket carefully to expose the inner fiber, and clean the fiber ends using a fiber cleaning tool to remove dust or debris.
3. **Connect the Fibers:** Insert the input fiber into the splitter's input port and connect the output fibers to the corresponding output ports. Ensure the connectors are fully seated and oriented correctly. Use clips or screws if provided to secure the connections.
4. **Test Signal Strength:** Use an optical power meter to measure the input and output power. The insertion loss should be within the theoretical range (e.g., ~3.5 dB for a 1:2 splitter). Ensure each output channel's optical power is within the safe range, typically -20 dBm to -25 dBm.
5. **Avoid Common Issues:**

- Keep connectors clean and free of dust.
- Avoid bending or kinking the fiber cables.

- Limit the number of connected devices to prevent bandwidth reduction.
- Confirm carrier support if splitting your own fiber at home . 6. Cascading Splitters (Optional): If connecting multiple splitters, link one output of the primary splitter to the input of the secondary splitter. Monitor signal loss carefully to ensure it remains within acceptable limits . 7. Final Checks: Power on all connected devices and verify that the signal is stable. Adjust connections if necessary and label cables for easier maintenance in the future . By following these steps, you can safely and effectively plug in an optical splitter port, ensuring reliable signal distribution across your fiber network.

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