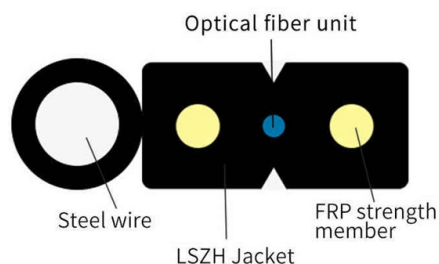


How to enable a China Unicom optical splitter



Overview

In this guide, we'll explain how to safely connect a splitter to another splitter, covering both fiber optic and coaxial setups.

Key Takeaways

To add a China Unicom optical splitter, connect the input fiber from the OLT to the splitter's input port and route the output fibers to the ONTs or end devices, ensuring proper port identification and minimal signal loss.

Step 1: Identify the Splitter Type and Ports

- Determine whether your splitter is a PLC (Planar Lightwave Circuit) or FBT (Fused Biconical Taper) type. PLC splitters are more common in GPON/FTTX networks and provide precise, equal splitting ratios, while FBT splitters are traditional and cost-effective for smaller deployments .
- Locate the input port (usually marked "IN" or "E") and the output ports (marked numerically or with "OUT") on the splitter .
- Check the connector type, typically SC/APC, to ensure compatibility with your fiber cables .

Step 2: Prepare the Fiber Cables

- Route the main optical fiber from the OLT (Optical Line Terminal) or central distribution point to the splitter location. Use existing in-wall conduits or pipes if available .

- If routing through a pipe, use a spring wire threader or pull tape to guide the fiber without bending it sharply, maintaining a bend radius of at least 30 mm for single-mode fibers .

- Remove protective caps from the SC connectors and clean the fiber ends with a fiber cleaning kit to prevent contamination .

Step 3: Connect the Splitter

- Insert the input fiber into the splitter's input port at a slight angle (around 45°) to ensure a secure connection .

- Connect each output fiber to the corresponding ONT or end device port. Ensure that the fibers are not twisted or stressed, and avoid sharp bends .

- If cascading splitters, connect the output of the first splitter to the input of the next splitter following the same procedure .

Step 4: Secure and Test

- Mount the splitter in a distribution box or wall-mounted enclosure to protect it from dust and physical damage .

- Verify the optical power at each output using an optical power meter to ensure the signal is within acceptable limits (typically within ± 0.5 dB of expected values), .

- Confirm that all ONTs or end devices are receiving a stable signal and that the network is operational.

Step 5: Safety and Maintenance

- Always disconnect the main power before handling fibers to avoid electric shock .

- Wear insulation gloves and handle fibers carefully to prevent injury from fiber shards.

- Keep spare protective caps for unused ports to prevent contamination and signal loss .

By following these steps, you can safely and efficiently add a China Unicom optical splitter to your fiber network, ensuring reliable distribution of optical signals to multiple end devices.

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WDM Fiber, Wavelength Division Multiplexing | T & S Communication

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