

Connection Method for 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

In China Unicom networks, optical splitters are connected using SC/APC or LC fiber connectors, with the main fiber from the OLT connected to the splitter input and user fibers connected to the outputs, following proper cascading and signal optimization practices.

Basic Connection Setup

- **Splitter Placement:** Install the optical splitter in a designated corridor or distribution point between the OLT (Optical Line Terminal) and end users. The main fiber from the OLT room is routed to the splitter, and user fibers are connected from the splitter to individual premises ().

- **Connector Types:** China Unicom commonly uses SC/APC or LC connectors for optical splitters. Ensure that connectors on the patch cables match the splitter ports to avoid signal loss ().

- **Patch Cables:** Use high-quality fiber optic patch cables to connect the OLT to the splitter input and from the splitter outputs to the ONT (Optical Network Terminal) or secondary splitters if cascading is required ().

Cascading Splitters

- **Primary Splitter Input:** Connect the main fiber line from the OLT to the input port of the primary splitter.

- **Primary Splitter Output:** If additional splitters are needed, link one output of the primary splitter to the input of a secondary splitter using a fiber patch cable.
- **Secondary Splitter Outputs:** Connect the remaining outputs to end-user devices or ONTs ().
- **Signal Loss Consideration:** Each 1x2 optical splitter introduces approximately 3.5 dB loss per output. Plan the cascade levels and split ratios (e.g., 1x4, 1x8) to maintain adequate signal strength ().

Installation Tips

- **Avoid Mismatched Connectors:** Mixing UPC and APC connectors can cause significant signal degradation.
- **Test Signal Strength:** Use an optical power meter to verify signal levels after installation.
- **Amplifiers:** If cascading multiple splitters over long distances, consider using an optical amplifier to compensate for cumulative loss ().
- **Splitter Ratios:** Choose split ratios according to network design requirements, balancing the number of users per splitter with acceptable signal loss ().

Additional Resources

- China Unicom optical splitter socket diagrams and datasheets provide detailed port layouts and technical specifications for proper installation ().
- Professional suppliers like Huijue Communication Equipment offer integrated outdoor cabinets and splitter boxes designed for China Unicom networks, ensuring standardized deployment (). By following these guidelines, optical splitters in China Unicom networks can be connected efficiently, ensuring reliable signal distribution and minimal loss across the fiber network.

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This step is crucial to prevent signal loss and ensure a reliable connection. Step 3: Install the Fiber Optic Splitter

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What Is an Optical Splitter?

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Step 8: You should now have smooth internet access. But if you're still having connection issues, check your

Application of Optical Splitters in PON Networks

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