

How to connect the fiber optic splitter to the home



Article Overview

To connect a fiber optic splitter to your home, you need to route the incoming fiber to the splitter, connect the input and output fibers properly, and ensure clean, secure connections to your devices.

Step 1: Gather Tools and Materials

You will need fiber optic cables, a fiber optic splitter (PLC or FBT type), connectors (LC, SC, or ST), a fiber cleaver or stripper, cleaning tools (alcohol wipes or cleaning pens), and optionally a fusion splicer or mechanical splice kit for precise connections . An optical power meter is recommended to verify signal strength after installation .

Step 2: Choose the Splitter Location

For home installations, splitters can be placed indoors in a central wiring box, utility room, or near the optical network terminal (ONT) . Ensure the location is dust-free, moisture-proof, and allows the fiber bend radius to remain above 5 cm to prevent damage . Wall-mounting the splitter with the connector facing downward helps avoid dust accumulation .

Step 3: Prepare the Fiber Cables

- Measure and cut the fiber cables to the required lengths .
- Strip approximately 5 mm of the protective jacket from the fiber ends using a fibe...

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