

How to add an interface to an optical splitter



Article Overview

To add an interface to an optical splitter, you connect the appropriate fiber optic patch cable or adapter to the splitter's input or output port, ensuring compatibility with the splitter type and minimizing signal loss.

Understanding Optical Splitters

Optical splitters, also called fiber optic splitters, divide a single light signal into multiple outputs, allowing multiple users to share one fiber line. They are passive devices, requiring no power, and are commonly used in FTTH (Fiber to the Home) networks to connect Optical Line Terminals (OLT) to multiple Optical Network Terminals (ONTs) at user premises . Splitters come in two main types: FBT (Fused Biconical Taper) for small splits and PLC (Planar Lightwave Circuit) for larger splits, with split ratios like 1:2, 1:4, 1:8, up to 1:64 .

Steps to Add an Interface

- Identify the Port Type Determine the connector type on the splitter (e.g., SC/APC, LC) and ensure your fiber patch cable or interface matches .
- Select the Correct Fiber Cable Use single-mode or multi-mode fiber depending on your network. For optical splitters in PON networks, single-mode fiber is standard .
- Connect the Interface
- For adding a new user or device, connect the fiber patch cable from the splitter output port to the device's input port.
- If expanding the network, you can cascade splitters by connecting an output of th...

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Website: <https://www.chromadecksigns-eastrand.co.za>

Email: sales@chromadecksigns-eastrand.co.za

Phone: +32 2 318 5792

Address: Avenue Louise 500, 1050 Brussels, Belgium

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