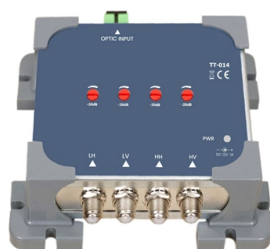


Where is the receiver of the optical splitter



Overview

Fundamentals of Optical Splitters » SENKO Advanced Optical splitters distribute television signals in CATV networks to allow multiple users to receive the.

Key Takeaways

The receiver of an optical splitter is typically located at the optical network terminal (ONT) or end-user device, after the optical signal has been split and transmitted through the output fibers. How Optical Splitters Work

An optical splitter is a passive device that divides a single optical signal into multiple outputs, distributing light to several fibers according to a predetermined splitting ratio. The splitter can be based on Planar Lightwave Circuit (PLC) or Fused Biconical Taper (FBT) technology, and it is installed either in a central office, cabinet, closure, or pedestal depending on the network design.

Receiver Placement

- End-User Side (ONT/ONU): The receiver is located at the optical network terminal (ONT) in a home or business, which converts the optical signal back into electrical signals for devices like routers, computers, or set-top boxes.
- Central Office or OLT: In some centralized splitter architectures, splitters are located near the central office or optical line terminal (OLT), but the actual receivers are still at the customer premises.

- **Distributed Splitters:** In distributed architectures, splitters may be placed in closures or pedestals along the network route, closer to clusters of users. Each output fiber from the splitter leads to a receiver at the corresponding ONT .

Summary

The receiver is always positioned at the end of the optical path, after the splitter has divided the signal. The splitter itself can be located centrally or distributed in the field, but the ONT or customer device is where the optical signal is ultimately received and converted for use . This ensures that each user receives the appropriate portion of the optical signal according to the network's split ratio.

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