

Price of optical splitters for communication equipment rooms



Overview

Optical Splitters Optical Splitters, Power & Tel is your Supply Chain Partner. Founded in 1963, Power & Tel is a distributor of communication Optical Split.

Key Takeaways

Optical splitters for communication equipment rooms typically range from \$20 to \$200, depending on type, split ratio, and performance specifications. Overview of Optical Splitters

Optical splitters, also known as fiber optic splitters or beam splitters, are passive devices that divide a single optical signal into multiple outputs, enabling point-to-multipoint communication in networks like FTTH and PON systems . They are essential in central offices, headends, and communication equipment rooms to efficiently distribute signals to multiple subscribers.

Types of Splitters

- PLC (Planar Lightwave Circuit) Splitters: Use micro-optical fabrication to create precise optical waveguides. They are compact, highly reliable, and suitable for high split counts (1x16, 1x32, 1x64). PLC splitters are preferred for large-scale deployments due to their uniform signal distribution and low insertion loss .



- FBT (Fused Biconical Taper) Splitters: Traditional technology where fibers are fused and tapered. Typically used for smaller split ratios (1x2, 1x4), they are cost-effective and reliable for simpler network setups .

Pricing Factors

The cost of optical splitters depends on several factors:

- Split ratio: Higher split counts (e.g., 1x32, 1x64) generally cost more than lower ratios (1x2, 1x4) due to increased complexity .
- Insertion loss and performance: Splitters with lower insertion loss, better signal uniformity, and enhanced environmental stability command higher prices .
- Packaging and form factor: Options include bare fiber, ABS box, LGX cassette, and rack-mount modules. Connectorized or modular splitters may be more expensive .
- Quality and manufacturer: Premium models from established brands offer long-term reliability and reduced maintenance costs, which can justify higher upfront investment .

Typical Price Range

- Entry-level PLC splitters: Around \$20-\$50, suitable for small-scale or low-split applications .
- Mid-range splitters: Approximately \$50-\$120, offering better insertion loss and moderate split ratios (1x8, 1x16), .
- High-end or premium splitters: Up to \$200 or more, designed for high split counts, low insertion loss, and enhanced durability for large-scale deployments .

Practical Considerations

When planning purchases for communication equipment rooms:

- Evaluate the network scale and required split ratios.
- Consider long-term reliability and compatibility with existing infrastructure.
- Factor in future scalability, as investing in higher-quality splitters can reduce maintenance and improve network performance over time . By understanding these factors, network planners can select optical splitters that balance cost, performance, and scalability for efficient fiber network deployment.

Article Content

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Passive Optical Network (PON) Knowledge Introduction

A Passive Optical Network (PON) is a system that transmits all or most of the fiber cabling and signals to end-users.

Optical Splitters: Split Ratios, Splitting Architectures & PON Network ...

This guide focuses on two critical aspects of optical splitters that define FTTH performance: split ratios (how signals

Fiber-optic splitter

Fiber-optic splitter A fiber-optic splitter, also known as a beam splitter, is based on a quartz substrate of an integrated waveguide

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What Is an Optical Splitter?

What's an optical splitter? How does the fiber optic splitter work? How many fiber splitter types? How to choose the right fiber

Rack Mount PLC Splitters Types Prices & Specifications

Rack Mount PLC Splitters are designed for consistent performance, low optical Insertion loss, low polarization Dependent Loss, high

Optical Digital Splitters for Audio Systems

An optical splitter helps you share one digital audio source with more than one device. Send TV or media player audio to a soundbar

Type of Splitters for FTTH

Type of Splitters for FTTH : In this article, I will discuss about fiber optic splitters that widely used in FTTH network. A

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