

Price of 1:12 Optical Splitter



AI Overview

The price of a 1:12 PLC optical splitter typically ranges from around \$15 to \$50 per unit, depending on specifications and supplier.

Overview A 1:12 optical splitter is a passive device used to divide an optical signal from a single input fiber into 12 output fibers. These splitters are commonly used in FTTH networks, data centers, and telecommunications. The most common type is a PLC (Planar Lightwave Circuit) splitter, which ensures uniform signal distribution and low insertion loss across the 1260–1620 nm wavelength range.

Pricing Examples

- FiberTechnic PLC 1:12 SM 0.9mm in steel box:** Available from suppliers like Cyberteam, typically priced around \$20–\$40 per unit, depending on quantity and shipping.
- Fiber24 PLC splitters:** Offer 1:12 singlemode splitters for professional network installations, with prices generally in the \$15–\$50 range, excluding VAT.

Consumer-grade optical splitters (for home or AV use) are available on platforms like Amazon or Idealo, but these are usually 1x2 or 1x8 and may not match the 1:12 specification.

Factors Affecting Price

- Type of fiber:** Singlemode splitters are generally more expensive than multimode.
- Packaging:** Steel box or bare fiber pigtail versions can affect cost.
- Insertion loss and uniformity:** Higher-quality splitters with lower loss and better uniformity are priced higher.
- Quantity:** Bulk purchases often reduce the per-unit cost.
- Supplier and shipping:** Prices vary by region and shipping options.

Recommendation For professional applications, it is recommended to purchase PLC 1:12 singlemode splitters from reputable suppliers like Cyberteam or Fiber24 to ensure reliability, warranty, and consistent performance. For smaller or experimental setups, consumer-grade splitters may be sufficient, but they may not provide the same performance or durability.

Article Content

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