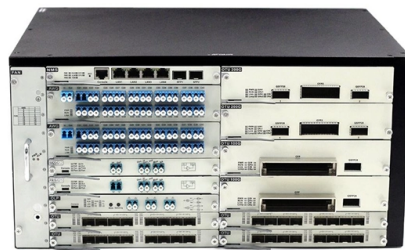


Price of Intelligent PLC Splitter for Costa Rica Rail Transit



Article Overview

Intelligent PLC splitters typically range from \$20 to \$200 per unit, depending on split ratio, insertion loss, and quality, with higher-end models offering enhanced performance and durability.

Overview

PLC (Planar Lightwave Circuit) splitters are passive optical devices used to divide a single optical signal into multiple outputs with uniform power, essential for FTTX, PON, and rail transit communication networks. They are valued for compact size, low insertion loss, high stability, and long-term reliability, making them suitable for demanding environments like rail transit systems.

Price Factors

The cost of PLC splitters depends on several key factors:

- **Split Ratio:** Common ratios include 1×2, 1×4, 1×8, 1×16, 1×32, and 1×64. Higher split ratios generally increase the price due to more complex internal waveguide structures.
- **Insertion Loss and Uniformity:** Lower insertion loss and better signal uniformity improve network performance but can increase cost.
- **Environmental Stability:** Splitters designed to withstand temperature extremes, vibration, and humidity—important for rail transit—may command premium prices

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