

Price of Fiber Optic Splitter



AI Overview

Fiber optic splitters typically range from \$20 to \$200 per unit, depending on type, splitting ratio, and quality. Price Overview The cost of a fiber optic splitter varies significantly based on technology, splitting ratio, and performance specifications. Modern PLC (Planar Lightwave Circuit) splitters are widely used in passive optical networks and are priced between \$20 and \$200 per unit. Lower-cost models (around \$20-\$50) usually have smaller splitting ratios like 1:2 or 1:4, while higher-end splitters with ratios up to 1:64, enhanced signal uniformity, and lower insertion loss can cost up to \$200. GPON splitters, commonly used in FTTH networks, also follow a similar pricing trend, with costs influenced by the number of outputs (e.g., 1x2, 1x8, 1x32) and the required optical performance. Factors Affecting Price Splitting Ratio: Higher output counts (e.g., 1x32 or 1x64) increase the cost due to more complex internal optical structures and higher insertion loss management. Fiber Type: Single-mode (SM) splitters for long-distance transmission are generally more expensive than multi-mode (MM) splitters. Connector Style: Pigtail-style splitters with permanently attached fibers may cost more than receptacle-style splitters that allow plug-in connections. Quality and Reliability: Premium splitters with low insertion loss, high environmental stability, and uniform signal distribution command higher prices. Application Environment: Outdoor-rated or industrial-grade splitters designed for extreme temperatures or harsh conditions may also increase unit cost. Practical Considerations When budgeting for fiber optic splitters, consider the total optical budget, including splitter loss, connector loss, and fiber attenuation, to ensure network reliability. For large-scale deployments, purchasing in bulk may reduce the per-unit cost. In summary, expect to pay \$20-\$200 per fiber optic splitter, with the exact price depending on the splitting ratio, technology, fiber type, and quality requirements. For precise pricing, suppliers like Alibaba, Fiber24, and Yizhi Fiber pro...

Article Content

1x4 Fiber Optic Splitter: Specs, Price & Buying Guide (2026 ...

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The FOA Reference For Fiber Optics

The Fiber Optic Association Fiber To The Home Handbook: For Planners, Managers, Designers, Installers And Operators Of FTTH - Fiber To The Home -

The FOA Reference For Fiber Optics

Each home needs to be connected to the local central office with singlemode fiber through an optical splitter. Every home will have a singlemode fiber link pulled into underground conduit or strung

Contact Us

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