

Optical Splitter Assembly Dimensions and Price



AI Overview

Optical splitter assemblies vary in size and price depending on type, fiber count, and packaging, with typical dimensions ranging from compact 1x2 or 1x3 modules to larger PLC splitter modules, and prices starting from tens to hundreds of dollars per unit.

Dimensions and Types

- 1. Fused Biconical Taper (FBT) Splitters**
Compact packaging, often used for 1x2, 1x3, or 1xN configurations. Fiber core sizes typically 200–250 μm , with lengths around 2 meters for standard assemblies (Ocean Optics SPLIT200-UV-VIS). Low insertion loss (~ 1 dB for 1x3 splitters) and low polarization sensitivity. Dimensions are small and mechanically stable, often integrated into protective housings for spectroscopic or network applications.
- 2. Planar Lightwave Circuit (PLC) Splitters**
Ideal for high fiber counts (1x4, 1x8, 1x16, 1x32, 1x64). Compact, flat modules with broad wavelength bandwidth (± 200 nm). Fixed uniform splitting ratios; custom ratios possible at higher setup costs. Can be packaged in bare fiber, connectorized modules, or inside/outside plant enclosures.
- 3. Micro-Optic Couplers**
Use lensed fiber collimators with optical elements. Ultra-broad bandwidth, high polarization extinction ratio, and excellent thermal stability. Slightly larger than FBT splitters due to integrated optical elements.

Connector Options LC, LC/APC, SC, SC/APC, FC, FC/APC, or connectorless configurations. Fiber jackets: 900 μm loose tube or 250 μm bare fiber.

Price Range

FBT splitters: Typically start around \$20–\$50 for small 1x2 or 1x3 units, depending on fiber type and connectors.

PLC splitters: Prices vary widely based on fiber count and packaging; small 1x4 modules may start around \$50–\$100, while high-count 1x32 or 1x64 modules can cost several hundred dollars per unit. Custom or high-power splitters (fusion or micro-optic) may exceed \$500, especially for specialized wavelength ranges or high-temperature operation.

Article Content

Beamsplitters

Precision Optical offers a wide selection of both standard and custom beam splitters of the following varieties: Cube, periscope, and penta prism beamsplitters, as well as custom shaped

Fused Fiber Optic Couplers / Splitters

Fused Fiber Optic Couplers / Splitters Thorlabs offers a varied selection of single mode (SM), polarization-maintaining (PM), multimode (MM), and double-clad

Design and development of an optical beam splitter assembly and

We have developed an optical monitoring system for position sensing with high accuracy. For this purpose, a universal Laser Beam Splitter Assembly (BSA) was designed and fabricated in

ABS PLC Splitter 1x16 Optic Splitters SC APC Price & Datasheet

ABS PLC Splitter 1x16 Optic Splitters SC APC Planar waveguide light optical distributor (PLC Splitter), is a kind of planar waveguide integrated optical device, it can be 1260nm ~ 1650nm

Optical Beamsplitters

Thorlabs offers a wide range of optical beamsplitters. Our plate beamsplitters have a coated front surface that determines the beam splitting ratio while the back surface is wedged and AR coated in

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

Below, I'll give you the complete specification, a real-world power budget example, the 2026 1x4 splitter price guide, and the exact ordering parameters you need to specify. If you're ready

Do You Know How to Place and Use the Optical Splitter?

In the realm of optical communication networks, the optical splitter serves a vital role in dividing and distributing optical signals efficiently. Understanding how to properly place and use an

Fiber Optic Splitters | PLC & FBT Optical Splitters

Explore our comprehensive selection of high-performance fiber optic splitters. We offer a variety of PLC splitter types, including ABS box, LGX cassette, and rack-mount options with multiple split ratios.

Fiber WDMs, Combiners, Splitters and Couplers

For a very cost-effective alternative configuration, combining the functions of a tap and monitor photodiode in a single unit, we invite you to review OZ Optics' OPM

PDF document

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Fiber Optic Splitters

Fiber Optic Splitters Clearfield leads the way with optical component technologies for PON splitting, C/W division multiplexing and optical circulators. These products are custom built to your unique split

Fiber Optic Splitters Factory

You can check our fiber optic splitters by PLC splitter in different packages or 1*N 2*N PLC fiber optic splitter. 15 Years of Manufacturing Experience, Custom &

OSP Optical Splitter Packages

The FIS Optical Splitter packaged in an OSP Cassette addresses environmental challenges with improved fiber protection which allows for quick installation in hardened environments and maximizes

Optical Splitters for Central Office/Headend

CommScope offers a portfolio of bare splitters in a wide range of styles, sizes and split ratios. Find out how the incorporation of fiber-optic splitters reduces the

Optical Beamsplitters | Beamsplitter Selection | Edmund Optics

Light can be split by percentage of overall intensity, wavelength, or polarization state. Edmund Optics offers plate, cube, pellicle, polka dot, or specialty prism Beamsplitters in a variety of anti-reflection

Optical Beamsplitters | Beamsplitter Selection | Edmund

Find top-quality Beamsplitters for laser systems & more. Shop a variety of beamsplitters at Edmund Optics for precision light splitting needs. [Click Here!](#)

Beamsplitters | Optics | DigiKey

Beamsplitters (Beam Splitters) are components that split light at a specified point. These are used in various optic systems including fiber optics. They can be filtered by the type (either cube or plate)

Ficha_Splitters

Cassette splitter is the most commonly used in the PON networks, and it has the complete protection for inner optical components and cable, as well as the convenient installation and easy to use, but its

Comprehensive Guide to Optical Splitters

An optical splitter is a crucial passive fiber optic device that splits and combines optical signals. It can distribute the optical energy transmitted through

Bulk Ethernet Cables: Cat5e, Cat6, Cat7 Bulk Cables

FS PLC Fiber Optic Splitters, Bare/Blockless/ABS/LGX Splitter/Rack Mount Types, support 1xN light distribution, with low IL and PDL for high-reliability

Rack Mount PLC Splitters Types Prices & Specifications

What is Rack Mount PLC Splitters? Rack Mount PLC Splitters is ranging from 1x2 ports to 2x64 ports. It is suitable for the use in telecommunication network, central office optical cable system and premise

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://umele-pestovani.eu>

Email: info@umele-pestovani.eu

Phone: +49 152 287 6349

Address: Neue Mainzer Straße 66-68, 60311 Frankfurt am Main, Germany

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