

Fiber Optic Splitter Model and Specification Table



AI Overview

Fiber optic splitters are available in various models including bare fiber, cassette, tray, and rack-mounted types, with specifications such as split ratio, insertion loss, wavelength range, and connector options.

Model / Type	Input / Output	Split Ratio	Insertion Loss	PDL	Wavelength Range	Connector Type	Packaging / Mounting	Notes
Bare Fiber PLC Splitter	1xN or 2xN	1:2, 1:4, 1:8, 1:16, 1:32, 1:64	≤ 3.8 dB	≤ 0.2 dB	1260–1650 nm	None (bare fiber)	Compact housing for splice trays, wall-mounted boxes, ODF	High-density networks, customizable split ratios, Telcordia GR-1209/GR-1221 compliant, CE/RoHS certified
Cassette Splitter	1xN	1:2 to 1:32	3.5–4.0 dB typical	≤ 0.2 dB	1260–1650 nm	SC/LC/FC (customizable)	Pigtail cassette	Complete protection for inner optical components, easy installation, commonly used in PON networks
Tray Splitter	1xN	1:2 to 1:32	3.5–4.0 dB typical	≤ 0.2 dB	1260–1650 nm	SC/LC/FC (customizable)	19" standard ODF or cabinet	Supports pigtail or adapter type, ensures fiber curvature radius, allows channel capacity increase
Rack Panel Splitter	1xN or 2xN	1:8 to 1:32	≤ 4.0 dB	≤ 0.2 dB	1260–1650 nm	SC/LC/FC (UPC or APC)	19" rack mount, 1U	Modular design, suitable for POL, PON, FTTX, CATV, DWDM/CWDM systems, GR-1209/GR-1221 qualified, GR-326 certified connectors
FBT Splitter (Fiber Bundle Technology)	1xN	1:2, 1:4, 1:8	3.5–4.5 dB	≤ 0.3 dB	1310–1550 nm	SC/LC/FC	Bare or connectorized	Traditional splitting method, lower uniformity than PLC, cost-effective for small split ratios

Key Notes on Fiber Splitters

- Split Ratios:** Most commonly powers-of-2 (1x2, 1x4, 1x8, etc.), but odd ratios (1x3, 1x5) are also used in some network designs.
- Insertion Loss:** Increases with higher split ratios; typically, each doubling of outputs reduces power by ~3 dB.
- Connector Options:** SC, LC, and FC connectors are standard; UPC or APC...

Article Content

PASSIVE OPTICAL SPLITTER

A Passive Optical Network (PON) is a fiber optic technology utilizing point-to-multipoint topology and optical splitters to deliver data from a single transmission point to multiple user endpoints. Passive

Product Datasheets

Glenair datasheets library. Download product specifications, performance data, and technical details for connectors, cables, and accessories.

Wiley Online Library

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

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

Fiber Optic PLC splitters

Optical splitters are used for connecting or splitting an optical signal into 2-128 signals usually from one source. They come in two versions: fused biconic tapered (FBT) splitters and planar lightwave circuit

Spec Sheet

It is available in various port configurations ranging from 1 or 2 inputs and 8 to 32 output ports. The Fiber Splitter Panel is ideal for Passive Optical LAN's and other singlemode applications requiring high

Fiber Optic Splitter: How It Works & Types Guide

This guide demystifies fiber optic splitters, explaining their design, operating principles, types, key specifications, and real-world applications.

Bare PLC Fiber Splitter Datasheet | FS

Planar lightwave circuit (PLC) splitter is a type of optical power management device that is fabricated using silica optical waveguide technology to distribute optical signals from Central Office (CO) to

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 are divided) and splitting architectures (how splitters are

Fiber Optic Splitter Coupler, Passive Optical Splitter

Please note that each 1x N Optical Splitter Coupler has its own specific INSERTION LOSS. It is the loss of signal power resulting from the insertion of a device in a

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

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The C2G Thunderbolt™ 5 USB-C Cable is Intel®-certified and designed for ultra-fast data transfer, high-resolution video, and powerful device charging.

Spec Sheet

The Fiber Splitter Cassettes are ideal for Passive Optical Network (PON) and other singlemode applications requiring high performance splitting of optical signals.

Introduction to Passive Optical Network Splitter Architectures

The configuration below has individual splitters at a central location, but addresses that are typically not reconfigurable by jumpers, so this configuration is a “distributed” split.

Ficha_Splitters

Micro-splitter is stronger of fiber circuit protection than bare fiber splitter, which is a miniaturization result of cassette splitter. It's mainly used for various of connection and distribution box body or network

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CORNING OPTICAL COMMUNICATIONS GENERIC SPECIFICATION

[1.] Fiber Optic Splitters- General Information [1.A] Scope: This document specifies the requirements for single-mode fiber optic splitters which are a class of couplers that typically have one input and

Introduction to Passive Optical Network Splitter Architectures

Fiber Broadband Association Technology Committee February 2025 The choice of splitter architecture for a passive optical network (PON) network can impact many aspects of a Fiber to the X (FTTx)

Optical Fiber Splitter Types — Complete Guide | TTI Fiber

Explore every type of optical fiber splitter: PLC vs FBT, 1×2 to 1×64 split ratios, indoor vs outdoor — with selection tips and insertion loss data.

CORNING OPTICAL COMMUNICATIONS GENERIC

Fiber optic splitter modules and the term "splitter" hereafter refer to and include a housing to protect the splitter device contained within during installation and throughout its operation life, and contain fiber

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Custom Maltego transforms. Contribute to michenriksen/maltego development by creating an account on GitHub.

Optical Splitters for Central Office/Headend

CommScope offers a portfolio of bare and connectorized splitters/couplers in a wide range of styles and split ratios, and splitter modules for inside plant (ISP) and

FTTH Optical Splitter Technical Specification

1.1 A range of application This specification applies to the optical splitter for FTTH communication network construction that meet the requests. 1.2 Classification 1.2.1 Optical splitters for FTTH are

-Teleweaver in China

How to well understand performance of a FBT fiber splitter and PLC optic splitters? The first important thing is to discover its Fiber Optic Splitter Insertion Loss

FHD® Cassette PLC Fiber Splitter Data Sheet | FS

Overview Planar lightwave circuit (PLC) splitter is a type of optical power management device that is fabricated using silica optical waveguide technology to distribute optical signals from

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Vocabulary list of GPT-4o (o200k_base) and GPT-4/GPT-3.5 (cl100k_base) tokenizers. Special tokens are excluded. - kaisugi/gpt4_vocab_list

Bare Fiber PLC Fiber Splitter Data Sheet | FS

FS Bare Fiber Splitters are engineered for high-density networks, offering exceptional scalability and reliability. FS PLC splitters come in a full range of 1xN and 2xN models, with customizable split ratios

The FOA Reference For Fiber Optics

Testing Fiber Optic Couplers, Splitters Or Other Passive Devices A passive device used to split or combine signals on fiber optics may be called a splitter, combiner

Contact Us

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