

Specifications of Fiber Optic Splitter Box



Article Overview

Fiber optic splitter boxes are passive devices that divide optical signals from a single input into multiple outputs, available in 1×N and 2×N models with PLC or FBT technology, supporting various split ratios, connector types, and packaging formats.

Overview

A fiber optic splitter box is a passive optical component used to distribute optical signals from a central office or optical line terminal (OLT) to multiple endpoints, such as optical network units (ONUs) or terminals (ONTs) in FTTH networks. These devices are essential for point-to-multipoint communication and are widely used in GPON, XGS-PON, and other PON standards.

Types of Splitters

- PLC (Planar Lightwave Circuit) Splitters
 - Provide uniform splitting, ideal for high split ratios (1×8, 1×16, 1×32)
 - Compact and suitable for large-scale deployments
 - Low insertion loss (≤ 3.8 dB) and low polarization dependent loss (≤ 0.2 dB)
 - Wide operating wavelength: 1260–1650 nm
 - Can be packaged in ABS plastic modules, mini modules, or bare fiber formats
- FBT (Fused Biconical Taper) Splitters
 - Cost-effective for small split ratios (1×2, 1×4)
 - Slightly less uniform than PLC, but suitable for simpler networks
 - Typically used in legacy or low-density applications...

Article Content

Nov 21, 2025

Fiber Optic Splitters | PLC & FBT Optical Splitters

Explore our comprehensive selection of high-performance fiber optic splitters. We offer a variety of PLC

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What is Fiber Optic Splitter and Types

This post provides a introduction to fiber optic splitters, their types, functions, and several popular Gcabling optical

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LW-OSB-16C Optical Splitter Box

Linkwell provides Optical Splitter Box made of high quality PC and ABS plastic alloy from 2 fibers to 64

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1x8 Fiber Optic PLC Splitter: Specs, Price & Power Budget Guide ...

BWNFiber manufactures 1×8 splitters in ABS box, LGX cassette, rack-mounted 19-inch 1U, bare fiber, and blockless

Feb 02, 2026

How Does a Fiber Optic Splitter Work

This post provides a introduction to how does a fiber optic splitter work, and optical fiber splitter application in FTTH.

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PLC Splitters | OEM Optical Communication Solutions | Corning

Corning's QuickPath™ PLC optical splitters reduce insertion loss and deliver high performance. These devices enable more effective

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32 Cores Optical Splitter Box, Fiber Optic Distribution Box

YFDB-32A Fiber Splitter Distribution Box Overview Fiber Splitter Distribution Box, also known as Optical Splitter Box, provides fiber

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Fiber Optic Splitter Box Installation and Use for Fiber Optic ...

In conclusion, the fiber optic splitter box is a vital component in fiber optic distribution systems, enabling the efficient

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The Technical Specifications for Fiber Distribution Boxes

The fiber distribution box, a crucial component in optical fiber networks, serves a dual purpose of managing and

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Optical Splitters for Central Office/Headend

CommScope offers a portfolio of bare and connectorized splitters/couplers in a wide range of styles and

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Introduction to Passive Optical Network Splitter Architectures

Fiber Broadband Association Technology Committee February 2025 The choice of splitter architecture for a passive optical network

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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

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Fiber Distribution & Termination Boxes — 80 Models ...

Fiber distribution boxes support multiple port configurations such as 8 port, 16 port, 24 port and 32 port, and can accommodate PLC

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ABS Box PLC Splitters Types Prices & Technical Specifications

What Is ABS Box PLC Splitters? ABS Box PLC Splitters is most commonly used in the PON networks. It provides the complete

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PLC Splitter, Fiber Splitters, Always Ready for PON & FTTX

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

Jan 12, 2026

8 12 Cores Fiber Optical Junction Box, Fiber Splitter Box

Fiber Splitter Distribution Box, also known as Fiber Optical Junction Box, provides fiber optic cable management for

Sep 16, 2025

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

Dec 31, 2025

Fiber Optic Splitter Box with 1X16 SC PLC Cassette IP65 Outdoor

BWN-SK18-16A Fiber Optic Splitter Box with 1X16 SC PLC cassette is designed to accommodate up to 16 subscribers PLC Splitter.

Jan 27, 2026

Fiber Optic Splitter: How It Works & Types Guide

This guide demystifies fiber optic splitters, explaining their design, operating principles, types, key specifications, and

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LGX Cassette 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

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Spec Sheet

The Fiber Splitter Panel is ideal for Passive Optical LAN 's and other singlemode applications requiring high performance splitting of

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Outdoor Fiber Optic Distribution Box Manufacturer

Fiber distribution terminal box mainly include fiber splice box, fiber splitter box, access terminal box for outdoor FTTH

Jan 25, 2026

Fiber-optic splitter

A fiber-optic splitter, also known as a beam splitter, is based on a quartz substrate of an integrated waveguide optical power

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MAY-OSB-3201 Optical Splitter Box

We provide Optical Splitter Box made of high quality PC and ABS plastic alloy from 2 fibers to 64 fibers splitting. MAY-OSB-3201

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