

Optical Splitter Telecom Grade 1 Splitter



AI Overview

A telecom-grade Level 1 optical splitter is a high-reliability, passive device that divides a single optical signal from an OLT into multiple outputs for ONTs, typically using PLC technology and designed for centralized FTTH deployment.

Overview A Level 1 optical splitter is used in one-stage splitting within FTTH networks, where the optical signal from the Optical Line Terminal (OLT) is split directly to multiple Optical Network Terminals (ONTs). Its basic configuration is: OLT → Optical Splitter → ONU/ONT. This setup is ideal for centralized distribution, maximizing the utilization of OLT ports and serving a large number of end-users efficiently.

Key Features

- Technology:** Most telecom-grade splitters use Planar Lightwave Circuit (PLC) technology for uniform signal distribution, low insertion loss, and high reliability.
- Split Ratios:** Common Level 1 split ratios include 1:2, 1:4, 1:8, 1:16, 1:32, and 1:64, depending on network design and subscriber density.
- Connectors:** Splitters are available with LC, SC, or FC connectors, often APC type for low back-reflection and minimal signal loss.
- Compliance:** Telecom-grade splitters typically meet Telcordia GR-1209-CORE, ISO, and CE standards, ensuring durability and field reliability.
- Passive Operation:** No power is required, reducing operational costs and maintenance needs.

Deployment Considerations

- Centralized Distribution:** Level 1 splitters are installed near the OLT in a central office or distribution hub. This is cost-effective for dense subscriber areas.
- Cascaded Networks:** In some networks, Level 1 splitters can be combined with Level 2 splitters (two-stage splitting) to extend coverage to dispersed users.
- Fiber Selection:** Backbone fibers connecting the OLT to the splitter typically range from 12 to 144 cores, while distribution fibers to end-users are selected based on local requirements.
- Environmental Hardening:** Modern telecom-grade splitters are designed for outdoor and indoor use, with miniaturized steel tube or micro-module packaging for space-constrained installations.

Advantages Scalability...

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It is made of engineering plastic that provides mechanical protection for fiber splice and joint; the screw lock ensures security; and two-layer design saves space and

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Split Ratios and Splitting Level of Optical Splitters

At the same time, higher split ratio splitters reduce bandwidth per ONU (optical network unit). And there will be increased optics cost either at OLT or ONU or both to achieve large optical

Fiber Optic Splitter Manufacturer | PLC & FBT Splitters

Spring Optical provides fiber optic splitters including PLC splitters and FBT couplers for FTTH and PON networks, offering low loss and stable performance.

Fiber Optic Splitter Manufacturer | PLC & FBT Splitters

At Spring Optical, we provide a complete range of fiber optic splitters including: PLC Splitters (Planar Lightwave Circuit) Optical Fiber Couplers (FBT type) These

The Working Principle and Application Scenarios of

Fiber optic splitters are essential passive devices in modern optical communication systems, enabling the division of a single light signal into multiple

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Fiber Optic PLC Splitters | FTTH & Telecom Use

Durable PLC splitters with ABS box, LGX, tray, and mini module types. Perfect for telecom operators and fiber distribution projects.

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 a single fiber to two or more fibers in a

Fiber Optic Splitter: How It Works & Types Guide

Learn how fiber optic splitters work, types (PLC, FBT), and uses in FTTH/data centers. Understand signal splitting, key specs, and how to choose

NOLITOY Lc Fused Optical Splitter and Lc Interface ...

About this item Telecomgrade durability: built to telecomgrade standards, this fiber optic distribution box withstands harsh environments for reliable outdoor and complex network performance, fiber optic

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.

Fiber Optic Splitter Telecom Grade: High-Quality PLC Solutions

Find telecom-grade fiber optic splitters with PLC technology, low insertion loss, and Telcordia GR-1209 compliance. Click to explore verified suppliers and customize your solution today.

Telecom Grade 1:2 Fiber Optic Splitter 1 to 2 FTTH Use Optical Splitter ...

Key attributes Type Fiber optic splitter Model Number 1:2 Place of Origin Guangdong, China Brand Name punaisgd Use FttH Warranty Time 1 year Network Wireless Lan Port 2 Power Source 1

PLC Fiber Splitter, Blockless Mini Module, SC/APC

These compact and durable splitters are ideal for applications such as FTTH, FTTX, PON, GPON, and other optical communication systems. With advanced PLC

Type of Splitters for FTTH

Type of Splitters for FTTH : In this article, I will discuss about fiber optic splitters that widely used in FTTH network. A lot of telecom site engineers

Optical Splitter 1 In 2 Out: A Comprehensive Guide

Learn about optical splitter 1 in 2 out basics, applications, design, performance, and installation from our comprehensive guide.

Fiber-optic splitter

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 distribution device, similar to a coaxial cable transmission

Fiber Optic Splitters | PLC & FBT Optical Splitters

Discover a wide range of reliable fiber optic splitters. Our PLC and FBT splitters offer low loss and various split ratios for FTTH, PON, and CATV networks.

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.

Contact Us

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