

Price of Second-Level Optical Splitter Networking



AI Overview

Second-level optical splitters (PLC type) typically cost between \$20 and \$200 depending on split ratio, quality, and specifications.

Overview of Second-Level Splitters

Second-level optical splitters are used in two-stage (cascaded) FTTH networks, where the first splitter divides the signal from the OLT (Optical Line Terminal) into several outputs, and the second-level splitter further distributes the signal closer to end-users, often in residential areas or communities (e.g., 1:8 or 1:16 split ratios). These splitters are passive, require no power, and are essential for cost-efficient network expansion.

Pricing Factors

The cost of second-level splitters depends on several factors:

- **Splitter Type:** PLC (Planar Lightwave Circuit) splitters are preferred for uniform signal distribution and larger splits, while FBT (Fused Biconical Taper) splitters are cheaper but less uniform.
- **Split Ratio:** Higher split ratios (e.g., 1:16, 1:32) generally increase the price due to more complex manufacturing and higher insertion loss control.
- **Quality and Specifications:** Premium splitters with lower insertion loss, better environmental stability, and higher uniformity command higher prices....

Article Content

Oct 12, 2025

What Is an Optical Splitter?

In today's optical network topologies, the advent of fiber optic splitter contributes to helping

May 07, 2026

What are the types of splitters? How to choose a splitter?

For the second-level splitter, the use of the splitter is generally divided into three situations: one is that the first-level

Apr 20, 2026

Understanding the Split Ratios and Splitting Level of Optical ...

Optical splitters play an important role in FTTH PON networks where a single optical input is split into multiple output,

Jun 30, 2026

The Working Principle and Application Scenarios of Fiber Optic Splitters

Explore the working principle of fiber optic splitters, their types, and real-world application scenarios in PON networks,

Oct 11, 2025

How Does a Fiber Optic Splitter Work

What is Fiber Optic Splitter? Fiber optic splitter is a passive optical device that includes multiple input and output ends.

Sep 07, 2025

Split Ratios and Splitting Level of Optical Splitters

Fiber optic splitters with higher split ratios can share the OLT optics and electronics costs as well as share feeder fiber

Sep 21, 2025

PLC Splitter, Fiber Splitters, Always Ready for PON

FS PLC Fiber Optic Splitters, Bare/Blockless/ABS/LGX Splitter/Rack Mount Types, support 1xN light

Dec 12, 2025

FTTH Distribution Architectures: Centralized Splitting vs Distributed ...

But since optical splitters must be terminated to the customer either through individual splices or connectors, the cost of distribution

May 16, 2026

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

Dec 30, 2025

Optical Splitters in Modern Networks

Optical splitters play a critical role in modern fiber-optic networks by enabling efficient signal distribution. As they

Mar 15, 2026

Fiber Optic Splitters – Selection Guide for FTTH Networks

According to Lightwave Online, FTTH growth is accelerating demand for high-performance

Dec 04, 2025

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

Jul 31, 2025

What is Fiber Optic Splitter and Types

What is a Fiber Optic Splitter? Fiber optic splitter is a passive optical device used to distribute optical signals, which

Aug 28, 2025

Optical Beamsplitters | Beamsplitter Selection | Edmund Optics

Edmund Optics offers plate, cube, pellicle, polka dot, or specialty prism Beamsplitters in a variety of anti-reflection coatings or

Oct 09, 2025

Optical Splitters in PON Networks | FTTH Guide

This article explores how optical splitters are applied in PON networks, comparing centralized and cascaded

Feb 05, 2026

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

Aug 04, 2025

Optical Splitters for Central Office/Headend

Find out how the incorporation of fiber-optic splitters reduces the number of fibers in the

Jan 03, 2026

Fiber Optic Splitters for PON Networks: 2025 Guide

In this guide, you'll learn how fiber splitters function in PON networks, the difference between PLC and FBT types, and

Nov 09, 2025

Split Ratios and Splitting Level of Optical Splitters

This article has reviewed some information about the split ratios and splitting level of fiber optic splitters. It is very essential to make

Mar 11, 2026

What Is Optical Splitter in FTTH?

Optical splitters play an important role in FTTH PON networks where a single optical input is split into multiple output,

May 14, 2026

Primary and secondary optical splitters in FTTH networks

In the application of primary splitter, the optical splitter can be installed in the central office, but in order to save the

Jun 20, 2026

Comprehensive Guide to Optical Splitters

An optical splitter is a crucial passive fiber optic device that splits and combines optical

Mar 29, 2026

PLC Splitter Pricing: Cost-Effective Solutions for Fiber Optic Networks

Comprehensive guide to PLC splitter pricing, featuring cost-effective solutions, quality-price comparisons, and long-term benefits for

Jul 25, 2025

Understanding The Split Ratios And Splitting Level Of Optical Splitters ...

This article has reviewed some information about the split ratios and splitting level of fiber optic splitters. It is very essential to make

Jan 05, 2026

FS Community

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

Dec 30, 2025

Level 1 and Level 2 Splitting in FTTH Networks-BLOG-Grandway

In the application of one-stage splitting in the FTTH network, the optical splitter can be centrally installed at the central station, but in

Sep 09, 2025

Optical Splitters: Split Ratios, Splitting Architectures & PON Network ...

Non-uniform splitters are custom-manufactured, so they cost 2-3x more than uniform splitters. They also require

Contact Us

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

Website: <https://ntmmgroup.co.za>

Email: sales@ntmmgroup.co.za

Phone: +27 82 471 2596

Address: Unit 7, Optic Park, 24 High-Tech Lane, Century City, Cape Town,
7441, South Africa

This document is for informational purposes only. Specifications subject to
change without notice.

