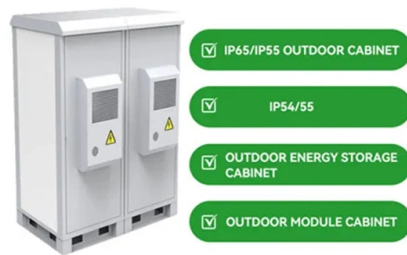


Loss Table for Telecom-Grade Optical Splitters



Overview

Free professional tool for ISP engineers and FTTH network designers. Instantly compute insertion loss, power at each subscriber port, and fade margin for PLC and FBT splitters — including dual cascade configurations. Power is divided equally among output ports. Excess loss accounts for manufacturing imperfections, typically 0. Covers GPON (1490 nm / 1310 nm), EPON, and RF video overlay (1550 nm). See power budget impact instantly, then download a CSV or PDF summary. Common values: 2, 4, 8, 16, 32, 64. Drop length Adds. This is often called Distribution Loss or Ideal Split Loss. The formula for the theoretical loss for each output port of a splitter with N output ports is: $L = 10 \log_{10}(N)$. In fiber optic networks, particularly in FTTx (Fiber to the x) and PON (Passive Optical Networks) deployments, splitters play a central role in distributing the optical signal from a single source to multiple destinations.

Article Content

Dec 21, 2025

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Calculate optical splitter insertion loss for PON, FTTH, and fiber distribution networks. Design passive splitter cascades for GPON, XGS-PON, and EPON systems.

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Fiber Splitter Calculator

Instantly compute optical power loss for PLC & FBT splitters with dual cascade support. Used by ISP engineers worldwide.

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Optical Splitter Insertion Loss Table

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How to Calculate Optical Splitter Loss

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Understanding Optical Splitter Loss

Understanding splitter ratios and insertion loss is fundamental to building a reliable fibre optic network. The key takeaway is that every split reduces optical power, and this loss must be ...

Contact Us

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