

PLC Fiber Splitter, ABS Box Type, Singlemode

PON & Datacom & LAN & LCP & CATV & FTTx Applications



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 Central Office (CO) to multiple premise locations. It features small size, high reliability, wide operating wavelength range and good channel-to-channel uniformity. These are widely used in PON networks to realize optical signal power splitting as a low-cost solution.

Features

- Low Insertion Loss $\leq 24\text{dB}$
- Low PDL (Polarization Dependent Loss) $\leq 0.3\text{dB}$
- Compact Design
- Fully Passive Optical Branching Device
- Wide Operating Wavelength: 1260nm to 1650nm
- Wide Operating Temperature: -40°C to 85°C
- Conformed to ISO14001, ISO9001, RoHS, WEEE, CE

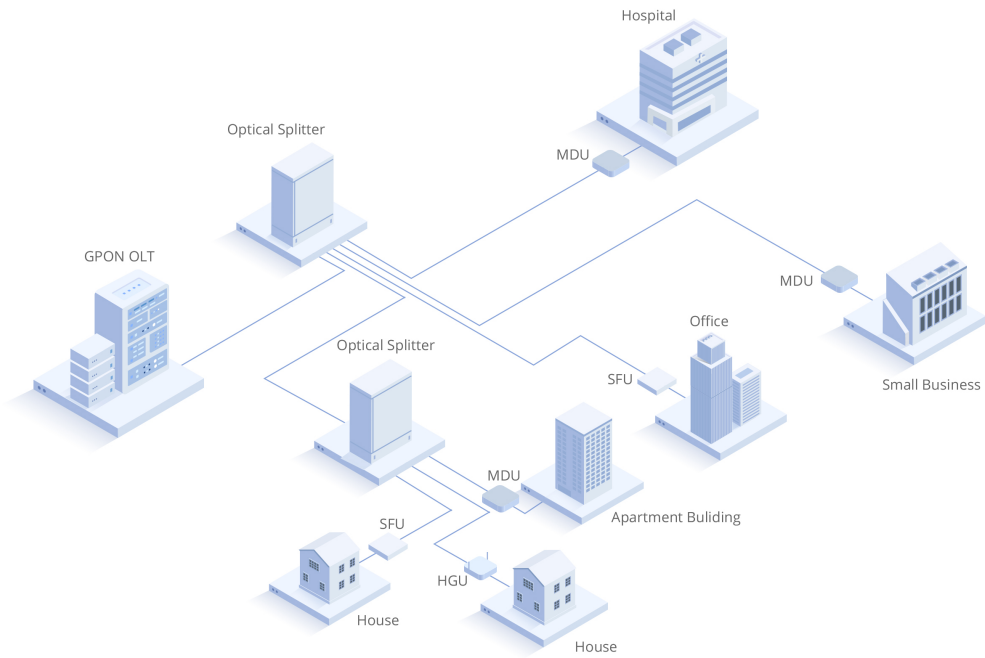
Application

- FTTX Systems
- LAN, WAN and Metro Networks
- Analog/Digital Passive Optical Networks
- CATV Networks
- Other Applications in Fiber Optic Systems

Technical Specification

Parameters	1×2	1×4	1×8	1×32	1×128
Operating Wavelength (nm)	1260~1650				
Fiber Type	G.657A1				
Insertion Loss (dB)	≤4.0	≤7.3	≤10.5	≤17.0	≤24
Loss Uniformity (dB)	≤0.4	≤0.6	≤0.8	≤1.5	≤3.0
Polarization Dependent Loss (dB)	≤0.2	≤0.2	≤0.2	≤0.3	≤0.3
Return Loss (dB)	≥55	≥55	≥55	≥55	≥50
Directivity (dB)	≥55				
Wavelength Dependent Loss (dB)	≤0.3	≤0.3	≤0.3	≤0.5	≤0.5
Connector Type	SC/APC	SC/APC	SC/APC	SC/APC	SC/UPC
Operating Temperature	-40 to 85°C(-40 to 185°F)				
Storage Temperature	-40 to 85°C(-40 to 185°F)				

Applications Configuration Diagram





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