FiberLight

PN: FLPLC-104-ST-250-SM-APC

Optical Fiber Splitter

TECHNICAL DATA SHEET

1 x 4 PLC Fiber Splitter, Splice/Pigtailed ABS Module, 2.0mm, SC/APC, Singlemode

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Product Description

The 1 × 4 PLC Fiber Splitter (ABS Module Pigtail Type) is a passive optical device based on Planar Lightwave Circuit (PLC) technology, designed to split one optical input signal into four output fibers with stable and uniform optical performance.

It is packaged in a durable ABS plastic module housing with 2.0mm pigtail fibers terminated with SC/APC connectors, making it suitable for FTTH networks, fiber distribution boxes (FDB), and optical distribution frames (ODF). It provides reliable performance, low insertion loss, and strong mechanical protection for field deployment.

Features:

- 1 × 4 optical splitting ratio
- PLC (Planar Lightwave Circuit) technology
- ABS module housing for protection
- 2.0mm pigtail fiber construction
- SC/APC connectorized ends
- Low insertion loss and high stability
- Excellent channel uniformity
- Wide operating wavelength range (1260–1650 nm)
- Strong mechanical durability for field use
- RoHS compliant
- Telcordia GR-1209 / GR-1221 qualified design

Application:

- FTTH (Fiber to the Home) networks
- GPON / EPON systems
- Fiber Distribution Boxes (FDB)
- Optical Distribution Frames (ODF)
- CATV networks
- Telecom access networks
- Data communication systems

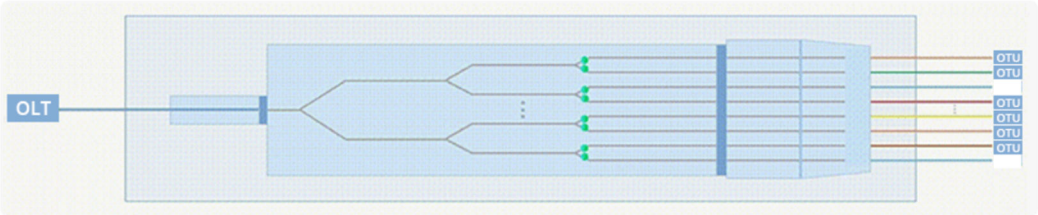
Optical Specifications

Parameter	Value
Configuration	1 × 4
Operating Wavelength	1260 ~ 1650 nm
Insertion Loss (Max)	≤ 7.2 dB
Uniformity	≤ 0.8 dB
Return Loss	≥ 60 dB (APC)
Polarization Dependent Loss (PDL)	≤ 0.2 dB
Directivity	≥ 55 dB
Wavelength Dependent Loss (WDL)	≤ 0.3 dB
Repeatability	≤ 0.1 dB
Stability	≤ 0.2 dB

Mechanical Specifications

Item	Specification
Package Type	ABS Module
Fiber Type	Single Mode OS2
Fiber Diameter	2.0 mm Pigtail
Connector Type	SC/APC
Housing Material	ABS Plastic Enclosure
Input/Output Length	1.0 m (Typical, customizable)
Operating Temperature	-40°C ~ +85°C

Uniform distribution of the optical signal



Widely used in FTTX projects and data communication centers