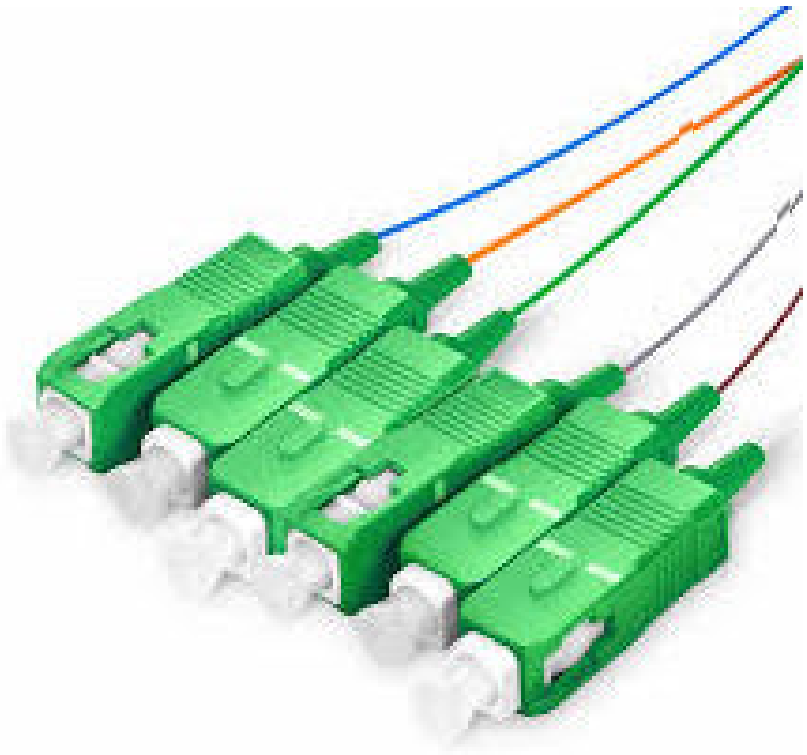
FiberLight

PN: FLPLC106SCAPC009

Optical Fiber Splitter

TECHNICAL DATA SHEET

1 x 6 PLC Fiber Splitter, Mini Module, 900μm, SC/APC, Single mode



1 x 6 PLC Fiber Splitter, Mini Module, 900µm, SC/APC, Single mode

Product Description

The 1 × 6 PLC Fiber Splitter is a passive optical device based on Planar Lightwave Circuit (PLC) technology, designed to split one optical input signal into six output ports with stable and uniform optical power distribution.

It is factory-terminated with SC/APC connectors, making it suitable for FTTH access networks, optical distribution frames (ODF), and fiber distribution boxes (FDB). It offers low insertion loss, high reliability, and excellent long-term stability in telecom environments.

Features:

- 1 × 6 optical splitting ratio
- PLC (Planar Lightwave Circuit) technology
- Mini module compact design
- 900µm tight-buffered fiber construction
- SC/APC connectorized ends
- Low insertion loss and high reliability
- Excellent channel uniformity
- Wide operating wavelength range (1260–1650 nm)
- Plug-and-play installation
- RoHS compliant
- Telcordia GR-1209 / GR-1221 qualified

Application:

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

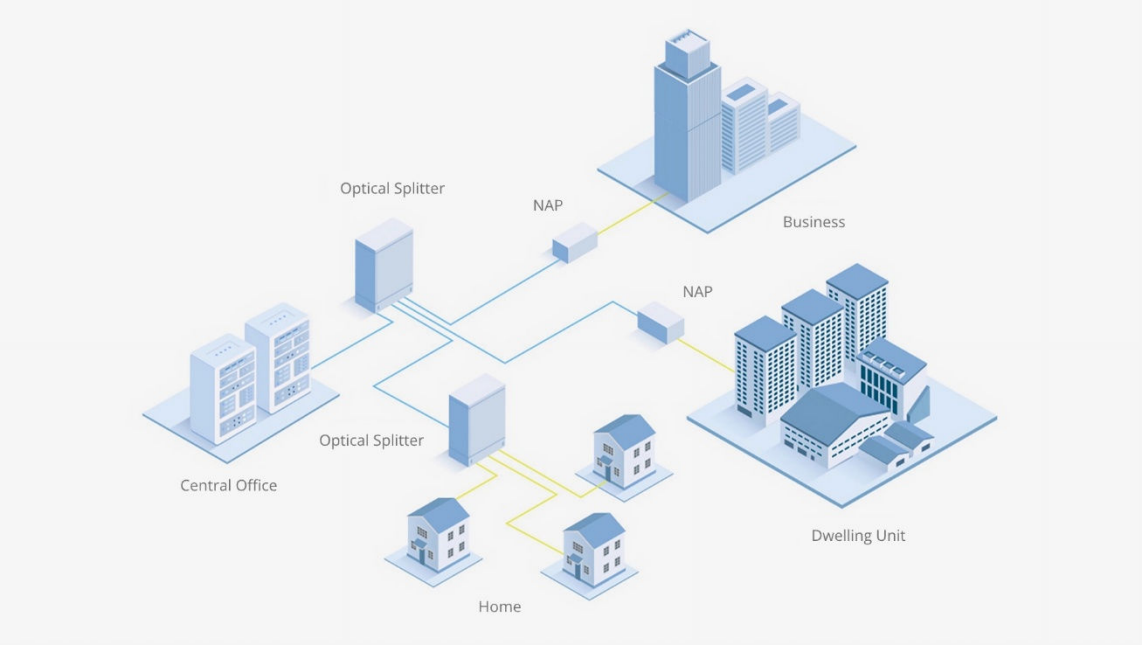
Optical Specifications

Parameter	Value
Configuration	1 × 6
Operating Wavelength	1260 ~ 1650 nm
Insertion Loss (Max)	≤ 8.2 dB
Uniformity	≤ 1.0 dB
Return Loss	≥ 60 dB
Polarization Dependent Loss (PDL)	≤ 0.3 dB
Directivity	≥ 55 dB
Wavelength Dependent Loss (WDL)	≤ 0.5 dB
Repeatability	≤ 0.1 dB
Stability	≤ 0.2 dB

Mechanical Specifications

Item	Specification
Package Type	Connectorized Splitter
Fiber Type	Single Mode OS2
Connector	SC/APC
Fiber Length	1.0 m (Typical, customizable)
Cable Jacket	LSZH / PVC
Operating Temperature	-40°C ~ +85°C

Widely used in FTTX projects and data communication centers



The high-quality fiber optic splitter ensures stable transmission