

Optical Fiber Splitter

TECHNICAL DATA SHEET

**1 x 16 PLC Fiber Splitter, Steel Tube,
Bare Fiber 250 μ m**



1x16 PLC Fiber Splitter, Steel Tube, Bare Fiber 250μm

Product Description

The 1 × 16 PLC Fiber Splitter is a passive optical device based on Planar Lightwave Circuit (PLC) technology, designed to split one optical input signal into sixteen outputs with stable and uniform optical power distribution.

It is packaged in a compact stainless steel tube with 250μm bare fiber, making it suitable for FTTH networks, GPON/EPON systems, fiber distribution frames (ODF), and fiber distribution boxes (FDB). It provides high reliability, low insertion loss, and excellent environmental stability for telecom and broadband access networks.

Features:

- 1 × 16 optical splitting ratio
- PLC (Planar Lightwave Circuit) technology
- Low insertion loss and high stability
- Excellent channel uniformity
- Wide operating wavelength range (1260–1650 nm)
- Compact stainless steel tube package
- Bare fiber 250μm design
- High reliability and long service life
- RoHS compliant
- Telcordia GR-1209 / GR-1221 qualified design

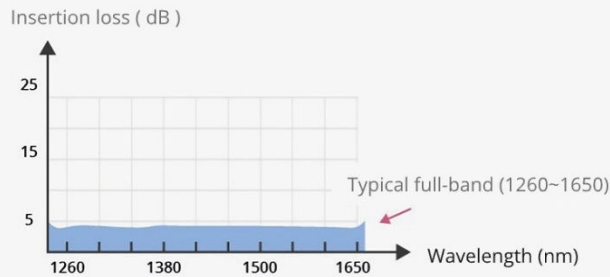
Application:

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

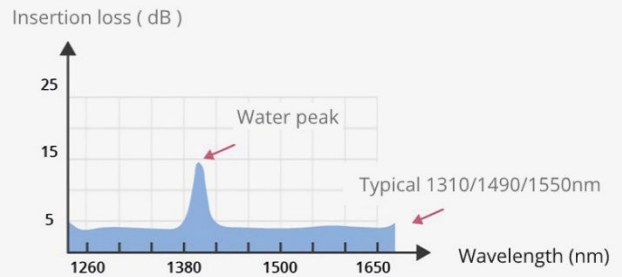
Optical Specifications

Parameter	Value
Configuration	1 × 16
Operating Wavelength	1260 ~ 1650 nm
Insertion Loss (Max)	≤ 13.5 dB
Uniformity	≤ 1.2 dB
Return Loss	≥ 55 dB
Directivity	≥ 55 dB
Polarization Dependent Loss (PDL)	≤ 0.3 dB
Wavelength Dependent Loss	≤ 0.5 dB
Repeatability	≤ 0.1 dB
Stability	≤ 0.2 dB

Full bandwidth wavelength. Improved compatibility and flexibility

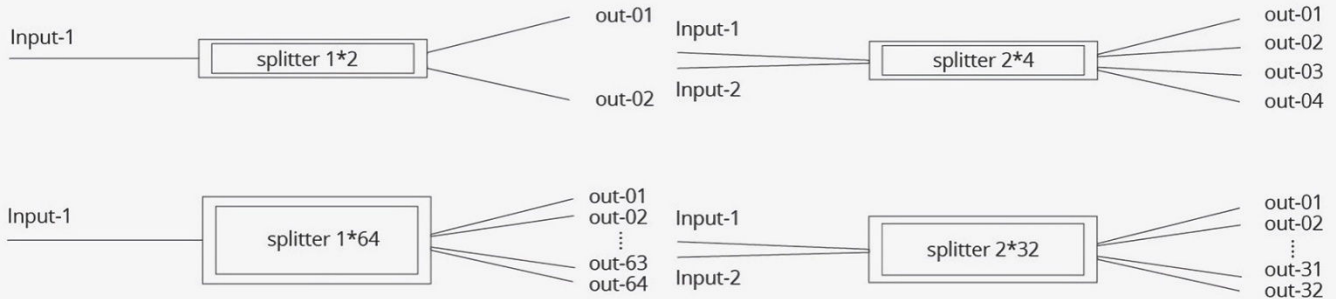


PLC Splitter
Without water peak, 1260~1650nm full-band work

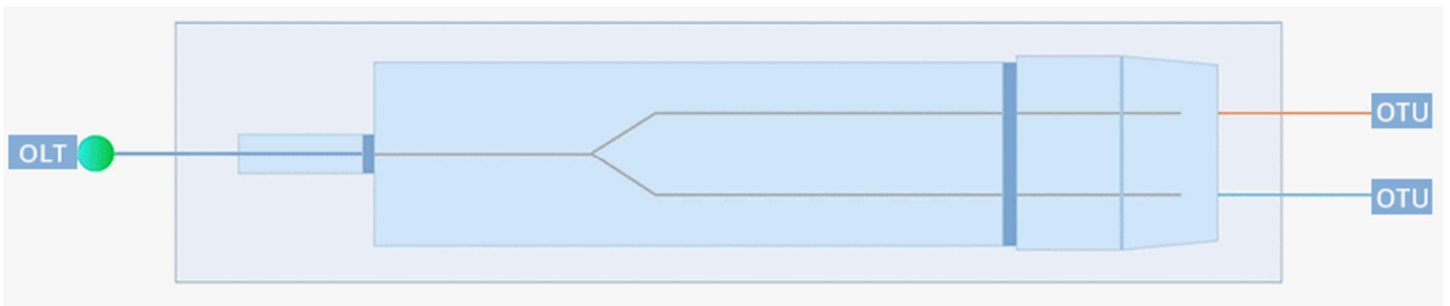


FBT (Fused) Splitter
With water peaks, can't working in full band

Multiple customizable modes



Uniform distribution of the optical signal



Widely used in FTTX projects and data communication centers

