FiberLight

PN: FLPLC102ST

# Optical Fiber Splitter

## TECHNICAL DATA SHEET

## 1 x 2 PLC Fiber Splitter, Steel Tube, Bare Fiber 250μm

# 1x 2 PLC Fiber Splitter, Steel Tube, Bare Fiber 250μm

## Product Description

The 1 × 2 PLC Fiber Splitter is a passive optical power management device based on Planar Lightwave Circuit (PLC) technology. It is designed to evenly distribute optical signals from one input fiber into two output fibers with low insertion loss and excellent uniformity.

The splitter is packaged in a compact steel tube housing with 250μm bare fiber, making it ideal for splicing trays, optical distribution frames (ODF), fiber distribution boxes (FDB), and FTTH passive optical networks.

## Features:

- 1 × 2 optical signal splitting
- PLC technology for uniform power distribution
- Low insertion loss
- Low polarization dependent loss (PDL)
- Excellent channel uniformity
- Wide operating wavelength range
- Compact steel tube package
- 250μm bare fiber design
- High reliability and stability
- Telcordia and RoHS compliant

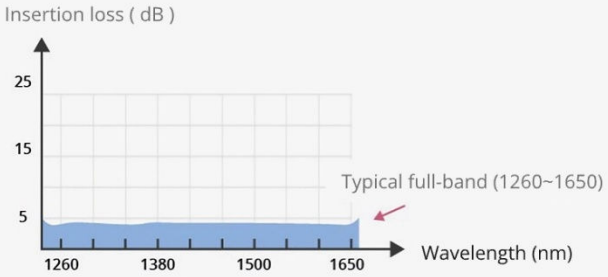
## Application:

- FTTH (Fiber to the Home)
- Passive Optical Networks (PON)
- GPON / EPON Systems
- Optical Distribution Frames (ODF)
- Fiber Distribution Boxes (FDB)
- CATV Networks
- Telecommunication Networks
- Data Communication Systems

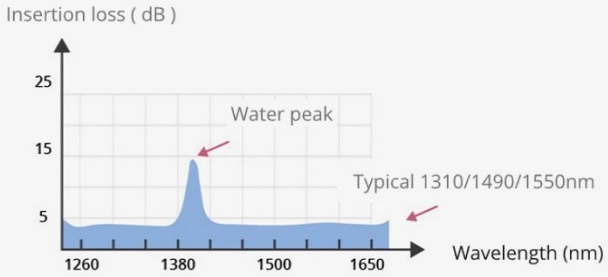
## Optical Specifications

| Parameter | Value |
|---|---|
| Configuration | 1 × 2 |
| Operating Wavelength | 1260 ~ 1650 nm |
| Insertion Loss (Max) | ≤ 4.0 dB |
| Uniformity | ≤ 0.6 dB |
| Return Loss | ≥ 55 dB |
| Directivity | ≥ 55 dB |
| PDL | ≤ 0.2 dB |
| WDL | ≤ 0.3 dB |
| Repeatability | ≤ 0.1 dB |
| Loss Stability | ≤ 0.2 dB |

# Full bandwidth wavelength. Improved compatibility and flexibility

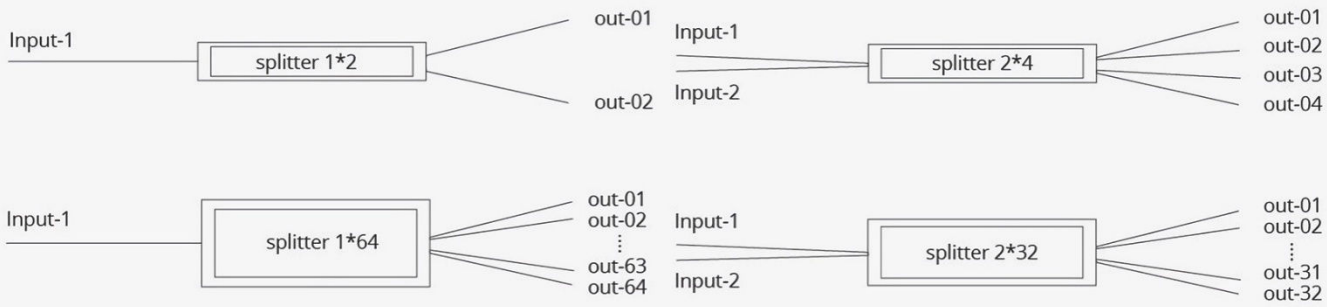



PLC Splitter
Without water peak, 1260~1650nm full-band work

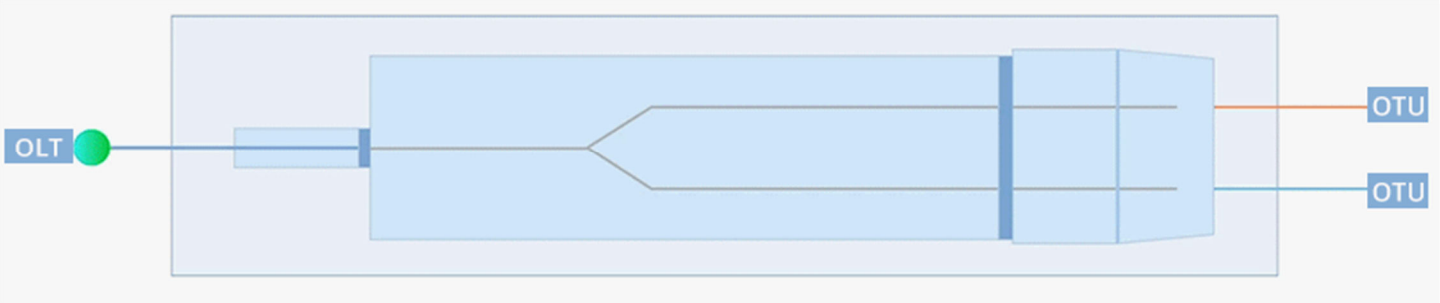



FBT (Fused) Splitter
With water peaks, can't working in full band

# Multiple customizable modes



## Uniform distribution of the optical signal




## Widely used in FTTX projects and data communication centers