

**Optical Fiber Splitter**

**TECHNICAL DATA SHEET**

**1 x 32 PLC Fiber Splitter, Steel Tube,  
Bare Fiber 250 $\mu$ m**



## **1x32 PLC Fiber Splitter, Steel Tube, Bare Fiber 250µm**

### **Product Description**

The 1 × 32 PLC Fiber Splitter is a high-density passive optical component based on Planar Lightwave Circuit (PLC) technology, designed to split one optical input signal into thirty-two output fibers with uniform power distribution and high stability.

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 high-capacity optical distribution boxes. It ensures low insertion loss, excellent channel uniformity, and long-term reliability in harsh environments.

### **Features:**

- 1 × 32 optical splitting ratio
- PLC (Planar Lightwave Circuit) technology
- Stable and uniform power distribution
- Low insertion loss design for high port count
- Excellent channel uniformity
- Wide operating wavelength range (1260–1650 nm)
- Compact stainless steel tube package
- Bare fiber 250µm structure
- High reliability and long service life
- RoHS compliant
- Telcordia GR-1209 / GR-1221 qualified design

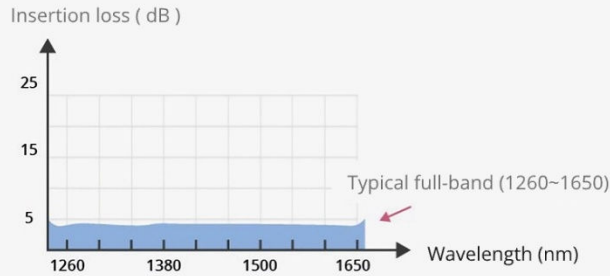
**Application:**

- 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

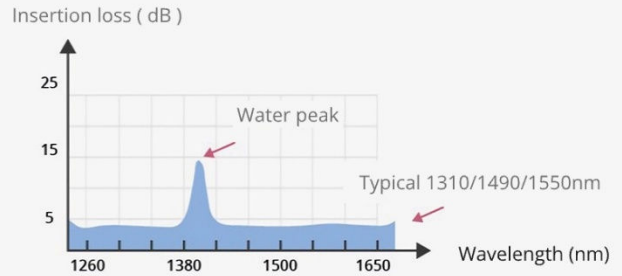
**Optical Specifications**

| Parameter                         | Value          |
|-----------------------------------|----------------|
| Configuration                     | 1 × 32         |
| Operating Wavelength              | 1260 ~ 1650 nm |
| Insertion Loss (Max)              | ≤ 17.0 dB      |
| Uniformity                        | ≤ 1.5 dB       |
| Return Loss                       | ≥ 55 dB        |
| Directivity                       | ≥ 55 dB        |
| Polarization Dependent Loss (PDL) | ≤ 0.4 dB       |
| Wavelength Dependent Loss (WDL)   | ≤ 0.8 dB       |
| Repeatability                     | ≤ 0.1 dB       |
| Stability                         | ≤ 0.2 dB       |

## Full bandwidth wavelength. Improved compatibility and flexibility

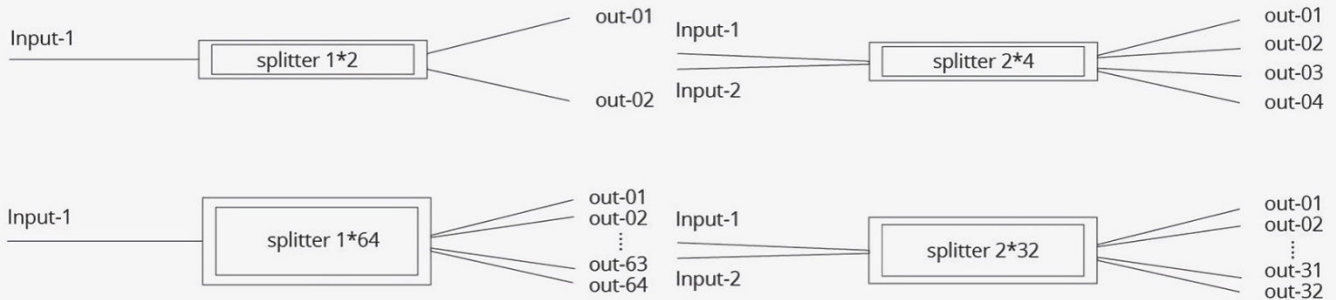


**PLC Splitter**  
Without water peak, 1260~1650nm full-band work

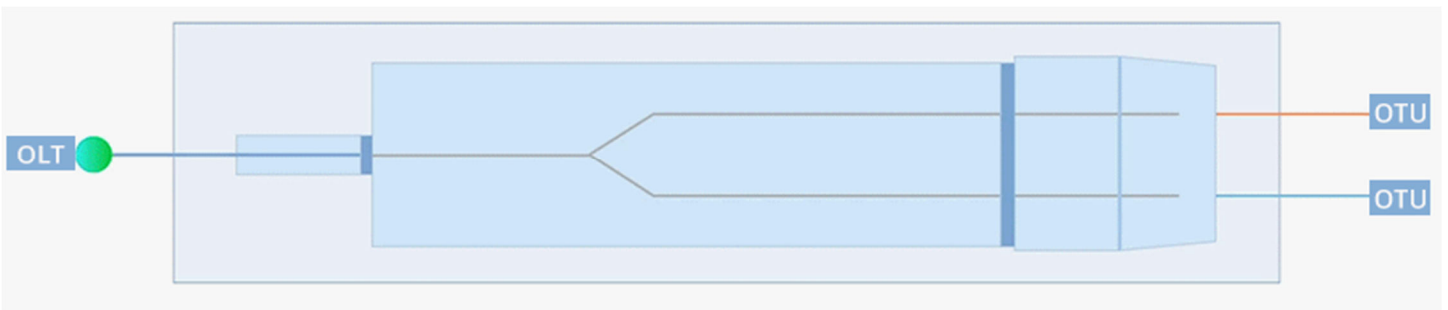


**FBT (Fused) Splitter**  
With water peaks, can't working in full band

## Multiple customizable modes



## Uniform distribution of the optical signal



## Widely used in FTTX projects and data communication centers

