

# Blockless PLC Fiber Splitter, Mini Module, Singlemode

Data Center & Cloud Computing Infrastructure Solutions



## Overview

Planar lightwave circuit (PLC) splitter is a type of optical power management device that is fabricated using silica optical waveguide technology to distribute optical signals from Central Office (CO) to multiple premise locations. It features small size, high reliability, wide operating wavelength range and good channel-to-channel uniformity. These are widely used in PON networks to realize optical signal power splitting as a low-cost solution.

FIBLINE provides whole series of 1xN and 2xN splitter products that are tailored for specific applications.

## Application

- FTTX Systems
- LAN, WAN and Metro Networks
- Analog/Digital Passive Optical Networks
- CATV Networks
- Other applications in fiber optic systems

## Features

- » Low Insertion Loss.
- » Low PDL (Polarization Dependent Loss)
- » Compact Design.
- » Exceptional Reliability and Stability.
- » Wide Operating Wavelength: From 1260nm to 1650nm.
- » Wide Operating Temperature: From -20°C to 70°C.
- » Conformed to RoHS

## PLC FIBER SPLITTER, STEEL TUBE, BARE FIBER 250MM, SINGLEMODE

## Technical Specification

| Parameters                       | 1×2                           | 1×4  | 1×8   | 1×16  | 1×32  | 1×64  |
|----------------------------------|-------------------------------|------|-------|-------|-------|-------|
| Operating Wavelength (nm)        | 1260~1650                     |      |       |       |       |       |
| Fiber Type                       | G.657A1 or customer specified |      |       |       |       |       |
| Insertion Loss (dB)              | ≤4.4                          | ≤7.6 | ≤10.9 | ≤13.9 | ≤17.3 | ≤21.4 |
| Loss Uniformity (dB)             | 0.4                           | 0.6  | 0.8   | 1.2   | 1.5   | 2.0   |
| Polarization Dependent Loss (dB) | 0.2                           | 0.2  | 0.2   | 0.25  | 0.3   | 0.35  |
| Return Loss (dB)                 | ≥50                           | ≥50  | ≥50   | ≥50   | ≥50   | ≥50   |
| Directivity (dB)                 | ≥55                           | ≥55  | ≥55   | ≥55   | ≥55   | ≥55   |
| Wavelength Dependent Loss (dB)   | 0.3                           | 0.3  | 0.3   | 0.5   | 0.5   | 0.5   |
| Operating Temperature (°C)       | -20~70                        |      |       |       |       |       |

Storage Temperature (°C) -40~85

| PRODUCT CODE |                        |
|--------------|------------------------|
| FOR 1X2      | FO-PLC-M-G657A1-A1X2A  |
| FOR 1X4      | FO-PLC-M-G657A1-A1X4A  |
| FOR 1X8      | FO-PLC-M-G657A1-A1X8A  |
| FOR 1X16     | FO-PLC-M-G657A1-A1X16A |
| FOR 1X32     | FO-PLC-M-G657A1-A1X32A |
| FOR 1X64     | FO-PLC-M-G657A1-A1X64A |

**Note:**

1. Specified without connectors.
2. Add an additional 0.2dB loss per connector.

## PLC FIBER SPLITTER, STEEL TUBE, BARE FIBER 250MM, SINGLEMODE

## Technical Specification

| Parameters                       | 2×2                           | 2×4  | 2×8   | 2×16  | 2×32  | 2×64  |
|----------------------------------|-------------------------------|------|-------|-------|-------|-------|
| Operating Wavelength (nm)        | 1260~1650                     |      |       |       |       |       |
| Fiber Type                       | G.657A1 or customer specified |      |       |       |       |       |
| Insertion Loss (dB)              | ≤4.2                          | ≤7.5 | ≤11.0 | ≤14.5 | ≤17.5 | ≤21.0 |
| Loss Uniformity (dB)             | 0.8                           | 1    | 12    | 1.5   | 1.8   | 2.0   |
| Polarization Dependent Loss (dB) | 0.2                           | 0.3  | 0.3   | 0.3   | 0.3   | 0.5   |
| Return Loss (dB)                 | ≥50                           | ≥50  | ≥50   | ≥50   | ≥50   | ≥50   |
| Directivity (dB)                 | ≥55                           | ≥55  | ≥55   | ≥55   | ≥55   | ≥55   |
| Wavelength Dependent Loss (dB)   | 0.3                           | 0.3  | 0.3   | 0.5   | 0.5   | 0.5   |
| Operating Temperature (°C)       | -20~70                        |      |       |       |       |       |

Storage Temperature (°C) -40~85

| PRODUCT CODE |                        |
|--------------|------------------------|
| FOR 2X2      | FO-PLC-M-G657A1-A2X2A  |
| FOR 2X4      | FO-PLC-M-G657A1-A2X4A  |
| FOR 2X8      | FO-PLC-M-G657A1-A2X8A  |
| FOR 2X16     | FO-PLC-M-G657A1-A2X16A |
| FOR 2X32     | FO-PLC-M-G657A1-A2X32A |
| FOR 2X64     | FO-PLC-M-G657A1-A2X64A |

**Note:**

1. Specified without connectors.
2. Add an additional 0.2dB loss per connector.