# Planar Light Wave Circuit (PLC) Splitters - Blockless

Planar Light Wave Circuit (PLC) Splitters is a type of optical power management device that is fabricated using silica optical waveguide technology. It is small size, high reliability, wide operating wavelength range and good channel uniformity. It is widely used in PON networks to realize optical signal power splitting.

## Features

- Low Insertion Loss
- Low PDL
- High Reliability
- High Stability
- Good Channel Uniformity

## Applications

- FTTH
- CATV
- PON

## Technical Specification

| Parameter | Value | | | | | |
|---|---|---|---|---|---|---|
| Type | 1x2 | 1x4 | 1x8 | 1x16 | 1x32 | 1x64 |
| Operating Wavelength (nm) | 1260-1650 | | | | | |
| Insertion Loss (dB) | 3.8 | 7.1 | 10.2 | 13.5 | 16.8 | 20.1 |
| Loss Uniformity(dB) | 0.6 | 0.6 | 0.8 | 1.0 | 1.5 | 2.0 |
| PDL(dB) | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 |
| Return Loss (dB) | 55 | 55 | 55 | 55 | 55 | 55 |
| Directivity (dB) | 55 | 55 | 55 | 55 | 55 | 55 |
| Wavelength Dependent Loss (dB) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Pigtail Length(m) | 1.0 (±0.1) or customer specified | | | | | |
| Fiber Type | ITU G657A1 or customer specified | | | | | |
| Operating Temperature (ºC) | -40 ~ 85 | | | | | |
| Storage Temperature(ºC) | -40 ~ 85 | | | | | |
| Type | 2x2 | 2x4 | 2x8 | 2x16 | 2x32 | 2x64 |
| Operating Wavelength (nm) | 1260-1650 | | | | | |
| Insertion Loss (dB) | 4.1 | 7.4 | 10.5 | 13.8 | 17.1 | 20.3 |
| Loss Uniformity(dB) | 0.6 | 0.6 | 0.8 | 1.0 | 1.5 | 2.0 |
| PDL(dB) | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 |
| Return Loss (dB) | 55 | 55 | 55 | 55 | 55 | 55 |
| Directivity (dB) | 55 | 55 | 55 | 55 | 55 | 55 |
| Wavelength Dependent Loss (dB) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |

| Parameter | Values |
|---|---|
| Pigtail Length(m) | 1.0 (±0.1) or customer specified |
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| Storage Temperature(ºC) | -40 ~ 85 |

## Ordering Information

| Part Code | Description |
|---|---|
| 3C-PLC-BLY-ZZZ | Planar Light Wave Circuit (PLC) Splitters - Blockless |

Y-input and output (102-1x2, 108-1x8, 132-1x32, 202-2x2, 208-2x8, 232-2x32
104-1x2, 116-1x16, 164-1x64, 204-2x4, 216-2x16, 264-2x64)
ZZZ-Connector (FCP=FC/PC, FCA=FC/APC, LCP=LC/PC, LCA=LC/APC,
SCP=SC/PC, SCA=SC/APC)