

PLC Splitter Specification

Description:

Planar Lightwave Circuit (PLC) Splitter is a passive component used for uniformly splitting or combining the optical signals inside the fiber. The PLC Splitter is built based on accurate alignment system and the mature manufacture technology.

The PLC Splitter is widely used in optical communication systems, passive optical network (PON), fiber CATV and test equipment .It is fully compliant with Telcordia GR-1209/1221 reliability qualification requirement.

Features:

- *Low Insertion loss and low PDL (Polarization Dependent Loss)
- *Good Uniformity
- *Wide Operating wavelength range 1260nm to 1650nm
- *Compact Design
- *High Reliability and Stability
- *Telcordia GR-1209/1221 Compliance

Applications:

- * FTTX System
- * PON Networks CATV
- * Networks Optical Signal
- * Distribution

Performance Parameters

1xN Series

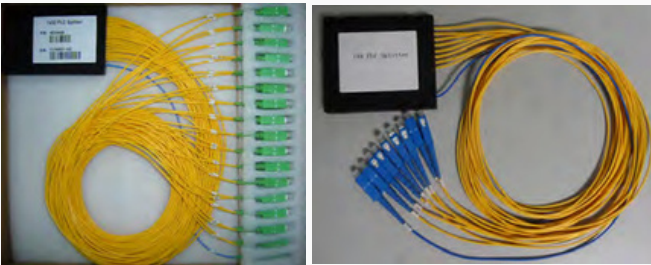
Parameter Operating	1×2	1×4	1×8	1×16	1×32	1×64
wavelength	1260~1650					
Insertion loss(at	≤3.8	≤7.1	≤10.4	≤13.6	≤16.9	≤21.2
Channel uniformity	≤0.8	≤0.8	≤1.0	≤1.4	≤1.6	≤2.0
PDL (dB)	≤0.3	≤0.3	≤0.3	≤0.3	≤0.3	≤0.5
Return loss (dB)	≥55 (Without Connector); ≥50 (UPC); ≥55(APC).					
Directivity (dB)	≥55					
Operating temperature(°C)	-40~85					

2xN Series

Parameter Operating	2x2	2x4	2x8	2x16	2x32	2x64
wavelength Insertion	1260~1650					
loss(at Channel	≤4.4	≤7.7	≤10.8	≤14.1	≤17.4	≤20.7
uniformity	≤0.8	≤1.0	≤1.2	≤1.7	≤2.0	≤2.5
PDL (dB) Return	≤0.3	≤0.3	≤0.3	≤0.3	≤0.3	≤0.5
loss (dB)	≥55(WithoutConnector); ≥50(UPC);≥55(APC).					
Directivity (dB)	≥55					
Operating temperature(°C)	-40~85					

Note: Above specifications are for device without connector. For the Insertion loss with connector, please add 0.3dB for each channel.

Standard Module Type



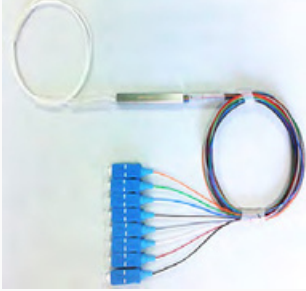
- 1.Metal Box and ABS BOX
- 2.FC, SC, ST etc connectors are available
- 3.900um, 2.0mm fan out cable
- 4.G.657A fiber or as required
5. Fan out cable color: Input-Blue; Output-Yellow; or as required
- 6.Fan out length: 1.5m (2.0mm) or 0.5m (0.9mm) or as required

1xN Series	1x2	1x4	1x8	1x16	1x32	1x64
Module dimension (LxWxH)(mm)	100x80x10	100x80x10	100x80x10	120x80x18	120x80x18	140x114x18
2xN Series	2x2	2x4	2x8	2x16	2x32	2x64
Module dimension (LxWxH)(mm)	100x80x10	100x80x10	100x80x10	120x80x18	120x80x18	140x114x18

Metal LGX Box

1xN Series	1x2	1x4	1x8	1x16	1x32
Module dimension (LxWxH)(mm)	130x122x29	130x122x29	130x122x29	130x122x29	130x122x29
2xN Series	2x2	2x4	2x8	2x16	2x32
Module dimension (LxWxH)(mm)	130x122x29	130x122x29	130x122x29	130x122x29	130x122x29

Mini Module Type



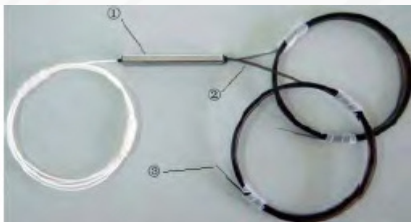
1. Stainless packaging FC, SC, ST etc
2. connectors are available 0.9mm fan out
3. loose tube
4. Fan out color: White or as required
5. Fan out length: 0.5m or as required

1xN Series	1x2	1x4	1x8	1x16	1x32	1x64
Module dimension (L×W×H)(mm)	60x7x4	60x7x4	60x7x4	70x12x4	80x20x6	100x40x6
2xN Series	2x2	2x4	2x8	2x16	2x32	2x64
Module dimension (L×W×H)(mm)	60x7x4	60x7x4	60x7x4	70x12x4	80x20x6	100x40x6



SC connectors and adaptors are available

1xN Series	1x2	1x4	1x8	1x16	1x32	1x64
Module dimension (L×W×H)(mm)	130x100x25	130x100x25	130x100x25	130x100x50	130x100x102	130x100x206
2xN Series	2x2	2x4	2x8	2x16	2x32	2x64
Module dimension (L×W×H)(mm)	130x100x25	130x100x25	130x100x50	130x100x50	130x100x102	130x100x206



Bare device Type

1. Stainless packaging
2. Input: 0.9mm fan out loose tube; length: 0.5m
3. Output: bare ribbon fiber; length: 0.5m

1xN Series	1x2	1x4	1x8	1x16	1x32	1x64
Module dimension (L×W×H)(mm)	50x4x4	50x4x4	50x4x4	50x7x4	50x7x4	60x12x4
2xN Series	2x2	2x4	2x8	2x16	2x32	2x64
Module dimension (L×W×H)(mm)	50x4x4	50x4x4	50x4x4	60x7x4	60x7x4	60x12x4

Tray Module Type



1. Mainly apply to ODC (Optical Distribution Cabinet)
2. Compact design
3. FC, SC, ST etc connectors and adaptors are available

1xN Series	1x2	1x4	1x8	1x16	1x32	1x64
Module dimension (L×W×H)(mm)	302x180x25	302x180x25	302x180x25	302x180x25	302x180x50	302x180x100
2xN Series	2x2	2x4	2x8	2x16	2x32	2x64
Module dimension (L×W×H)(mm)	302x180x25	302x180x25	302x180x25	302x180x25	302x180x50	302x180x100

19" Rack-mount Module Type



Standard 19" packaging, mainly apply to ODF, offer FC, SC, ST etc connectors and adaptors
Dimension: 1U for 1x4, 1x8, 1x16, 1x32, 2x4, 2x8, 2x16, or 2U for 1x64, 2x32 and 2x64