

Introduction

Fiber Optic Splitter "PLC Splitter" is a passive optical splitter based on optical semiconductor technology. A typical PLC splitter consists of a PLC chip along with input and output arrays, the number of which depends on the split ratio, splitters are used to evenly divide one or two optical signals into multiple optical signals with a various of 1xN and 2xN, such as 1x2 to 64 or 2x2 to 64 split ratios, PLC Splitter is terminated with SC, SC/APC, LC and LC/APC adapter as the input and output connecting. All PLC Splitters provide excellent optical performance, splitter is most commonly used in the PON and FTTx Networks.



Application

Fiber Optic Splitter "PLC Splitter" is a device that is PLC type devices have high performance in terms of low insertion loss, low PDL high return loss and excellent uniformity over a wide wavelength range from 1260nm to 1650nm, a certain extent, fiber optic connection affect the reliability and performance of optical transmission systems.

- Ideal for FTTH/FTTX network
- Optical communication networks
- PON passive networks
- Good uniformity and low insertion loss
- High Polarization Extinction Ratio & Excellent Uniformity

Operation Features

Rack Mounted Splitter is a perfect solution for commonly used in the PON networks. It is widely used where needed for a quick connection, providing a quick assembly and stable performance with the following features

- Compact design available in different shapes according of uses
- Low insertion loss and low PDL
- High reliability
- Wide wavelength range 1260nm-1650nm
- Large operating temperature range



Mechanical Performance Test compliance:

- Adapter types: SC, SC/APC, LC and LC/APC other connectors are available
- Material: High-quality powder coated cold rolled steel or APS material or APS
- Fiber type: SM
- Insert loss Max: <16.9 dB for 1x32 splitter
- PDL Max: <0.3 dB
- Directivity: 55 dB
- Return Loss Min: 50 (55) dB
- Operation Temperature: -40 to +60°C
- Storage Temperature: -40 to +70°C
- Color: RAL 9004 (black) or RAL7035 (grey)

1xN PLC Splitter Specifications							
Port Configuration		1x2	1x4	1x8	1x16	1x32	1x64
Operating Wavelength (nm)		1260~1650					
Insertion Loss (dB)	Typical	3.7	6.8	10.0	13.0	16.0	19.5
	Max	4.0	7.2	10.5	13.5	16.9	21.0
Loss Uniformity(dB)	Max	0.4	0.6	0.8	1.2	1.5	2.5
Return Loss (dB) (S/P Grade)	Min	50/55	50/55	50/55	50/55	50/55	50/55
Polarization Dependent Loss(dB)	Max	0.2	0.2	0.3	0.3	0.3	0.4
Directivity (dB)	Min	55	55	55	55	55	55
Wavelength Dependent Loss(dB)	Max	0.3	0.3	0.3	0.5	0.5	0.8
Temperature Stability (-40~85 °C) (dB)	Max	0.5	0.5	0.5	0.8	0.8	1.0
Note: All the data above does not include connectors, Add an additional 0.2dB loss per connector.							

2xN PLC Splitter Specifications							
Port Configuration		2x2	2x4	2x8	2x16	2x32	2x64
Operating Wavelength (nm)		1260-1650					
Insertion Loss (dB)	Typical	3.8	7.4	10.8	14.2	17.0	21.0
	Max	4.2	7.8	11.2	14.6	17.5	21.5
Loss Uniformity(dB)	Max	1.0	1.4	1.5	2.0	2.5	2.5
Return Loss (dB) (S/P Grade)	Min	50/55	50/55	50/55	50/55	50/55	50/55
Polarization Dependent Loss(dB)	Max	0.2	0.2	0.4	0.4	0.4	0.5
Directivity (dB)	Min	55	55	55	55	55	55
Wavelength Dependent Loss(dB)	Max	0.8	0.8	0.8	0.8	0.8	1.0
Temperature Stability (-40~85 °C) (dB)	Max	0.5	0.5	0.5	0.8	0.8	1.0
Note: All the data above does not include connectors, Add an additional 0.2dB loss per connector.							

Types Of Splitters



Rack Mount PLC Splitters



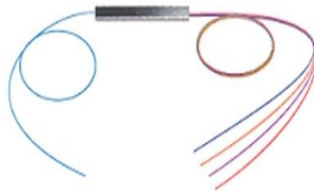
Modular PLC Splitters



LGX Boxed PLC Splitters



Fan Out PLC Splitters



Bare Fiber PLC Splitters



Modular Tray PLC Splitters

Ordering Information

Product Code	Description
LN-LW-SPRM-x-xx-xxx-xxx	Rack Mounted PLC Splitter x:xx ratio, xxx Input Connectors, xxx Output Connectors
LN-LW-SPMD-x-xx-xxx-xxx	Modular PLC Splitter x:xx splitting ratio, xxx Input Connectors, xxx Output Connectors
LN-LW-SPLGX-x-xx-xxx-xxx	LGX PLC Splitter x:xx splitting ratio, xxx Input Connectors, xxx Output Connectors
LN-LW-SPLGX-C-16	LGX Splitter chassis 16 slots 19" 3U
LN-LW-SPFO-x-xx-xxx-xxx	Fan Out PLC Splitter x:xx splitting ratio, xxx Input Connectors, xxx Output Connectors
LN-LW-SPMT-x-xx-xxx-xxx	Modular Tray PLC Splitter x:xx splitting ratio, xxx Input Connector, xxx Output Connector
LN-LW-SPBF-x-xx	Bare Fiber PLC Splitter x:xx splitting ratio

*** Note:**

- x:** For the number of input fiber ports 1 or 2
- xx:** For the number of out fiber ports 1, 2, 4, 8, 16, 32 or 64
- xxx:** For the Input connector types such as "SC, SCA, LC, LCA, FC"
- xxx:** For the Output connector types such as "SC, SCA, LC, LCA, FC"

Notice: The data in this document are only reference and will be changed without any notice. This specification is intended as a guide only.