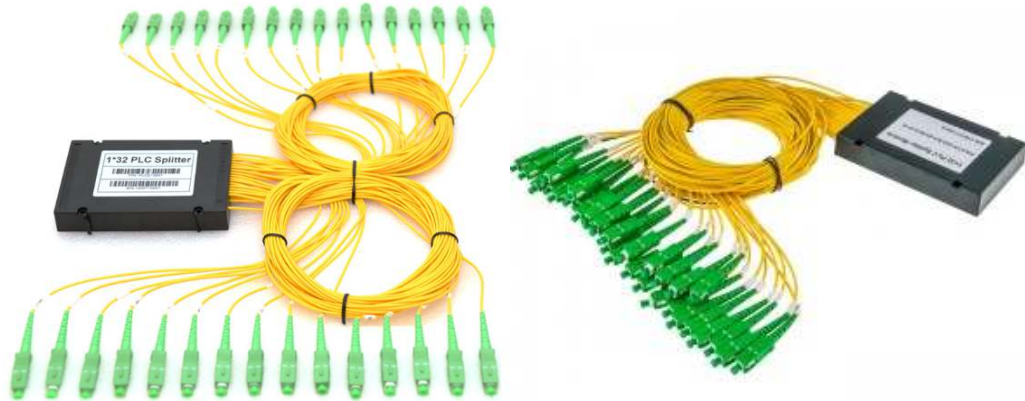


## PLC Splitter 1: N or 2: N ABS Box Type with SC APC Pigtails.

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The PLC Splitters is branching devices that is used to distribute optical signals to multiple locations for processing. In optical networks, it is often necessary to split an optical signal into many identical signals, or to combine many signals into a single signal.

Planar lightwave circuit (PLC) splitter is an optical power distribution device based on the integrated waveguide of quartz plate. With the features of small size, wide range of operating wavelength, stable reliability and good uniformity, It's widely used in PON,ODN,FTTX point to connect between termination device and central office to achieve the signal splitter.

VOYGAR provides ABS Cassette PLC Splitter family has 1x2, 1x4, 1x8, 1x16, 1x32, 1x64, 2x2, 2x4, 2x8, 2x16, 2x32, 2 x 64 PLC splitter, with specifications that are tailored for different applications and markets. Wide bandwidth, compact size. All products meets, ROHS, GR-1209-CORE-2001 and GR-1221-CORE-1999.

### Features

- Low Insertion loss
- Low Polarization Dependent Loss.
- Single Fusion design
- Compact size
- Uniform power splittering
- Good channel-to-channel uniformity
- Wide Operating Wavelength: from 1260nm to 1650nm
- Wide Operating Temperature: from -40°C to 85°C
- High Reliability and Stability
- Excellent Environmental Stability.
- Excellent Mechanical Stability.
- Telcordia GR-1221 and GR-1209.

### Application

- FTTX Systems
- PON Networks
- CATV Links
- Optical Signal Distribution

## Optical Specifications

Splitter Type		ABS Box					
Fiber length		1.5m					
Connector Type		SC APC					
Optical Fiber Type		Corning SMF-28e fiber, G657A1					
Fiber type		G657A1					
Operation Wavelength		1260~1650 nm					
Cable type		900um					
Directivity (dB) Min *		55					
Return Loss (dB) Min *		55 (50)					
Power Handling(mW)		300					
Parameter	Unit	Specification (P Grade)					
<b>Channel Number</b>		<b>1X2</b>	<b>1X4</b>	<b>1X8</b>	<b>1X16</b>	<b>1X32</b>	<b>1X64</b>
Insertion Loss with Connector (Max)	dB	4.1/4.4	7.4/7.9	10.5/11.0	13.8/14.1	17.1/17.4	20.4/21.0
Insertion Loss without Connector (Max)	dB	3.8/4.1	7.1/7.6	10.2/10.7	13.5/13.8	16.8/17.1	20.1/20.7
Uniformity (Max.)	dB	0.6	0.7	0.8	1.0	1.5	2.0
Polarization Dependent Loss	dB	0.2	0.2	0.2	0.3	0.3	0.3
<b>Channel Number</b>		<b>2X2</b>	<b>2X4</b>	<b>2X8</b>	<b>2X16</b>	<b>2X32</b>	<b>2X64</b>
Insertion Loss with Connector (Max)	dB	4.4/4.6	7.7/8.1	10.8/11.3	14.1/14.4	17.4/17.7	20.6/21.3
Insertion Loss without Connector (Max)	dB	4.1/4.3	7.4/7.8	10.5/11	13.8/14.1	17.1/17.4	20.3/21.0
Uniformity (Max.)	dB	0.6	0.7	0.8	1.0	1.5	2.0
Polarization Dependent Loss	dB	0.2	0.2	0.2	0.3	0.3	0.5
Return Loss	dB	≥45 (PC) ; 50 (UPC) ; 60 (APC)					

## Environmental Conditions

Operating Temperature	°C	-40~+85
Storage Temperature	°C	-40~+85
Operating Humidity	%RH	≤93
Storage Humidity	%RH	≤93

### Dimension (mm)

Splitter	1X2	1X4	1X8	1X16	1X32	1X64
Cassette size	100×80×10	100×80×10	100×80×10	120×80×18	120×80×18	140×114×18
Splitter	2X2	2X4	2X8	2X16	2X32	2X64
Cassette size	100×80×10	100×80×10	100×80×10	120×80×18	120×80×18	140×114×18

### Standards

ISO9001  
RoHS, CE

### Ordering information

SPLB8102	PLC Splitter 1: 2 ABS Box Type With1.5m SC APC Pigtails
SPLB8104	PLC Splitter 1: 4 ABS Box Type With1.5m SC APC Pigtails
SPLB8108	PLC Splitter 1: 8 ABS Box Type With1.5m SC APC Pigtails
SPLB8116	PLC Splitter 1: 16 ABS Box Type With1.5m SC APC Pigtails
SPLB8132	PLC Splitter 1: 32 ABS Box Type With1.5m SC APC Pigtails
SPLB8204	PLC Splitter 2: 4 ABS Box Type with1.5m SC APC Pigtails
SPLB8208	PLC Splitter 2: 8 ABS Box Type with1.5m SC APC Pigtails
SPLB8216	PLC Splitter 2: 16 ABS Box Type with1.5m SC APC Pigtails
SPLB8232	PLC Splitter 2: 32 ABS Box Type with1.5m SC APC Pigtails