

# Mini Module PLC Splitter

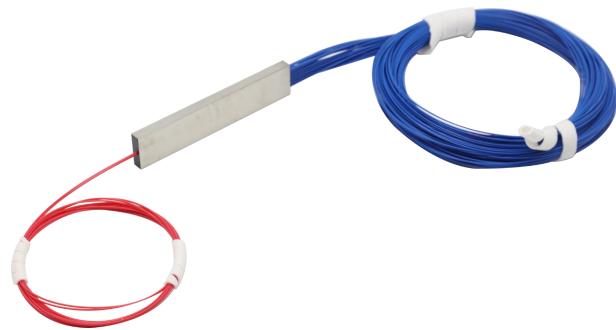
1:2, 1:4, 1:8, 1:16, 1:32, 1:64  
2:2, 2:4, 2:8, 2:16, 2:32

## Description

The GrowsFiber Mini Module PLC Splitter is a type of optical power management device based on silica optical waveguide technology and is widely used in passive optical networks to realize optical signal power splitting with 1:N or 2:N splitting ratio. The Split Ratio (1:2, 1:4, 1:8, 1:16, 1:32, 1:64, 2:2, 2:4, 2:8, 2:16, 2:32), Fiber Type, Fiber Length, and Connector Type can be customized.

## Features

- Low insertion loss
- High isolation
- Low polarization dependent loss
- Compact design
- Wide operating wavelength range
- Good channel-to-channel uniformity
- High reliability and high stability
- Telcordia GR-1209-CORE-2001 compliant
- Telcordia GR-1221-CORE-1999 compliant
- YD/T-1272Q compliant
- Q/CT-2295 compliant
- RoHS compliant



## Applications

- FTTH Networks
- PON System
- CATV Networks

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1:2, 1:4, 1:8, 1:16, 1:32, 1:64  
2:2, 2:4, 2:8, 2:16, 2:32

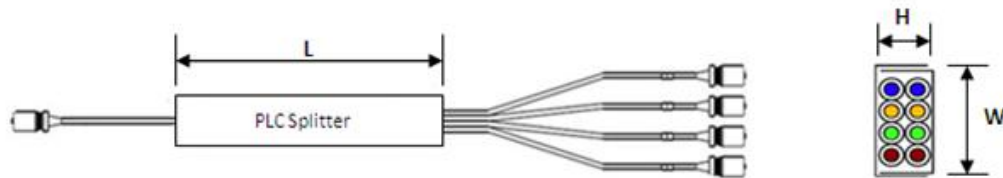
## Specifications (Tested with connectors; G657A1 fiber.)

Parameters	Mini Module PLC Splitter (1:N)					
Operating Wavelength (nm)	1260 to 1650					
Split Ratio	1:2	1:4	1:8	1:16	1:32	1:64
Max Insertion Loss (dB) (P/S Grade)	4.1/4.3	7.4/7.6	10.5/10.8	13.8/14.0	16.8/17.2	20.8/21.3
Max Loss Uniformity (dB)	0.6	0.7	0.8	1.2	1.5	2.0
Max PDL (dB)	0.2		0.25		0.35	
Min Return Loss (dB)	55					
Min Directivity (dB)	55					
Max Wavelength Dependent Loss (dB)	0.5		0.8		1.0	
Max Temperature Stability (dB)	0.5					
Operating Temperature (°C)	-5 to +75					
Storage Temperature (°C)	-40 to +85					
Device Dimension LxWxH (mm)	60x7x4		60x12x4	80x20x6	100x40x6	
Parameters	Mini Module PLC Splitter (2:N)					
Operating Wavelength (nm)	1260 to 1650					
Split Ratio	2:2	2:4	2:8	2:16	2:32	
Max Insertion Loss (dB)	4.5	7.9	11.3	14.7	17.8	
Max Loss Uniformity (dB)	0.9	1.0	1.2	1.5	1.8	
Max PDL (dB)	0.3				0.35	
Min Return Loss (dB)	55					
Min Directivity (dB)	55					
Max Wavelength Dependent Loss (dB)	0.5			0.8		
Max Temperature Stability (dB)	0.5					
Operating Temperature (°C)	-5 to +75					
Storage Temperature (°C)	-40 to +85					
Device Dimension LxWxH (mm)	60x7x4		60x12x4	100x20x6		

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1:2, 1:4, 1:8, 1:16, 1:32, 1:64  
2:2, 2:4, 2:8, 2:16, 2:32

## Mechanical Dimensions



## Ordering Information

Part Number	Description
GFPSM12	Mini Module PLC Splitter, 1:2
GFPSM14	Mini Module PLC Splitter, 1:4
GFPSM18	Mini Module PLC Splitter, 1:8
GFPSM116	Mini Module PLC Splitter, 1:16
GFPSM132	Mini Module PLC Splitter, 1:32
GFPSM164	Mini Module PLC Splitter, 1:64
GFPSM22	Mini Module PLC Splitter, 2:2
GFPSM24	Mini Module PLC Splitter, 2:4
GFPSM28	Mini Module PLC Splitter, 2:8
GFPSM216	Mini Module PLC Splitter, 2:16
GFPSM232	Mini Module PLC Splitter, 2:32

**Note:** If there is a demand for orders that are different from those described above, please contact GrowsFiber. Customized options are shown as following:

Fiber Type	0.9mm loose tube, 2.0mm loose tube, 3.0mm loose tube
Fiber Length	1.0m, 1.5m, 2.0m, 2.5m, ...
Connector Type	None, LC/UPC, LC/APC, SC/UPC, SC/APC, FC/UPC, FC/APC