

Bare Fiber 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 Bare Fiber 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), Input Fiber Type, Output 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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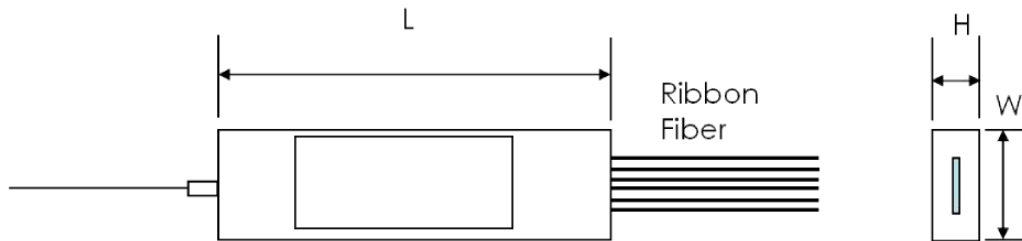
Specifications (Tested without connectors; G657A1 fiber.)

Parameters	Bare Fiber 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)	3.8/4.0	7.1/7.3	10.2/10.5	13.5/14.7	16.5/16.9	20.5/21.0
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)	40x4x4		50x4x4	50x7x4	60x12x4	
Parameters	Bare Fiber 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)	4.2	7.6	11.0	14.4	17.5	
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)	40x4x4	50x4x4	50x7x4	60x7x4		

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2:2, 2:4, 2:8, 2:16, 2:32

Mechanical Dimensions



Ordering Information

Part Number	Description
GFPSB12	Bare Fiber PLC Splitter, 1:2
GFPSB14	Bare Fiber PLC Splitter, 1:4
GFPSB18	Bare Fiber PLC Splitter, 1:8
GFPSB116	Bare Fiber PLC Splitter, 1:16
GFPSB132	Bare Fiber PLC Splitter, 1:32
GFPSB164	Bare Fiber PLC Splitter, 1:64
GFPSB22	Bare Fiber PLC Splitter, 2:2
GFPSB24	Bare Fiber PLC Splitter, 2:4
GFPSB28	Bare Fiber PLC Splitter, 2:8
GFPSB216	Bare Fiber PLC Splitter, 2:16
GFPSB232	Bare Fiber 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:

Input Fiber Type	250um bare fiber, 0.9mm loose tube, 0.9mm tight buffer
Output Fiber Type	ribbon fiber, 250um bare fiber, 0.9mm 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