

## Bare Fiber PLC Splitter

### Description

The Gigalight bare fiber PLC (Planar Lightwave Circuit) splitter is a type of optical power management device with bare fiber package fabricated using silica optical waveguide technology. It is widely used in PON/ODN networks to realize optical signal power splitting with 1xN or 2xN splitting ratio. Gigalight provides a series of customized bare fiber PLC splitters to meet different requirements on port configuration, input fiber type, input fiber length, output fiber type, output fiber length, input connector, and output connector.

### Features

- ✓ Low Insertion Loss (IL)
- ✓ High isolation
- ✓ Low Polarization Dependent Loss (PDL)
- ✓ 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-6 compliant (lead free)



### Applications

- ✓ FTTH systems
- ✓ PON networks
- ✓ CATV links
- ✓ Communication Equipment

### Specifications

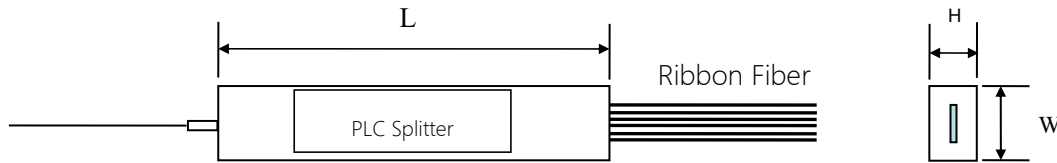
Parameters	1×N Bare Fiber PLC Splitters					
Operating Wavelength (nm)	1260 ~ 1650					
Port Configuration	1×2	1×4	1×8	1×16	1×32	1×64
Max Insertion Loss (dB) (P/S Grade)	3.8/4.0	7.1/7.3	10.2/10.5	13.5/14.7	16.5/16.9	20.5/21.0
Max Loss Uniformity (dB)	0.6	0.7	0.8	1.2	1.5	2.0
Max PDL (dB)	0.2			0.25		0.35
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 ~ 75					
Storage Temperature (°C)	-40 ~ 85					
Device Dimension L×W×H (mm)	40×4×4			50×4×4	50×7×4	60×12×4

Parameters	2×N Bare Fiber PLC Splitters					
Operating Wavelength (nm)	1260 ~ 1650					
Port Configuration	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 ~ 75					
Storage Temperature (°C)	-40 ~ 85					
Device Dimension L×W×H (mm)	40×4×4			50×4×4	50×7×4	60×7×4

#### Note:

- 1) All specifications are based on the devices without connectors.
- 2) Fiber type is G657A1.

### Mechanical Dimensions



### Ordering Information

GPS-	xxx-	x	xx-	x	xx-	x	x
	Port Configuration	Input Fiber Type	Input Fiber Length	Output Fiber Type	Output Fiber Length	Input Connector	Output Connector
Bare Fiber PLC Splitter	102=1×2	B=250um bare fiber	10=1.0m	B=250um bare fiber	10=1.0m	0=None	0=None
	104=1×4	L=0.9mm loose tube	15=1.5m	R=ribbon fiber	15=1.5m	1=FC/UPC	1=FC/UPC
	...	T=0.9mm tight buffer	20=2.0m	F=Fanout box with 900um loose tube	20=2.0m	2=FC/APC	2=FC/APC
	164=1×64		25=2.5m		25=2.5m	3=SC/UPC	3=SC/UPC
	202=2×2		...		...	4=SC/APC	4=SC/APC
	...					5=LC/UPC	5=LC/UPC
	232=2×32					6=LC/APC	6=LC/APC

#### Note :

If you need any other special requirement, please contact our sales.

E-mail: [sales@gigalight.com](mailto:sales@gigalight.com)

Official Site: [www.gigalight.com](http://www.gigalight.com)