

# PLC Optial Fiber Splitter with LGX Cassette

## 1、 Cable Drawing



## 2、 Description

(PLC splitter) Planar lightwave circuit splitter, a type of optical power management device that is fabricated using silica optical waveguide technology. LGX cassette splitter has a strong metal box to house the PLC splitters. It can be used alone or be easily installed in standard fiber patch panel or fiber enclosure. The standard LGX metal box housing provides a plug-and-play method for integration in the network, which eliminates any risk during installation. No field splicing or skilled personnel is required during deployment.

## 3、 Features

- Low insertion loss and low PDL
- Exceptional reliability and stability
- Standard LGX cassette design to be fit in 1RU and 4RU rack mount chassis
- Modular structure, easy for operation, construction and maintenance
- Convenient to carry out splitting on modules by existing cabling system and
- Reduce network construction costs.
- Factory pre-terminated, stable performance
- Secure protective device for radius curvature of fibers

## 4、 Application

- CATV, LAN, WAN network

- FTTX Systems
- Telecommunication network
- EPON/GPON
- DWDM and CWDM Systems

## 5. Specification

### Fiber Parameters

1×N PLC Splitter				
Parameters	1×2	1×4	1×8	1×16
Operating Wavelength (nm)	1260~1650			
Fiber Type	G657A1 or customer specified			
Insertion Loss (dB) (P/S Grade)	≤3.8/4.0	≤7.1/7.3	≤10.2/10.5	≤13.5/13.7
Loss Uniformity (dB)	≤0.4	≤0.6	≤0.8	≤1.2
Polarization Dependent Loss (dB)	≤0.2	≤0.2	≤0.2	≤0.25
Return Loss(dB) (P/S Grade)	≥55/50	≥55/50	≥55/50	≥55/50
Directivity (dB)	≥55	≥55	≥55	≥55
Wavelength Dependent Loss (dB)	≤0.3	≤0.3	≤0.3	≤0.5
Temperature Stability (-40~85°C) (dB)	≤0.4	≤0.4	≤0.4	≤0.5
Operating Temperature(°C)	-40~+85			
Storage Temperature(°C)	-40~+85			

2×N PLC Splitter				
Parameters	2×2	2×4	2×8	2×16
Operating Wavelength (nm)	1260~1650			
Fiber Type	G657A1 or Customer specified			
Insertion Loss (dB) P/S Grade)	≤3.9/4/2	≤7.3/7.6	≤10.5/11	≤14.4/14.6
Loss Uniformity (dB)	≤0.6	≤1.0	≤1.2	≤1.5
Polarization Dependent Loss (dB)	≤0.2	≤0.2	≤0.2	≤0.3

Return Loss(dB)(P/S Grade)	≥55/50	≥55/50	≥55/50	≥55/50
Directivity (dB)	≥55	≥55	≥55	≥55
Wavelength Dependent Loss (dB)	≤0.3	≤0.4	≤0.5	≤0.5
Temperature Stability	≤0.5			
(-40 ~ 85 °C)(dB)				
Operating Temperature (°C)	-40 ~ 85			
Storage Temperature (°C)	-40 ~ 85			
Max. Power(mW)	500			

**Notes:**

1. All values specified are without connectors.
2. IL will increase 0.2dB when add one connector,Return Loss≥55dB(APC), ≥50dB(UPC)
3. Customized service is available.
4. Connector and Adaptors : SC, LC or Other

**Cassette Parameters**

Item	Unit	Parameters
Dimension (L*W*D)	mm	L129 * W29 * D157
Material	/	Aluminum or Steel
Adaptor Type	/	SC LC FC or Customer specified
Colour	/	Black or White
Fiber Diameter	mm	0.9

