

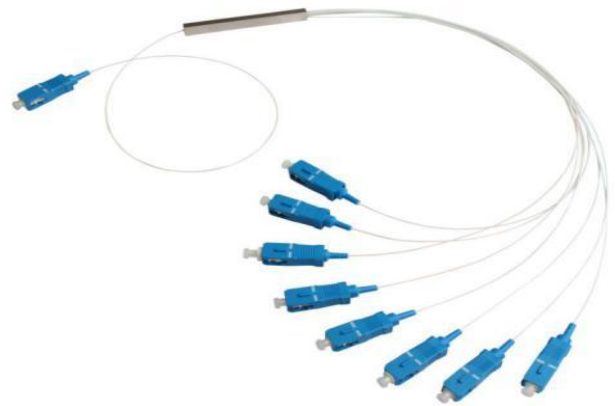
LGX Module Specification of PLC Splitter

PLC Splitters

PLC Splitter is a type of optical power management device that is fabricated using silica waveguide technology. We provides whole series of 1xN and 2xN splitter products that are tailored for specific applications.

Features

- ◆ Low Insertion loss
- ◆ Low PDL
- ◆ Compact Design
- ◆ Good channel-to-channel uniformity
- ◆ Wide Operating Wavelength: From 1260nm to 1650nm
- ◆ Wide Operating Temperature: From -40oC to 85oC High Reliability and Stability



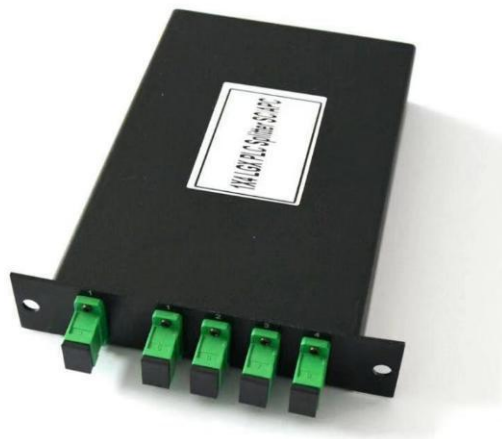
PLC Splitter Type

1. Classification by shape

- ◆ Mini PLC Splitter
- ◆ ABS Box PLC Splitter

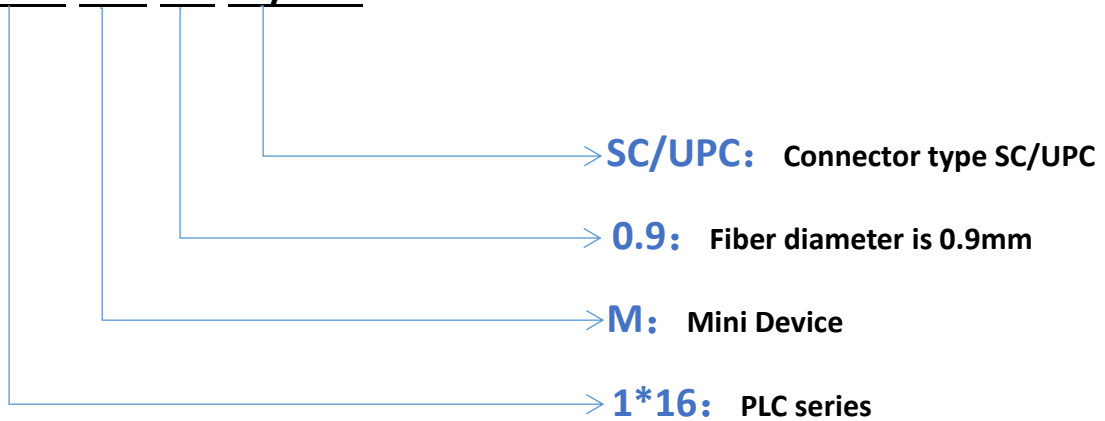
2. Classification by series

1/2*2、1/2*4、1/2*8、1/2*16



Product Number

PLC-1*16-LGX-0.9-SC/UPC



The length of optical fiber can be customized according to the actual requirement.

Connector type: SC/UPC、SC/APC、LC/APC、LC/UPC

Fiber diameter: 0.9mm

PLC Device: LGX Module

PLC series: 1/2*2/4/8/16/32

I . Mechanical Specification:

1*N Splitters:

Parameter		Unit	Value									
Product Type			1x2	1x3	1x4	1x6	1x8	1x12	1x16	1x32	1x64	1x128
Operating Wavelength		nm	1260~1650									
Insertion Loss	Typ.	dB	3.6	6.3	7.0	9.4	10.2	12.4	13.5	16.6	20.1	24.5
	Max.	dB	4.1	6.8	7.5	10.0	10.5	13	13.8	17.1	20.8	25.3
Uniformity (Max.)		dB	0.5	0.8	0.8	0.8	0.8	1.2	1.4	1.5	2.0	2.6
PDL(Max.)		dB	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.8
Return Loss		dB	≥55(APC type connectors) / 50(UPC type connectors)									
Directivity		dB	≥55									
Operating & Storage Temperature		℃	-40~+85									

2*N Splitters:

Parameter		Unit	Value									
Product Type			2x2	2x3	2x4	2x6	2x8	2x12	2x16	2x32	2x64	2x128
Operating Wavelength		nm	1260~1650									
Insertion Loss	Typ.	dB	4.1	6.6	7.2	9.7	10.5	12.6	13.8	17	20.5	24.8
	Max.	dB	4.5	7.0	7.6	10.2	11	13.2	14.5	17.8	21.5	25.8
Uniformity (Max.)		dB	0.8	0.8	0.8	1.0	1.0	1.5	1.5	1.8	2.5	3.0
PDL(Max.)		dB	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.6	1.0
Return Loss		dB	≥ 55 (APC type connectors) / 50(UPC type connectors)									
Directivity		dB	≥ 55									
Operating & Storage Temperature		°C	-40~+85									

II . PLC Splitters Material Requirements

1. Optical Fiber

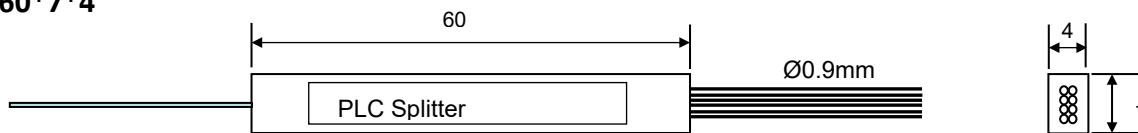
Project	Specifications
Optical Fiber	G657A
Φ (mm)	0.9
Optical Cable	White/Hytrel

2. Mini Device component packing dimension: (unit: mm)

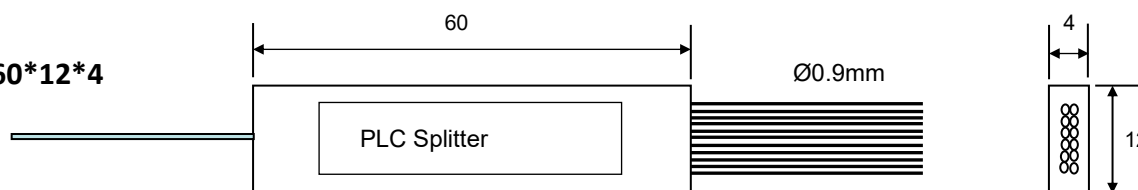
Product Type	Unit	Length	Width	Height
1x2	mm	50	7	4
1x4	mm	50	7	4
1x8	mm	60	7	4
1x16	mm	60	12	4
1x32	mm	80	20	6

2x2	mm	60	7	4
2x4	mm	60	7	4
2x8	mm	60	7	4
2x16	mm	60	12	4
2x32	mm	80	20	6

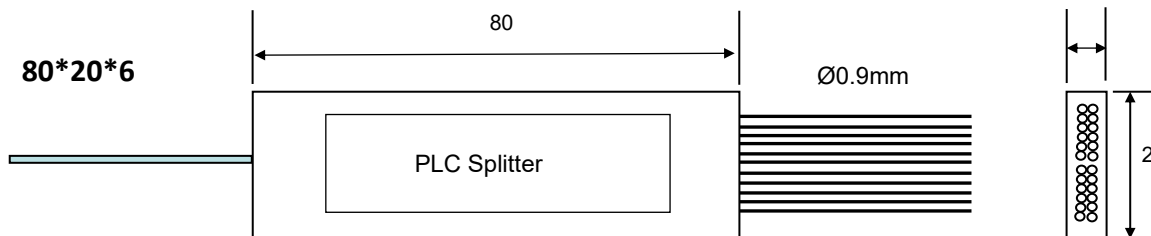
60*7*4



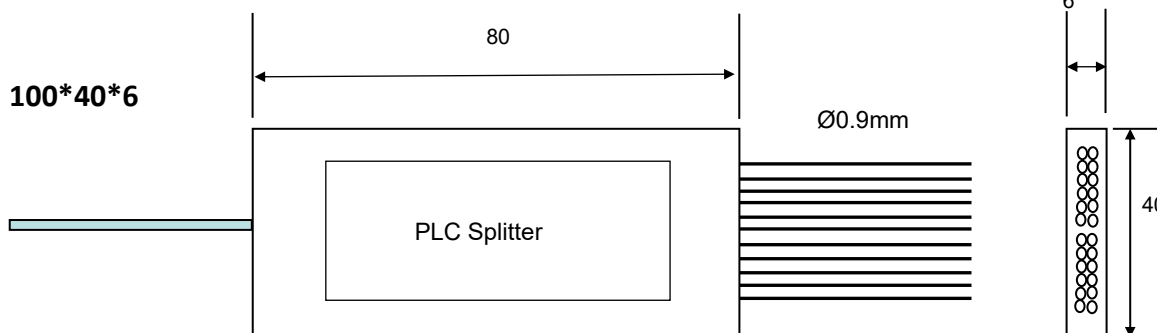
60*12*4



80*20*6

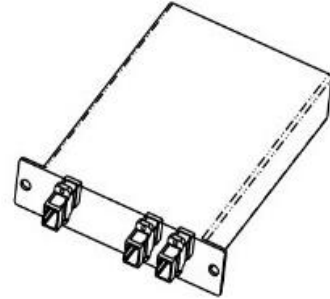
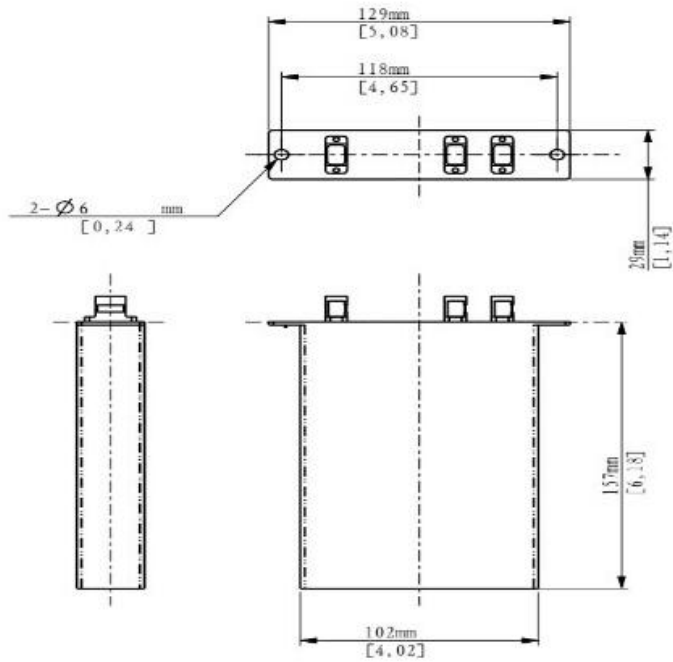


100*40*6



3. Mini Device component packing dimension: (unit: mm)

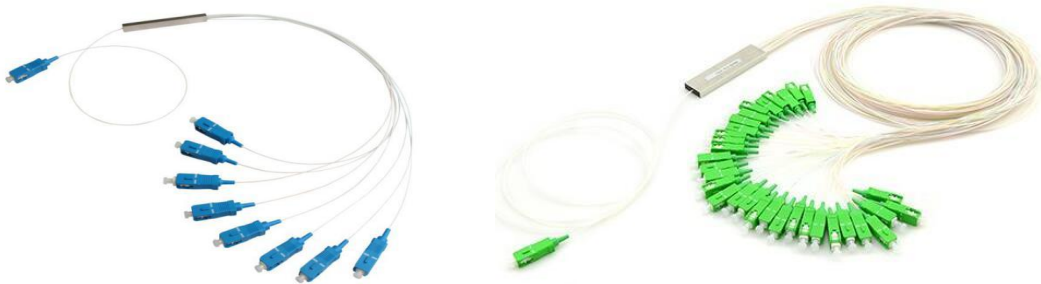
Product Type	Unit	Length	Width	Height
1/2x2 SC LC	mm	157	129	29
1/2x4 SC LC	mm	157	129	29
1/2x8 SC LC	mm	157	129	29
1/2x16 SC	mm	157	129	52
1/2x16 LC	mm	157	129	29
1/2x32 LC	mm	157	129	52



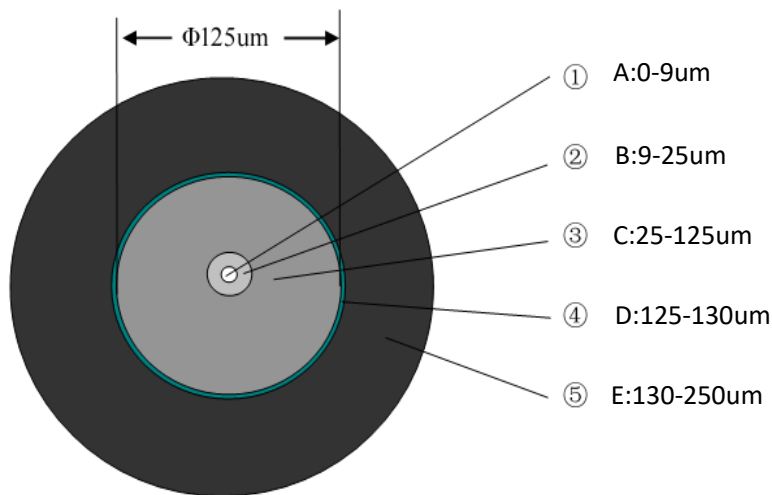
1*2 SC PLC

III. Connector Specifications

1.MIN

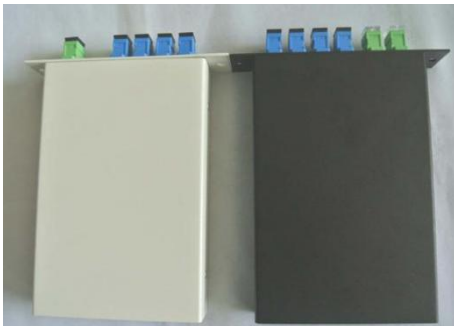


Face Specification



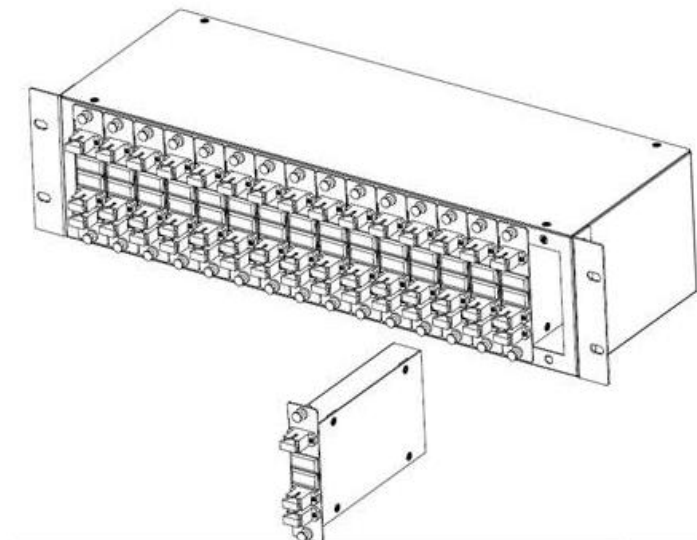
Scope	Defect description	Standard
①A:	Scratches And Nicks	No
	Bubbles And Spots	No
	Foreign Body	No
②B:	Scratches And Nicks	No
	Bubbles And Spots	No
	Foreign Body	No
③C:	Scratches And Nicks	$\leq 2\mu\text{m}$ and $\leq 1\text{pcs}$
	Bubbles And Spots	$\leq 2\mu\text{m}$ and $\leq 3\text{pcs}$
	Foreign Body	No
④D:	Scratches And Nicks	$\leq 5\mu\text{m}$ and $\leq 1\text{pcs}$
	Bubbles And Spots	$\leq 5\mu\text{m}$ and $\leq 2\text{pcs}$
	Foreign Body	No
⑤E:	Scratches And Nicks	$\leq 5\mu\text{m}$ and $\leq 3\text{pcs}$
	Bubbles And Spots	$\leq 5\mu\text{m}$ and $\leq 3\text{pcs}$
	Foreign Body	Allow slightly non removable

2.LGX Module

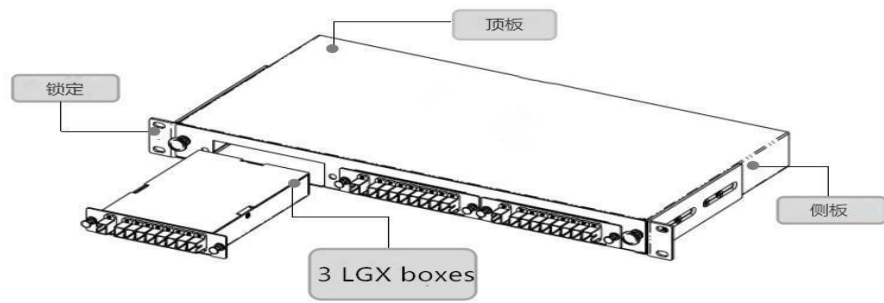


3.APPLICATION

- 1) LGX 1×2/1×4/1×8 16 boxes
- 2) LGX 1×16 8 boxes



3) LGX 1×2/1×4/1×8 3 boxes



IV. Packing

1. No Connector

LGX PLC Splitter: 1 PCS in the box



1×2/1×4/1×8: 165×135×35mm

1×16: 165×135×55mm

