

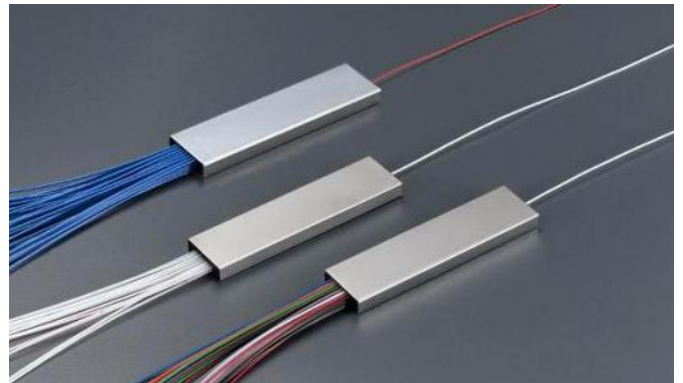
Specification of PLC Splitter

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



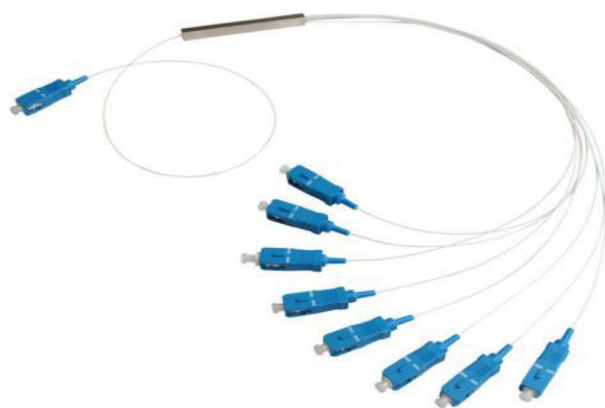
PLC Splitter Type

1. Classification by shape

- ◆ Mini PLC Splitter
- ◆ ABS Box PLC Splitter

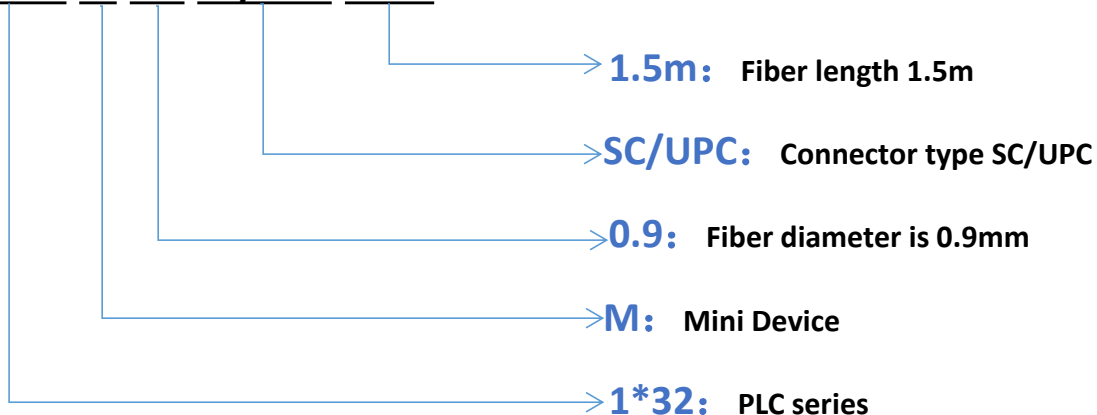
2. Classification by series

1/2*2、1/2*4、1/2*8、1/2*16、1/2*32、1/2*64、1/2*126



Product Number

PLC-1*32-M-0.9-SC/UPC-1.5m



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

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

Fiber diameter: 0.9mm/2.0mm/3.0mm

PLC Device: Mini/ABS Box

PLC series: 1/2*2/4/8/16/32/64/128

I . Mechanical Specification:

1*N Splitters:

Parameter		Unit	Value						
Product Type			1x2	1x4	1x8	1x16	1x32	1x64	1x128
Operating Wavelength		nm	1260~1650						
Insertion Loss	Typ.	dB	3.6	7.0	10.2	13.5	16.6	20.1	24.5
	Max.	dB	4.1	7.5	10.5	13.8	17.1	20.8	25.5
Uniformity (Max.)		dB	0.5	0.8	0.8	1.4	1.5	2.0	2.6
PDL(Max.)		dB	0.2	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 & StorageTemperature		℃	-40~+85						

2*N Splitters:

Parameter		Unit	Value						
Product Type			2x2	2x4	2x8	2x16	2x32	2x64	2x128
Operating Wavelength		nm	1260~1650						
Insertion Loss	Typ.	dB	4.1	7.2	10.5	13.8	17.0	20.5	24.8
	Max.	dB	4.5	7.6	11.0	14.8	17.9	21.5	25.8
Uniformity (Max.)		dB	0.8	1.0	1.2	1.5	1.8	2.5	3.0
PDL(Max.)		dB	0.2	0.3	0.3	0.3	0.3	0.5	1.0
Return Loss		dB	≥55(APC type connectors) / 50(UPC type connectors)						
Directivity		dB	≥55						
Operating & Storage Temperature		℃	-40~+85						

II . PLC Splitters Material Requirements

1. Optical Fiber

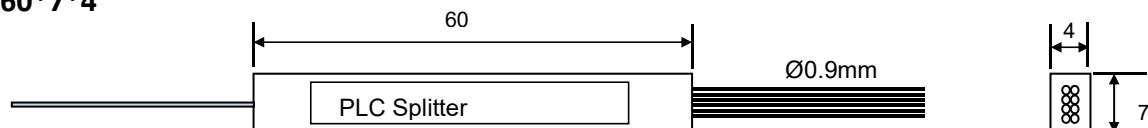
Project	Specifications
Optical Fiber	G657A
Φ (mm)	0.9/2.0/3.0
Optical Cable	White/Hytrel Yellow/PVC/Aramid fiber

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

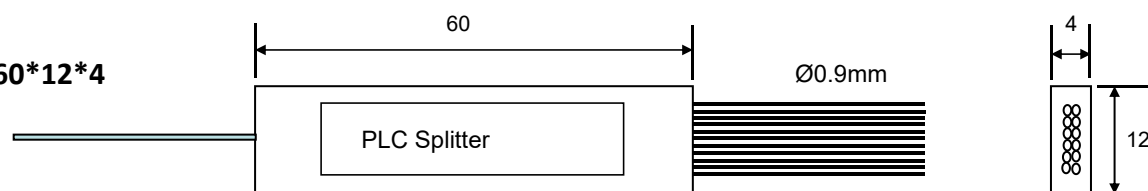
Product Type	Unit	Length	Width	Height
1x2	mm	50	7	4
1x4	mm	50	7	4
1x8	mm	60	7	4
1x16	mm	60	12	4
1x32	mm	80	20	6

1x64	mm	100	40	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
2x64	mm	100	40	6

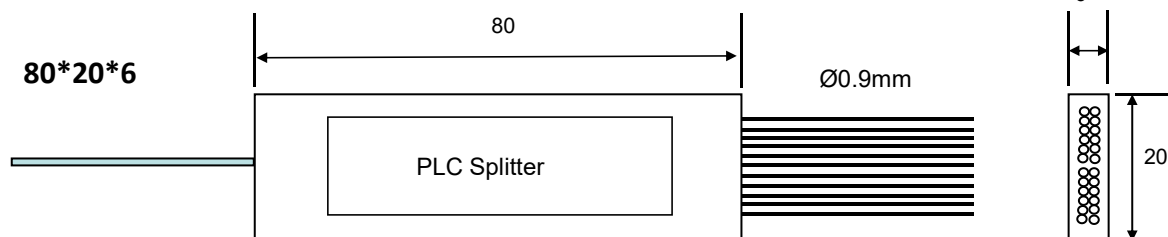
60*7*4



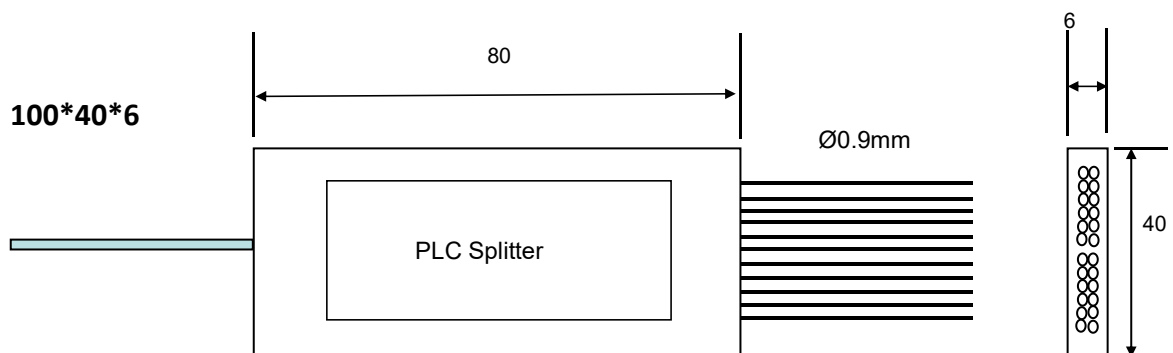
60*12*4



80*20*6

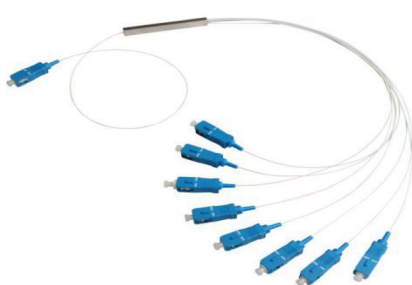


100*40*6

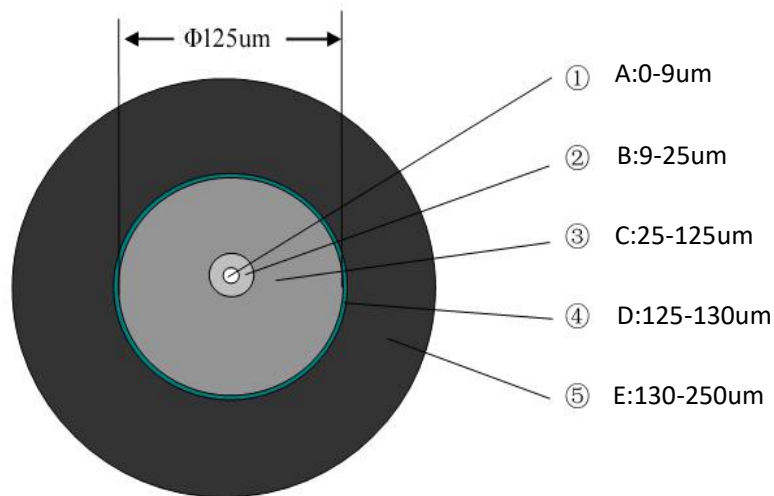


III. Connector Specifications

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	$\leq 2\text{um}$ and $\leq 1\text{pcs}$
	Bubbles And Spots	$\leq 2\text{um}$ and $\leq 3\text{pcs}$
	Foreign Body	No
④D:	Scratches And Nicks	$\leq 5\text{um}$ and $\leq 1\text{pcs}$
	Bubbles And Spots	$\leq 5\text{um}$ and $\leq 2\text{pcs}$
	Foreign Body	No
⑤E:	Scratches And Nicks	$\leq 5\text{um}$ and $\leq 3\text{pcs}$
	Bubbles And Spots	$\leq 5\text{um}$ and $\leq 3\text{pcs}$
	Foreign Body	Allow slightly non removable

IV. Packing

1. No Connector

Miniature PLC Splitter:

1*2/1*4/1*8/2*2/2*4/2*8: Fiber length $\leq 1\text{m}$



1*2/1*4/1*8/2*2/2*4/2*8: Fiber length >1m



1*16/2*16:



1*32/2*32:

