

PRODUCT SPECIFICATION

Product Name : 1x5 & 1x9 PLC Splitters

Product Code :

File No. :

Approval List

Title	Signature	Date
Drafter		
Reviewer		
Approver		

PLC Splitters

SHIJIA's full line of PLC Splitters is ideal for inside/outside plant installations providing superior optical performance and field-proven environmental reliability for FTTX PON applications. PLC splitters are available in a variety of packaging options and can be offered according to customers' design and requirements.

1 Features

Low Insertion Loss and PDL Excellent IL Uniformity

Wide Operating Length Wide Operating Temperature High Reliability

Telcordia GR-1209 &GR-1221 Compliance

2 Applications

FTTX Deployments

PON Networks CATV Networks

Other applications in fiber-optic systems

3 Optical Specifications

PLC Splitter Specifications

Parameter	Splitting Ratio (CH1)	IL (dB) (CH1)	IL (dB) (CH2~5)	Uniformity (dB) (CH2~5)	PDL (dB)
1x5	20/80	8.6	8.6	0.8	0.4
	50/50	4.3	10.9	0.8	0.4
	75/25	2.5	15.2	0.8	0.4
	85/15	1.8	15.7	0.8	0.4
Parameter	Splitting Ratio (CH1)	IL (dB) (CH1)	IL (dB) (CH2~9)	Uniformity (dB) (CH2~9)	PDL (dB)
1x9	70/30	2.2	16.3	0.8	0.3
	50/50	3.9	14.4	0.8	0.3
Operating Wavelength (nm)		1260~1650			
Test Wavelength (nm)		1310/1550			
Return Loss (dB)		≥55 (APC or NC) ≥50 (UPC)			
Directivity (dB)		≥55			
Fiber Type		G657A1(Default)			
Fiber Length (cm)		According to customer requirements			
Operating Temperature (°C)		-40~85			
Storage Temperature (°C)		-40~85			

Notes:

1. All parameters are tested at 1310nm & 1550nm and room temperature;
2. The Insertion loss are tested without connector loss ; Insertion loss increases 0.2dB if connectors are added;

4 Package size

4.1 Built-in device:



Steel Tube dimensions:

Parameter	Length (mm)	Width (mm)	Height (mm)
1X5	60	7	4
1X9	60	12	4

1x5:

Pigtail for Input fiber: 0.9mm white tube;

Pigtail for Output fiber: The individual spectral ratio is Blue Tube and others are white tube , such as 85/15 then (CR85%)0.9mm Blue tube, (CR15%) 0.9mm white tube

1X9:

Pigtail for Input fiber: 0.9mm white tube;

Pigtail for Output fiber: (CR70%)0.9mm Blue tube, (CR30%) 0.9mm white tube

5 Shipment Packaging

5.1 Product Label

According to customer requirements

5.2 Template of Test List

The neutral data report format is used in the test report, take 1X5 as an example, the format as following Table:

1x5 PLC Splitter Test Sheet						
Wavelength	1260-1650nm		Inspected Date	YYYY/MM/DD		
Product Type	PLC Splitter		Serial No.			
Fiber Type			Fiber Length(m)			
Connector Type			Size(mm)	60x7x4		
Item.	IL(dB)		PDL(dB)		RL(dB)	
Wavelength(nm)	1310	1550	1310	1550	1310	1550
Port 01					PASS	PASS
Port 02					PASS	PASS
Port 03					PASS	PASS
Port 04					PASS	PASS
Port 05					PASS	PASS
Input	N/A				PASS	PASS
Uniformity@port01~port04			Directivity(dB)		≥55	

5.3 Product Packaging

According to customer requirements

5.4 Packing Outer Cartons

According to customer requirements

6 Transportation

The product packaging should be suitable for any means of transportation, collision, drop, rain and snow direct and sun exposure should be avoided in transportation.

7 Storage

Products should be stored in a well-ventilated, dry warehouse without corrosive gas. Storage temperature: $-40\text{ }^{\circ}\text{C}$ ~ $+85\text{ }^{\circ}\text{C}$.