

Product Specification

PLC Splitter Blade Type, 1*N Series.

Product Feature:

- Low insertion loss
- High return loss
- Telcordia GR-1209 and GR-1221 compliance
- YD/T2000.1-2014 compliance

Application:

- FTTx
- PON networks
- CATV
- Data communication



Product Selection

Splitter Type-Input-Output-Tube Dia. -Fiber Type-Color

Splitter Type	Input	Output	Tube Dia.(mm)	Fiber Type	Color
1*2	SC/PC	SC/PC	0.9	G657A1	White
1*4	SC/APC	SC/APC		G657A2	
1*8	FC/PC	FC/PC			
1*16	FC/APC	FC/APC			
1*32	LC/PC	LC/PC			
1*64	LC/APC	LC/APC			

1.0 PLC Splitter Blade Type Specifications

1.1 Blade Type structure chart

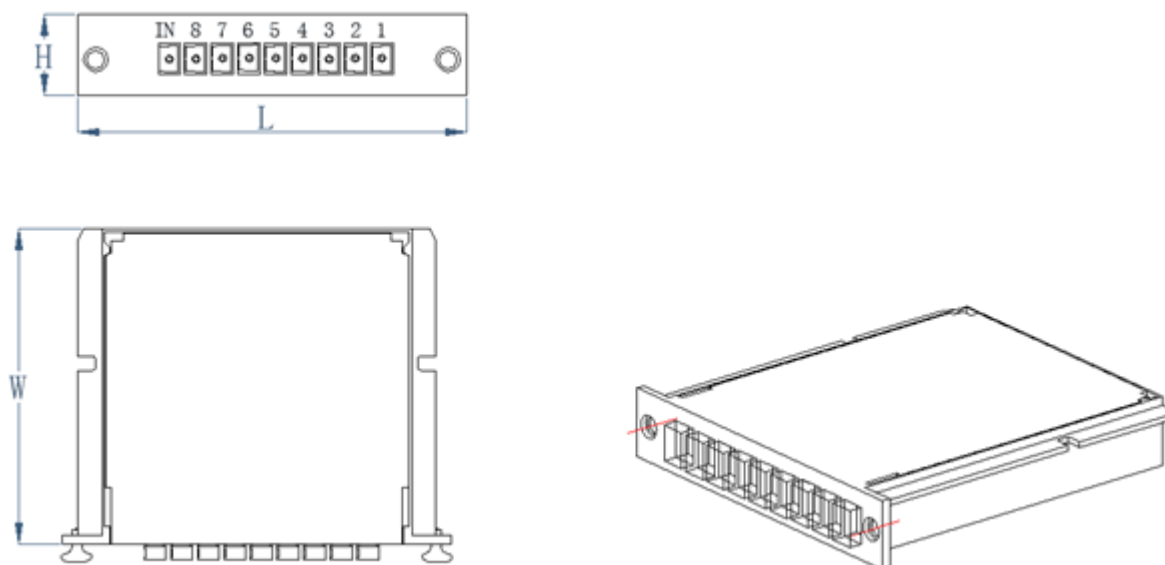


Figure 1

1.2 Blade Type Box Size

Product Type	Diameter (mm)	Box Size (Lx Wx H) mm
1x4 (SC Type)	0.9mm	130x100x25
1x8 (SC/LC Type)	0.9mm	130x100x25
1x16 (SC/LC Type)	0.9mm	130x100x50
1x32 (SC/LC Type, Horizontal)	0.9mm	130x100x102
1x64 (SC/LC Type, Horizontal)	0.9mm	130x100x206

Figure 2

1.3 Typical PLC Splitter Blade Type Optical Parameters

Product Type	1x2	1x4	1x8	1x16	1x32	1x64
Fiber Type	G.657A					
Working Wave Length (nm)	1260nm~1650nm					
IL(dB)	≤3.9	≤7.2	≤10.3	≤13.6	≤16.9	≤20.2
Uni (dB)	≤0.8	≤0.8	≤0.8	≤1.0	≤1.5	≤2.0
PDL(dB)	≤0.2	≤0.3	≤0.3	≤0.3	≤0.3	≤0.5
WDL(dB)	≤0.8	≤0.8	≤0.8	≤1.0	≤1.0	≤1.0
RL(dB)	≥50 (UPC), ≥55 (APC)					
Directivity (dB)	≥55	≥55	≥55	≥55	≥55	≥55

Note: 1, The above parameters are for PLC splitter without connectors, 0.2dB insertion loss will be added with connectors. Additional insertion loss will be added with adaptors.

2, Return loss ≥55dB(UPC), ≥60dB(APC) is available.

Figure 3

1.4 Mechanical Test

No.	Test	Performance	Results
1	Drop Test	0.5m, 3 directions, 8 times/direction, 5 cycle times	1. IL variation ≤0.5dB 2. Appearance checking
2	Vibration Test	Frequency: 10~55HZ	
		Scan: 45 times/min	
		Amplitude: 0.75mm	
		Time: X, Y, Z direction/30 min	
3	Cable Torsion	Load: Ø2.0mm Cable, 15N;	
	Test	Method: 22~28cm, ±180°, 10 times/Min, 25 times	
4	Cable Tension	Load: Ø2.0mm Cable, 50N;	
	Test	Method: 22~28cm.	

Figure 4

1.5 Reliability Test

No.	Test	Performance	Results
1	High temperature storage(dry)	85°C(±2°C), 96h	1. IL variation≤0.5dB; 2. Appearance checking
2	Low temperature storage	-40°C (±2°C), 96h	
3	High temperature storage(humid-heat)	75°C (±2°C), 90% (±5%) RH, 96h	
4	Temperature Cycle	-40°C~+85°C, 8h/Cycle, 21 cycles.	

Figure 5

1.6 Product and packing label

1X8 PLC Splitter Blade
P/N: A 0 3 - 2 1 0 8 2 7
S/N: 1 7 0 5 1 2 0 0 0 6 1
Date: 2017-05-12

Product	1X8 PLC Splitter Blade Type
Spec.	SC/APC, 0.9mm, G657A1
Value	IL ≤ 10.5dB, RL ≥ 55dB
Qty.	1Pcs

Figure 6

1.7 Packing detail

Product Type	Type	1X2	1X4	1X8	1X16	1X32
0.9mm	Valve bag size (cm)	18*18 (1 pcs)	18*18 (1pcs)	18*18 (1 pcs)	20*20 (1 pcs)	45*35 (1 pcs)
	Outer box size (cm)	57.5*47*25.5 (100 pcs)	57.5*47*25.5 (100 pcs)	57.5*47*25.5 (100 pcs)	57.5*47*25.5 (50 pcs)	57.5*47*25.5 (24 pcs)

Figure 7

1.7-1 Product Packing: inner box carton



Figure 8