

Product Specification

PLC Splitter Bare Type, 1*N Series.

Product Feature:

- Low insertion loss
- High return loss
- Telcordia GR-1209-CORE 2010 compliance
- Telcordia GR-1221-CORE 2010 compliance
- YD/T2000.1-2014 compliance

Application:

- FTTx
- PON networks
- CATV
- Data communication



Product Selection

Splitter Type - Dia.-Length-Fiber Type-Color

Splitter Type	Dia.(um)	Length(m)	Fiber Type	Color
1*2	250	1.0	G657A1	ISO
1*4		1.2	G657A2	
1*8		1.5		
1*16		2.0		
1*32		customerized		
1*64				

1.0 PLC Splitter Bare Type Specifications

1.1 Bare Type structure chart

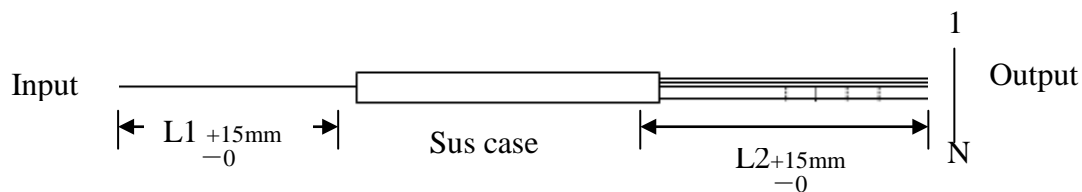


Figure 1

1.2 Bare Type Sus Case Size

Product Type	Diameter (um)	Sus Case Size (Lx Wx H) mm
1x2	250	40x4x4
1x4	250	40x4x4
1x8	250	40x4x4
1x16	250	50x4x4
1x32	250	50x7x4
1x64	250	60x12x4

Figure 2

1.3 Typical PLC Splitter Bare 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: Return loss ≥55dB(UPC), ≥60dB(APC) is available.

Figure 3

1.4 Mechanical Test

No.	Test	Performance	Results
1	Drop Test	1.8m, 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	Fiber Torsion	Load: Ø0.25mm, 2N;	
	Test	Method: 22~28cm, ±180°, 10 times/Min, 25 times	
4	Fiber Tension	Load: Ø0.25mm, 2N;	
	Test	Method: 22~28cm.	

Figure 4

1.5 Reliability Test

No.	Test	Performance	Results
1	High temperature storage (dry)	85°C(±2°C), 2000h	1. IL variation≤0.5dB; 2. Appearance checking
2	Low temperature storage	-40°C(±5°C), 2000h	
3	High temperature storage(humid-heat)	75°C(±2°C), 90%(±5%) RH, 500h(COa), 2000h(UNCb)	
4	Temperature Cycle	-40°C~+85°C, 8h/Cycle, 500 cycles.	

Figure 5

1.6 Product and packing label

1 7 0 3 0 9 0 0 0 0 6

Product	1X8 PLC Splitter Bare Type
Spec.	250um, 1.2m, G657A1
Value	1L ≤ 10.3dB, RL ≥ 55dB
Qty.	1Pcs

Figure 6

Figure 7, Size: 50x20mm

1.7 Packing detail

Product Type	Type	1X2	1X4	1X8	1X16	1X32
250um	Plastic box size (cm)	18*9*2 (1 pcs)	18*9*2 (1pcs)	18*9*2 (1 pcs)	18*9*2 (1 pcs)	18*9*2 (1 pcs)
	Outer box size (cm)	40*32*44 (180 pcs)	40*32*44 (180 pcs)	40*32*44 (180 pcs)	40*32*44 (180 pcs)	40*32*44 (180 pcs)

Figure 8

1.7-1 Product Packing



Figure 9