

PLC Splitter Spec



Plane wave-conductive optical splitter (PLC Splitter) is a quartz substrate-based integrated wave guide optical power distribution device, with small size, wide operating wavelength range, high reliability, good optical uniformity and so on, especially suitable for passive optical network (EPON, GPON, etc.) in the connection of the bureau end and terminal equipment and the realization of optical signal separation, providing 1xN and 2xN full series of products, and for customers to order a variety of occasions.

Features

- Low Insertion Loss
- Polarization is insensitive
- Compact
- Good Uniformity
- High stability and reliability

Application

- FTTH
- The field of optical communication
- CATV system

Performance Specifications

1×N PLC Splitter Table1

Parameters	Unit	Specifications						
		1×2	1×4	1×8	1×16	1×32	1×64	1×128
Operating Wavelength	nm	1260~1650						
Fiber Type		G657A1 or Customize						
Insertion Loss	dB	3.8/4.0	7.2/7.4	10.3/10.7	13.5/13.7	16.5/16.9	20.5/21	23.8/24.2
Uniformity	dB	≤0.4	≤0.6	≤0.8	≤1.0	≤1.5	≤2.0	≤2.5
Polarization Dependent Loss	dB	≤0.2	≤0.2	≤0.2	≤0.3	≤0.3	≤0.4	≤0.4
Wavelength-related losses	dB	≤0.5	≤0.5	≤0.5	≤0.5	≤1.0	≤1.0	≤1.0
Return Loss	dB	≥55						
Directivity	dB	≥55						
Fiber Length	m	1.5						
Temperature stability	dB	≤0.5						
Optical Average Power	mW	500						
Operating Temperature	℃	-40~+85						
Storage Temperature	℃	-40~+85						

1×N PLC Splitter Table2

Parameters	Unit	Specifications				
		1×3	1×6	1×12	1×24	1×48
Operating Wavelength	nm	1260~1650				
Fiber Type		G657A1 or Customize				
Insertion Loss	dB	6.1	9.0	12.5	15.5	18.4
Uniformity	dB	≤0.5	≤0.6	≤1.0	≤1.5	≤1.8
Polarization Dependent Loss	dB	≤0.25	≤0.25	≤0.3	≤0.3	≤0.4
Wavelength-related losses	dB	≤0.5	≤0.5	≤0.5	≤1.0	≤1.0
Return Loss	dB	≥55				
Directivity	dB	≥55				
Fiber Length	m	1.5				
Temperature stability	dB	≤0.5				
Optical Average Power	mW	500				
Operating Temperature	℃	-40~+85				
Storage Temperature	℃	-40~+85				

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1×N PLC Splitter Table3 (Multi-Mode Fiber)

Parameters	Unit	Specifications					
		1×2	1×3	1×4	1×6	1×8	1×16
Operating Wavelength	nm	650~1350, or On Request					
Fiber Type		50/125 or 62.5/125 um Multi-Mode Fiber					
Insertion Loss	dB	3.7	5.8	7	9.4	10.5	14
Uniformity	dB	≤0.6	≤0.8	≤1.0	≤1.2	≤1.5	≤1.8
Polarization Dependent Loss	dB	≤0.1	≤0.1	≤0.1	≤0.1	≤0.1	≤0.15
Return Loss	dB	≥40 or On Request					
Directivity	dB	≥50					
Fiber Length	m	1.5 or On Request					
Temperature stability	dB	≤0.5					
Optical Average Power	mW	500					
Operating Temperature	℃	-40~+85					
Storage Temperature	℃	-40~+85					

2×N PLC Splitter Table4

Parameters	Unit	Specifications						
		2×2	2×4	2×8	2×16	2×32	2×64	2×128
Operating Wavelength	nm	1260~1650						
Fiber Type		G657A1 or Customize						
Insertion Loss	dB	3.9/4.2	7.3/7.6	10.5/11	14.4/14.6	17.4/17.9	21/21.5	24.5/25
Uniformity	dB	≤0.6	≤1.0	≤1.2	≤1.5	≤1.8	≤2.2	≤2.5
Polarization Dependent Loss	dB	≤0.2	≤0.2	≤0.2	≤0.3	≤0.3	≤0.4	≤0.4
Wavelength-related losses	dB	≤0.5	≤0.5	≤0.5	≤0.5	≤1.0	≤1.0	≤1.0
Return Loss	dB	≥55						
Directivity	dB	≥55						
Fiber Length	m	1.5						
Temperature stability	dB	≤0.5						
Optical Average Power	mW	500						
Operating Temperature	℃	-40~+85						
Storage Temperature	℃	-40~+85						

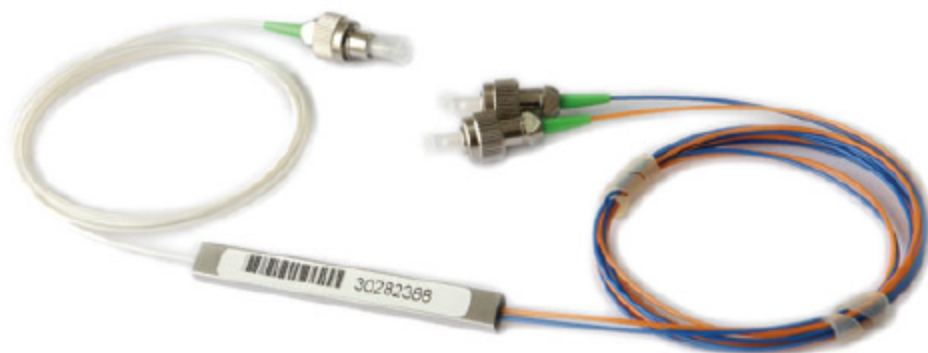
Product range



Item	1×2	1×12	1×64	2×2	2×16
	1×3	1×16		2×4	2×32
	1×4	1×24		2×8	
	1×6	1×32			
	1×8				
L×W×H(mm)	40*4*4	50*7*4	60*12*4	50*4*4	60*7*4

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Item	1×2 1×3 1×4 1×6 1×8	1×12 1×16	1×24 1×32	1×64	2×2 2×4 2×8	2×16	2×32
L×W×H(mm)	60*7*4	60*12*4	80*20*6	100*40*6	60*7*4	80*12*4	100*20*6



Item	1×2 1×4 1×8	1×16 1×32	1×64	2×2 2×4 2×8	2×16 2×32
L×W×H(mm)	100*80*10	120*80*18	140*114*18	100*80*10	120*80*18
L×W (mm)	70*74	80*74	100*106	70*74	80*74

PLC Splitter Spec



Item	1×2 1×4 1×8	1×16	1×32	1×64	2×2 2×4 2×8	2×16	2×32
L*W*H (mm)	130*100*25	130*100*50	130*100*102	130*100*205	130*100*25	130*100*50	130*100*102



Item	1×2 1×4 1×8	1×16	1×32	1×64	2×2 2×4 2×8	2×16	2×32
L*W*H (mm)	124.75×88×25	124.75×88×25			124.75×88×25	124.75×88×25	

PLC Splitter Spec



Order information:

PLC PN: PLC-XXXXXXXX-XX (PLC+9 Code+2 Serial Number)

PLC	XXX	X	X	X	X	X	X	XX
	Port	Package Type	INFiber Jacket	OUTFiber Jacket	Fiber Length	INConnector	OUTConnector	
102	1×2	1 Steel 4×4×40	0 250um Bare Fiber	0 250um Bare Fiber	0 0.5m	0 none	0 none	S N
103	1×3	2 Steel 4×4×50	1 0.9mm Loose	1 0.9mm Loose	1 1.0m	1 SC/APC	1 SC/APC	
104	1×4	3 Steel 4×7×50	2 2.0mm Loose	2 2.0mm Loose	2 1.5m	2 SC/APC	2 SC/APC	
106	1×6	4 Steel 4×7×55	3 3.0mm Loose	3 3.0mm Loose	3 2.0m	3 FC/APC	3 FC/APC	
108	1×8	5 Steel 4×7×60	4 0.9mm Tight Tube	4 0.9mm Tight Tube	4 2.5m	4 FC/APC	4 FC/APC	
112	1×12	6 Steel 4×12×60	5 2.0mm Tight Tube	5 2.0mm Tight Tube	5 3.0m	5 LC/APC	5 LC/APC	
116	1×16	7 Steel 6×20×80	6 3.0mm Tight Tube	6 3.0mm Tight Tube	6 3.5m	6 LC/APC	6 LC/APC	
124	1×24	8 Steel 6×40×100	S Special	F Fan-out	7 0.7m	7 ST/APC	7 ST/APC	
132	1×32	A ABS:90×20×10		R Ribbon Fiber	8 1.2m	8 E2000	8 E2000	
164	1×64	B ABS:80×58×8		S Special	9 2.7m	9 MPO	9 MPO	
188	1×128	C ABS:80×60×12			S Special	S Special	S Special	
202	2×2	D ABS:100×45×10						
...	...	E ABS:100×80×10						
264	2×64	F ABS:120×80×18						
2L8	2×128	G ABS:140×114×18						
00S	Special	H Metal Box						
		J Insert Box						
		K Rackmount						
		L LGX Box						
		M Pallet Type						
		S Special						