

# PLC Splitter - ABS



Planar Light Wave Circuit (PLC) Splitters is a type of optical power management device that is fabricated using silica optical waveguide technology. It is small size, high reliability, wide operating wavelength range and good channel uniformity.

## Features

- Light weight and Simple structure.
- Compact design for space saving.
- Easy for management and operation. Low Insertion loss and Low PDL.
- Uniform power splitting.
- High reliability.
- Excellent environmental stability
- 900µm Fiber
- PC+ABS Material
- Covered under 3C3® Performance Warranty

## Technical Specifications

1x N PLC Splitter (Measured at room Temperature and excludes Connector loss)

Type		1:2	1:4	1:8	1:16	1:32	1:64
Fiber Type				SM 9/125, G657.A1			
Operating Wavelength				1260 ~ 1650nm			
Insertion Loss (dB)	Max	3.8	7.1	10.2	13.5	16.5	20.5
Loss uniformity(dB)	Max	0.6	0.6	0.8	1.2	1.5	2.0
Polarization							
Dependent Loss (dB)	Max	0.15	0.15	0.2	0.2	0.2	0.3
Directivity(dB)	Min			55dB			
Return Loss	Min			UPC 50dB, APC 60dB			
Operating Temperature				-40°C ~ +85°C			
Storage Temperature				-40°C ~ +85°C			

# PLC Splitter – ABS

2x N PLC Splitter (Measured at room Temperature and excludes Connector loss)

Type		2:2	2:4	2:8	2:16	2:32	2:64
Fiber Type				SM 9/125, G657.A1			
Operating Wavelength				1260 ~ 1650nm			
Insertion Loss (dB)	Max	4.1	7.4	10.8	14.3	17.3	20.7
Loss uniformity(dB)	Max	0.8	0.8	1.5	2.0	2.5	2.5
Polarization							
Dependent Loss (dB)	Max	0.2	0.2	0.3	0.4	0.4	0.4
Directivity(dB)	Min			55dB			
Return Loss	Min			UPC 50dB, APC 60dB			
Operating Temperature				-40°C ~ +85°C			
Storage Temperature				-40°C ~ +85°C			

1x N PLC Splitter (Measured at room Temperature and including Connector loss)

Type		1:2	1:4	1:8	1:16	1:32	1:64
Fiber Type				SM 9/125, G657.A1			
Operating Wavelength				1260 ~ 1650nm			
Insertion Loss (dB)	Max	4.1	7.4	10.5	13.8	16.8	20.8
Loss uniformity(dB)	Max	0.6	0.6	0.8	1.2	1.5	2.0
Polarization							
Dependent Loss (dB)	Max	0.15	0.15	0.2	0.2	0.2	0.3
Directivity(dB)	Min			55dB			
Return Loss	Min			UPC 50dB, APC 60dB			
Operating Temperature				-40°C ~ +85°C			
Storage Temperature				-40°C ~ +85°C			

# PLC Splitter – ABS

2x N PLC Splitter (Measured at room Temperature and including Connector loss)

Type		2:2	2:4	2:8	2:16	2:32	2:64
Fiber Type		SM 9/125, G657.A1					
Operating Wavelength		1260 ~ 1650nm					
Insertion Loss (dB)	Max	4.4	7.7	11.1	14.6	17.6	21.0
Loss uniformity(dB)	Max	0.8	0.8	1.5	2.0	2.5	2.5
Polarization							
Dependent Loss (dB)	Max	0.2	0.2	0.3	0.4	0.4	0.4
Directivity(dB)	Min	55dB					
Return Loss	Min	UPC 50dB, APC 60dB					
Operating Temperature		-40°C ~ +85°C					
Storage Temperature		-40°C ~ +85°C					

## Ordering Information

**Product Code**  
81CDE-00XX

**Description**

PLC Splitter ABS, 1Meter  
 C = 2 - UPC, 3 - APC  
 D = 0 - One Input, 1 - Two Input  
 E = 0 - Two Output, 1 - Four Output, 2 - Eight Output, 3 - Sixteen Output, 4 - Thirty-Two Output, 5 - Sixty-Four Output  
 XX= 00 - 2mm, 01 - 3mm