

# PLC Splitter – Rack Mountable



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

- Standard 19-inch Rack Mountable
- Easy for management and operation. Low Insertion loss and Low PDL.
- Uniform power splitting.
- High reliability.
- Excellent environmental stability
- SPCC- Cold Rolled Steel Sheet Material
- SC Connector available in UPC, APC
- Covered under 3C3® Performance Warranty

## Enclosure Specifications

1:16, 1:32, 2:16, 2:32	:	1U
1:64, 2:64	:	2U
1U Dimension (L x W x H)	:	483 x 252 x 44.5mm
2U Dimension (L x W x H)	:	483 x 252 x 89mm
Operating Temperature	:	-20°C ~ +60°C
Storage Temperature	:	-20°C ~ +60°C
Relative Humidity	:	≤85% (+30°C)
Color	:	Black

# PLC Splitter – Rack Mountable

## Technical Specifications

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

Type		1:16	1:32	1:64
Fiber Type			SM 9/125, G657.A1	
Operating Wavelength			1260 ~ 1650nm	
Insertion Loss(dB)	Max	13.5	16.5	20.5
Loss uniformity(dB)	Max	1.2	1.5	2.0
Polarization Dependent Loss (dB)	Max	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	

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

Type		2:16	2:32	2:64
Fiber Type			SM 9/125, G657.A1	
Operating Wavelength			1260 ~ 1650nm	
Insertion Loss(dB)	Max	14.3	17.3	20.7
Loss uniformity(dB)	Max	2.0	2.5	2.5
Polarization Dependent Loss (dB)	Max	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	

# PLC Splitter – Rack Mountable

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

Type		1:16	1:32	1:64
Fiber Type			SM 9/125, G657.A1	
Operating Wavelength			1260 ~ 1650nm	
Insertion Loss(dB)	Max	13.8	16.8	20.8
Loss uniformity(dB)	Max	1.2	1.5	2.0
Polarization Dependent Loss (dB)	Max	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	

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

Type		2:16	2:32	2:64
Fiber Type			SM 9/125, G657.A1	
Operating Wavelength			1260 ~ 1650nm	
Insertion Loss(dB)	Max	14.6	17.6	21.0
Loss uniformity(dB)	Max	2.0	2.5	2.5
Polarization Dependent Loss (dB)	Max	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

### Description

PLC Splitter, Rack Mountable

C = 4 - UPC, 5 - APC

D = 0 - One Input, 1 - Two Input

E = 3 - Sixteen Output, 4 - Thirty-Two Output, 5 - Sixty-Four Output