Planar Lightwave Circuit Splitters

Features

◆ Configurations available from 1x2 to 1x64 and 2x2 to 2x8

◆ Low insertion loss and low PDL

◆ Quality Corning G.657A fiber

◆ Wide available packaging: micro, mini, ABS, LGX or rack mountable packaging

◆ Loose fiber or connector terminated ends with SC and LC, UPC and APC polishing options

◆ RoHS compatible

◆ Wide application and flexible mounting installation, according to applications

Applications

◆ GPON

◆ CATV networks

◆ Digital CATV

◆ FTTH

Description

Our PLC splitters provide a reliable way of splitting optical fiber into multiple paths. We offer configurations ranging from 1x2 to 1x64 and from 2x2 to 2x8 ways of splitting.

Wide application of PLC splitters can be found in PON networks. With various packaging formats, PLC filters can be installed in miniature fiber splicing boxes, fiber trays, junction boxes or even into data communication racks. There are 5 formats in which PLC splitters can be presented:

◆ Micro – very small metal tubes, 3.5mm max diameter, no more than 1x4 config

◆ Mini – small metal enclosures, from 50x7x4mm to 100x20x10mm

◆ ABS – plastic outer shell, usually 80x80x7mm

◆ LGX box – standard size LGX module (4 modules fit in 1RU tray)

◆ 19" rack mountable – 1RU and 2RU metallic frames

Pictures of each models are shown on the following page.

Micro PLC splitters (no connectors 1x16 and 1x32 shown)

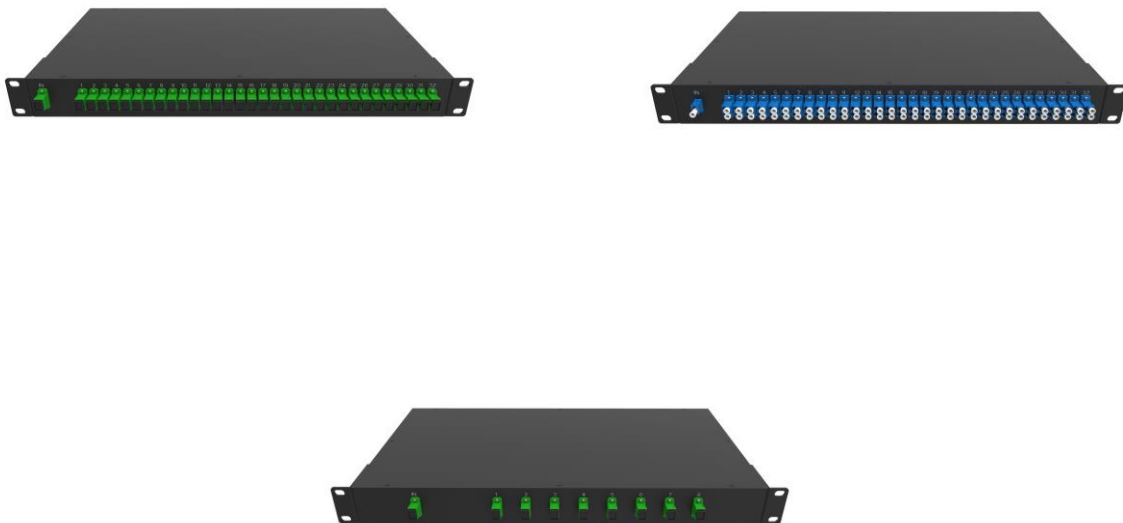Mini PLC splitters (.9 fiber with SC or LC UPC or APC polished connectors)
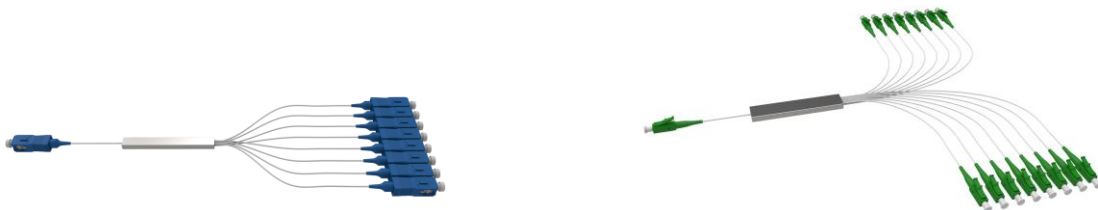
ABS PLC splitters (.9 or 2mm fiber with SC or LC UPC or APC polished connectors)

Metal LGX cassette PLC splitters (with SC or LC, UPC or APC polished connectors)

1RU PLC splitters (with SC or LC, UPC or APC polished connectors)

All PLC splitters are individually tested and labeled with PDL, IL, UF, date of manufacturing and serial numbers displayed on the labels.

Technical Specifications

Parameters	Values		Units	Notes
Channel Number	1×N(2~16)/2xN（2~8）			According to RoHS requirements
Operation Wavelength	1260 ~ 1650		nm	
Test Wavelength	1310/1550		nm	
Insertion Loss	1x2	≤4.0	dB	
	1x4	≤7.4		
	1x8	≤10.5		
	1x16	≤13.6		
	2x2	≤4.5		
	2x4	≤7.8		
	2x8	≤11.1		
Uniformity	1x2/4	≤0.6	dB	
	1x8	≤0.8		
	1x16	≤1.2		
	2x2	≤1.0		
	2x4	≤1.2		
	2x8	≤1.5		
PDL	1x2,1x4	≤0.2	dB	
	1x8,1x16, 2x2,2x4	≤0.3		
	2x8	≤0.4		
Return Loss	≥50		dB	
Directivity	≥55		dB	
Fiber Type	G657A			
Pigtail Type	1xN	Input: 0.9mm loose tube		
	2XN	Input: 0.9mm loose tube		
	Output: 0.9mm loose tube(1×2~16/2x2~8)			
Length	≥1.0		M	
Connector	None			
Fiber Color	Input：white			
	1x2/2x2	Output: Clear		
	1x4/2x4	Output: blue/orange/green/brown		

	1x8/1x16 /2x8	Out: Blue/Orange/Green/Brown/ Gray/White/Red/Black		
Tube Color	1xN	Input：white		
	2xN	Input: white (I1)/Green(I2)		
	1x2/2x2	Output：blue/orange		
	1x4/2x4	Output: blue/orange/green/brown		
	1x8/1x16 /2x8	Out: Blue/Orange/Green/Brown/ Gray/White/Red/Black		
Package Dimensions(L×W×H)	1x2~8/2x2~8	60x7x4	Mm	
	1x16	60x12x4		
Operation Temperature	-40 ~ +85		℃	
Storage Temperature	-40 ~ +85		℃	

Part Numbering System

RB-PLC-XXX-YYY-ZZZ

XXX – number of ports (102 is 1x2, 208 is 2x8, 164 is 1x64, etc)
YYY – type of connector (SCU, SCA, LCU, LCA)
ZZZ – type of packaging (MIK, MIN, ABS, LGX, 1RU, 2RU)
(packaging might be omitted from certain models)

Parameter	XXX	YYY	ZZZ
Values	102, 104, 108, 116, 132, 164, 202, 204, 208	SCU – SC/UPC SCA – SC/SPC LCU – LC/UPC LCA – LC/APC	MIK – micro/metal MIN – mini/metal ABS – plastic LGX – metal LGX box 1RU – metal 19" 1RU chassis 2RU – metal 19" 2RU chassis

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