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# PLC SPLITTERS

1xN Bare Type  
Splitter Module Type

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# 1xN PLC Splitter

FIBICON Advanced Components introduces a family of high performance PLC Splitter Modules. The Modules utilize the optical waveguide chips, which rely on the Plasma Chemical Vapor Deposition (P-CVD) technology and its patented fabrication process for providing stable optical characteristics.

The Modules' silica on silica waveguide and optical fiber array are precisely aligned within an ultra-compact package tested to Telcordia GR-1209 and GR-1221. The package features low Insertion Loss, low Polarization Dependent Loss and high port uniformity. The Splitter modules are available with 1xN up to 64 and 2xN up to 32 channel configurations and also supplied with various connectorized cassette modules.



## Features

- 1x4, 1x8, 1x16, 1x32 and 1x64 configurations available
- 2x4, 2x8, 2x16, 2x32 configurations available
- Telcordia GR-1209 & GR-1221 qualified
- Low insertion loss, PDL, Back Reflection
- High uniformity
- Compact package

## Applications

- PON- FTTX Networks
- CATV
- Outside Plant Equipments
- DWDM and CWDM systems

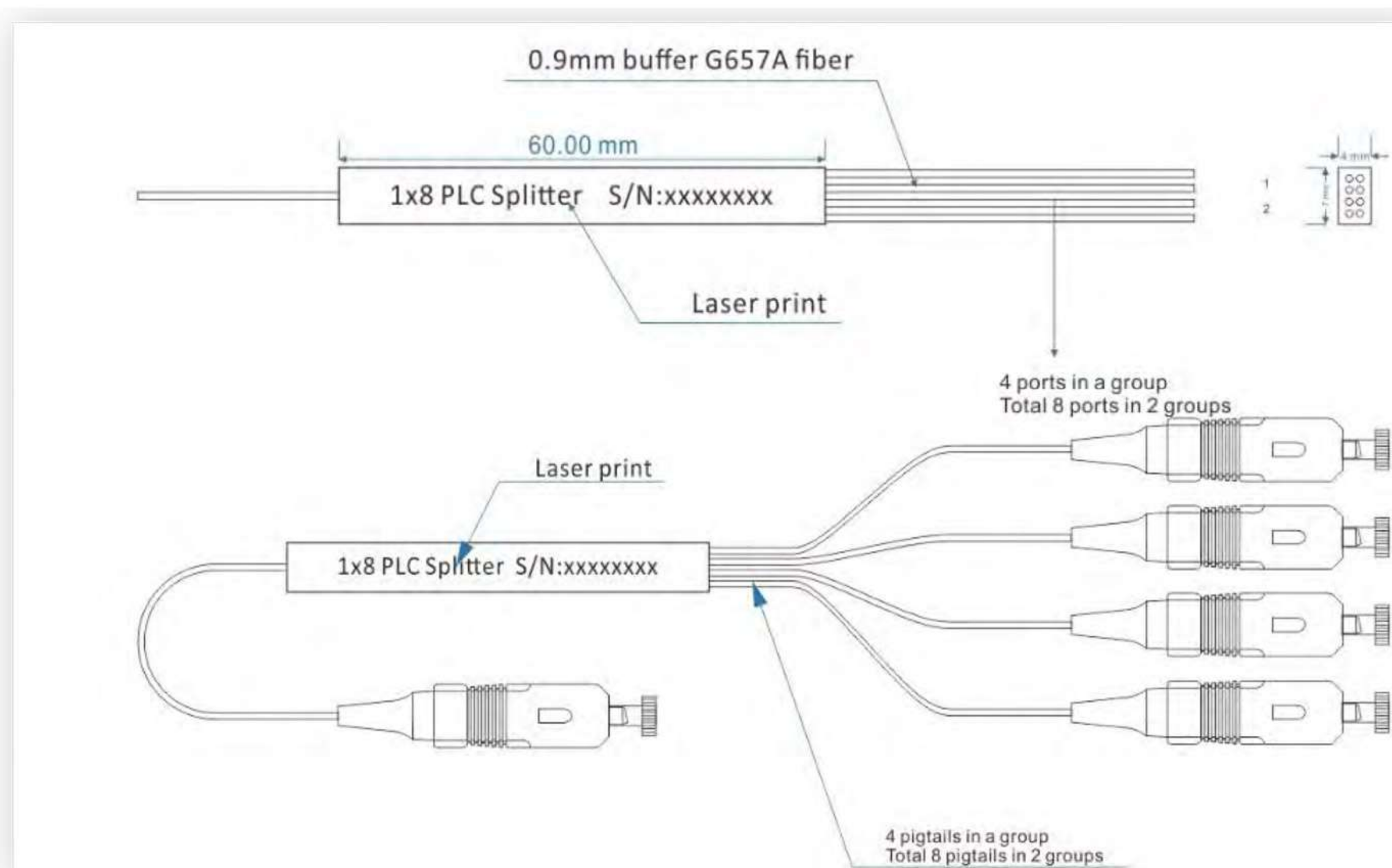
## Ordering information

Product type	Type	Split	Connector Input	Connector Output	Outer sheet	Fiber type	Length
Splitter	B-Bare-type	1- 1x2	1- SC/PC/UPC	1- SC/PC/UPC	1- 0.9mm	1- G657A1	1- 1-0.5m
	M-module-type	2- 1x4	2- SC/APC	2- SC/APC	2- 2mm	2- G657A2	2- 2-1m
	P-Plug-in type	3- 1x8	3- LC/PC/UPC	3- LC/PC/UPC	3- 3mm		3- 3-2m
		4- 1x16	4- LC/APC	4- LC/APC	4- 250µm		
		5- 1x32	5- FC/PC/UPC	5- FC/PC/UPC			
		6- 1x64	6- FC/APC	6- FC/APC			
		7-	7- E200/PC/UPC	7- E200/PC/UPC			
		8- 2x1x8	8- E2000/APC	8- E2000/APC			

**Ordering example: FC04.B32211.2 - Splitter PLC, Bare type 1x8, input connector SC/APC, output connector SC/APC, 0.9mm G.657A1 fiber, length: 1m**

# 1xN PLC Splitter

PLC splitter Bare type 1xN, IN 900µm tight buffer, OUT 900µm tight buffer



## Parameters

Parameters	1x2 Port	1x4 Port	1x8 Port	1x16 Port	1x32 Port	1x64 Port
Operating Wavelength(nm)	1260~1650					
Fiber Type	G.657A1/G.657A2					
Maximum Insertion Loss(dB) ~	3.6	6.9	10.0	13.3	16.5	20.1
Max. uniformity(dB) ~	0.4	0.6	0.6	0.8	1.2	1.5
Return Loss(dB)	≥55 for UPC / ≥60 for APC					
Max. PDL(dB)	0.2	0.2	0.2	0.2	0.3	0.4
Min. directivity(dB)	≥55					
Operating Temperature(°C)	-40~85					
Storage Temperature(°C)	-40~85					
Bare Fiber Dimensions(LxWxH)(mm)	60x7x4	60x7x4	60x7x4	60x12x4	80x20x6	100x40x6

~ For splitters with connectors there is an additional IL up to +0.4 dB

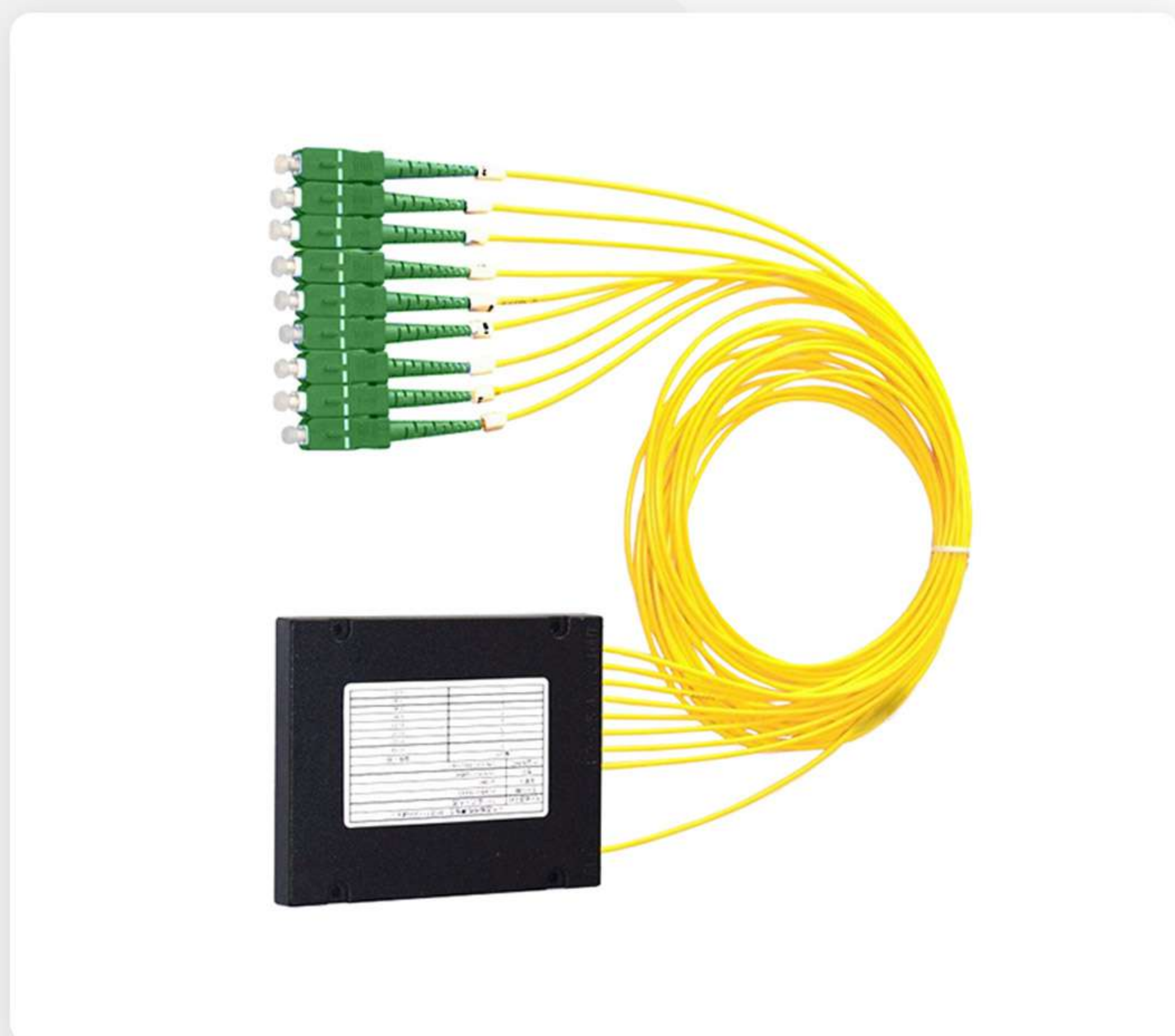
~ For splitters with connectors the uniformity loss is increased by 0.1 dB

Note:

1. Values taken at room temperature, 1310 and 1550nm, without connectors.
2. Custom specification is also available.
3. All types of SM fibre are available.

# PLC splitter Module

FIBICON's Planar Light wave Circuit (PLC) Splitter Modules allows system equipment manufacturers to reduce costs and shorten time to market. High quality, reliable components are assembled at a dedicated custom module manufacturing facility.



## Features

- Compact package
- Stable optical character
- Broadband operating wavelength
- Low insertion loss
- Low back reflection
- Excellent output uniformity

## Applications

- Telecom, datacom
- Local Area Networks (LANs)
- Cable TV (CATV)
- Local Convergence points (LCP)
- FTTX

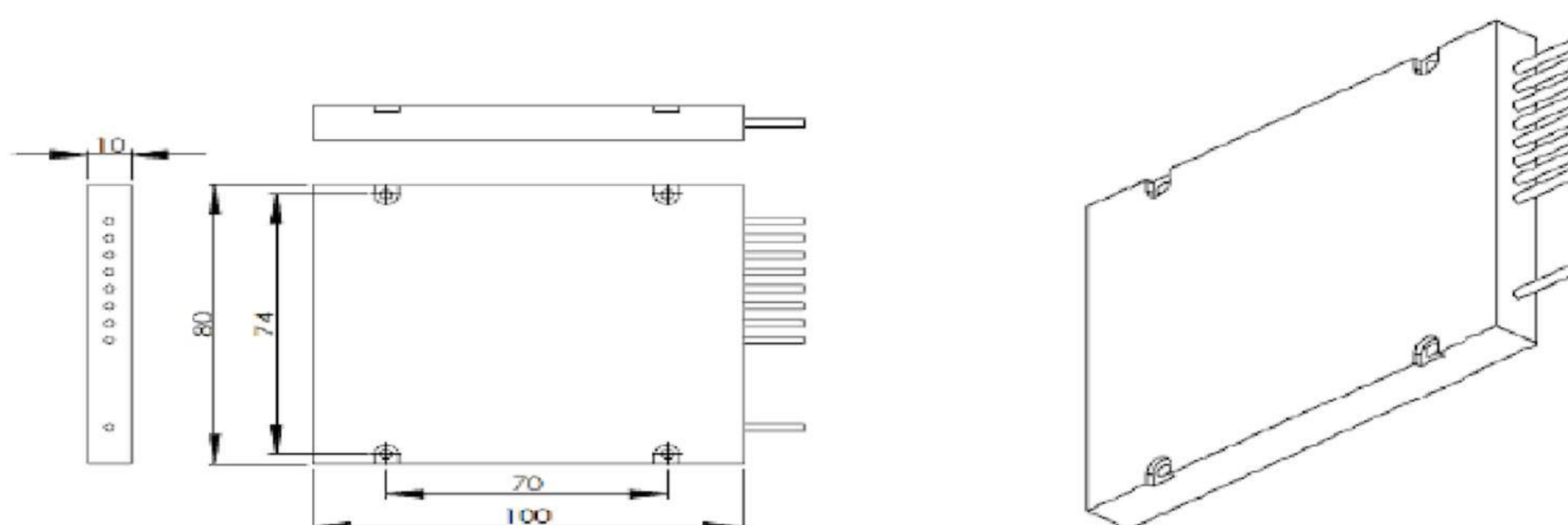
## Ordering information

Product type	Type	Split	Connector Input	Connector Output	Outer sheet	Fiber type	Length
Splitter	B-Bare-type	1- 1x2	1- SC/PC/UPC	1- SC/PC/UPC	1- 0.9mm	1- G657A1	1- 1-0.5m
	M-Module-type	2- 1x4	2- SC/APC	2- SC/APC	2- 2mm	2- G657A2	2- 2-1m
	P-Plug-in-type	3- 1x8	3- LC/PC/UPC	3- LC/PC/UPC	3- 3mm		3- 3-2m
		4- 1x16	4- LC/APC	4- LC/APC	4- 250µm		
		5- 1x32	5- FC/PC/UPC	5- FC/PC/UPC			
		6- 1x64	6- FC/APC	6- FC/APC			
		7-	7- E200/PC/UPC	7- E200/PC/UPC			
		8- 2x1x8	8- E2000/APC	8- E2000/APC			

**Ordering example: FC04.M32231.2 - Splitter PLC, Module type 1x8 , input connector SC/APC, output connector SC/APC, 3mm, G.657A1 fiber, length: 1m**

# PLC splitter Module

## PLC splitter Module type 1xN, 3mm LSZH jacket, OUT 3mm LSZH jacket



## Parameters

Parameters	1x2 Port	1x4 Port	1x8 Port	1x16 Port	1x32 Port	1x64 Port
Operating Wavelength(nm)	1260~1650					
Fiber Type	G.657A1/G.657A2					
Maximum Insertion Loss(dB)	3.6	6.9	10.0	13.3	16.5	20.1
Max. uniformity(dB)	0.4	0.6	0.6	0.8	1.2	1.5
Return Loss(dB)	≥55 for UPC / ≥60 for APC					
Max. PDL(dB)	0.2	0.2	0.2	0.2	0.3	0.4
Min. directivity(dB)	≥55					
Operating Temperature(°C)	-40~85					
Storage Temperature(°C)	-40~85					
Bare Fiber Dimensions(LxWxH)(mm)	90x20x9.5	100x80x10	100x80x10	100x80x10	120x80x18	120x80x18

Note: Add an additional up to 0.3dB loss per connector

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