



Fiber Optical Planar Lightwave Circuit Splitter

Part number : FPLC-xxxxxx-xxx-xx



Overview :

FPLC series PLC Splitter is divided uniformly optical signals from input ports to multiple outputs. It offer 1xN and 2xN up to 128 ports configuration and can be operated in the reverse direction. FPLC series is compliant with Telcordia GR-1209-CORE & GR-1221-CORE and are widely used in distribution equipment like FTTH Ethernet PON System.

Applications :

- FTTx Deployment
- Passive Optical Networks (PON)
- Access / Metro Network
- Broadband / CATV System
- Test Equipment

Features :

- Low Insertion Loss and PDL
- Uniform Power Splitting
- Compact Package for High Density application
- Compliant with Telcordia GR-1209-CORE & GR-1221-CORE
- Bend Insensitive G.657A1 Fiber
- High Polarization Extinction Ratio & Excellent Uniformity.
- Supporting Industrial Standard available.



Technical Parameters :

1xN Splitter

Parameters	1×2	1×4	1×8	1×16	1×32	1×64	1×128
Operating Wavelength	1260～1650nm						
Fiber Type	Default G657A1 or customer specified						
Max. Insertion Loss (P/S Grade) (dB)	3.8 /4.0	7.2/7.4	10.3/10.5	13.5/13.7	16.5/16.9	20.5/21.0	23.8/24.2
Max. Loss Uniformity (dB)	0.4	0.6	0.8	1.2	1.5	2.0	2.5
Max. Polarization Dependent Loss (dB)	0.1	0.1	0.1	0.2	0.25	0.3	0.4
Return Loss (dB)	≧ -55						
Directivity (dB)	≧ -55						
Temperature Stability (-40～85℃)(dB)	≧ 0.3			≧ 0.5			
Operating Temperature	-40～85℃						
Storage Temperature	-40～85℃						

2xN Splitter

Parameters	2×2	2×4	2×8	2×16	2×32	2×64	2×128
Operating Wavelength	1260～1650nm						
Fiber Type	Default G657A1 or customer specified						
Max. Insertion Loss (P/S Grade) (dB)	3.9/4.2	7.3/7.6	10.5/11.0	14.4/14.6	17.4/17.9	21.0/21.5	24.5/25.0
Max. Loss Uniformity (dB)	0.6	1.0	1.2	1.5	1.8	2.2	2.5
Max. Polarization Dependent Loss (dB)	0.2	0.2	0.2	0.3	0.3	0.3	0.4
Return Loss (dB)	≧ -55						
Directivity (dB)	≧ -55						
Temperature Stability (-40～85℃)(dB)	≧ 0.4			≧ 0.5			
Operating Temperature	-40～85℃						
Storage Temperature	-40～85℃						

* S/P : 'S' means 'Standard Grade', and, 'P' means 'Premium Grade'

* IL values are measured @1310&1550nm

* IL, PDL, Uniformity values are for "Without connectors"



Mechanical Dimensions :

1xN Splitter (Dimension: LxWxH, mm)

Parameters	1x2,1x4,1x8	1x16	1x32	1x64	1x128
SUS Case with Ribbon Fiber	40x4x4	50x7x4	50x7x4	60x12x4	N/A
SUS Case with 900um tube	45x4.5x4 / 60x7x4	60x12x4	80x20x6	100x40x6	N/A
Plastic Module Box	100x80x10	120x80x18		140x115x18	
19" Rack-mount distribution box or cabinet	482.6 x 250 x 44 (1U)				482.6 x 250 x 88(2U)

2xN Splitter (Dimension: LxWxH, mm)

Parameters	2x2	2x4,2x8	2x16	2x32	2x64	2x128
SUS Case with Ribbon Fiber	60x7x4	60x7x4	60x7x4/ 70x7x4	60x7x4/ 70x7x4	N/A	N/A
SUS Case with 900um tube	60x7x4		60x12x4/ 80x12x4	80x20x6/ 100x20x6	N/A	N/A
Plastic Module Box	100x80x10		120x80x18	140x115x18		
19" Rack-mount distribution box or cabinet	482.6 x 250 x 44 (1U)				482.6 x 250 x 88(2U)	

* Default color is Black for 19" Rack distribution box and LGX box.



Ordering Information :

FPLC---

Input Port _____
1- 1 Port
2- 2 Port

Output Port _____
02- 2 Ports
04- 4 Ports
08- 8 Ports
16- 16 Ports
32- 32 Ports
64- 64 Ports
A2- 128 Ports

Fiber Type _____
A- G.657A1
B- G.657A2
O- Others

IL Performance _____
S- Standard
P- Premium

Package type _____
SR1- SUS Case with Ribbon Fiber 1M
S11- SUS Case with 0.9mm Tube 1M
P11- Plastic Box with 0.9mm Tube 1M
P21- Plastic Box with 2.0mm Tube 1M
R1U- 19" Rack 1U
R2U- 19" Rack 2U
L14- LGX Box 1x4

Connector Type _____

☐	☐
S- SC type	P- PC type
F- FC type	A- APC type
T- ST type	N- None
L- LC type	
U- MU	
E- E2000	
N- None	