

Blockless PLC Fiber Splitter, Mini Module, Single Mode

STEEL TUBE, BARE FIBRE 250µm, WITH CONNECTOR



Planar lightwave circuit (PLC) splitter is a type of optical power management device that is fabricated using silica optical waveguide technology to distribute optical signals from Central Office (CO) to multiple premise locations. It features small size, high reliability, wide operating wavelength range and good channel-to-channel uniformity. These are widely used in PON networks to realize optical signal power splitting as a low-cost solution.

FEATURES

- Low Insertion Loss
- Low PDL (Polarization Dependent Loss)
- Compact Design
- Exceptional Reliability and Stability
- Wide Operating Wavelength: From 1260nm to 1650nm
- Wide Operating Temperature: From -40°C to 85°C
- Conformed to Telcordia GR-1221, GR-1209 standard and RoHS

APPLICATION

- FTTX Systems
- LAN, WAN and Metro Networks
- Analog/Digital Passive Optical Networks
- CATV Networks

PARAMETERS	1×2	1×4	1×8	1×16	1×32	1×64
Operating Wavelength (nm)	1260~1650					
Fiber Type	G657A1 or customer specified					
Insertion Loss (dB)	≤4.4	≤7.6	≤10.9	≤13.9	≤17.3	≤21.4
Loss Uniformity (dB)	0.4	0.6	0.8	1.2	1.5	2.0
Polarization Dependent Loss (dB)	0.2	0.2	0.2	0.25	0.3	0.35
Return Loss (dB)	≥50	≥50	≥50	≥50	≥50	≥50
Directivity (dB)	≥55	≥55	≥55	≥55	≥55	≥55
Wavelength Dependent Loss (dB)	0.3	0.3	0.3	0.5	0.5	0.5
Operating Temperature (°C)	-40~85					
Storage Temperature (°C)	-40~85					

Note:

1. Specified without connectors.
2. Add an additional 0.2 dB loss per connector.

PARAMETERS	2x2	2x4	2x8	2x16	2x32	2x64
Operating Wavelength (nm)	1260~1650					
Fiber Type	G657A1 or customer specified					
Insertion Loss (dB)	≤4.2	≤7.5	≤11.0	≤14.5	≤17.5	≤21.0
Loss Uniformity (dB)	0.8	1	1.2	1.5	1.8	2.0
Polarization Dependent Loss (dB)	0.2	0.3	0.3	0.3	0.3	0.5
Return Loss (dB)	≥50	≥50	≥50	≥50	≥50	≥50
Directivity (dB)	≥55	≥55	≥55	≥55	≥55	≥55
Operating Temperature (°C)	-40~85					
Storage Temperature (°C)	-40~85					

Note:

1. Specified without connectors.
2. Add an additional 0.2 dB loss per connector.

ORDERING INFORMATION

PRODUCT	PORT	INPUT PIGTAIL STYLE	INPUT CONNECTOR	OUTPUT PIGTAIL STYLE	OUTPUT CONNECTOR	FIBER LENGTH
PLC	1x2	bare fiber 900 μm Loose tube 900 μm Jacket 2.0 mm cable 3.0 mm cable	none	bare fiber 900 μm Loose tube 900 μm Jacket 2.0 mm cable 3.0 mm cable	none	0.5 m 1 m 1.5 m 2 m 3 m
	1x4		SC/PC		SC/PC	
	1x8		SC/APC		SC/APC	
	1x16		FC/PC		FC/PC	
	1x32		FC/APC		FC/APC	
	1x64		ST/PC		ST/PC	
		LC/PC	LC/PC			
		LC/APC	LC/APC			