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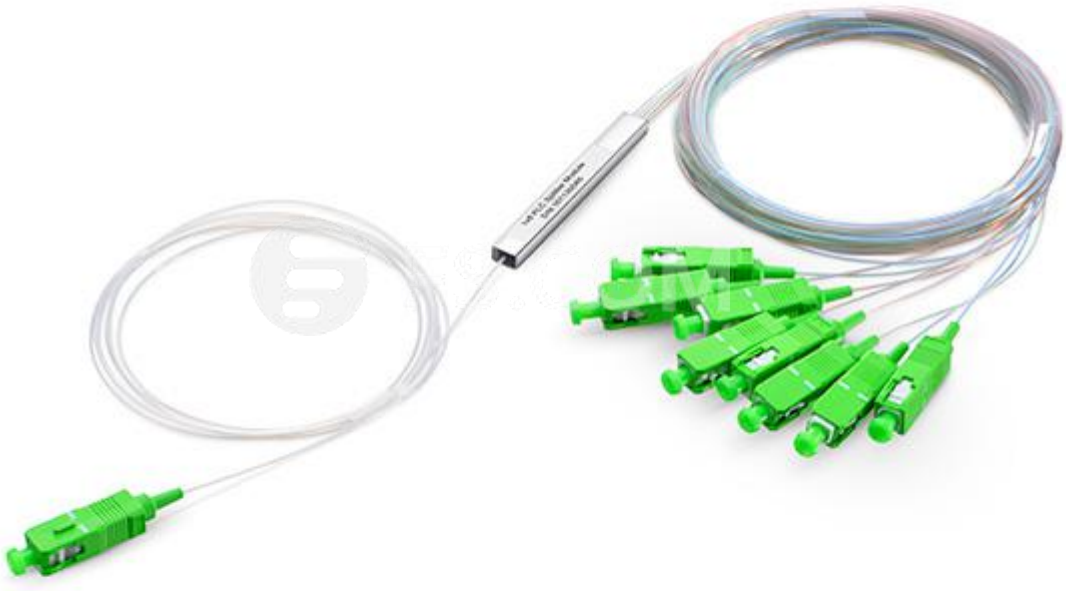
Data Center & Cloud Computing



DATASHEET

Blockless PLC Fiber Splitter, Mini Module, Singlemode

Data Center & Cloud Computing
Infrastruture Solutions

REV.1.0
2018

Overview

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.

FS.COM provides whole series of 1xN and 2xN splitter products that are tailored for specific applications.

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
- Other applications in fiber optic systems

Technical Specification

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) (P/S Grade)	≤4.0	≤7.3	≤10.6	≤13.8	≤17.0	≤20.8
Loss Uniformity (dB)	0.4	0.6	0.8	1.2	1.5	2
Polarization Dependent Loss (dB)	0.2	0.2	0.2	0.25	0.3	0.35
Return Loss (dB) (P/S Grade)	55/50	55/50	55/50	55/50	55/50	55/50
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 (℃)	-40～85					
Storage Temperature (℃)	-40～85					

Note:

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

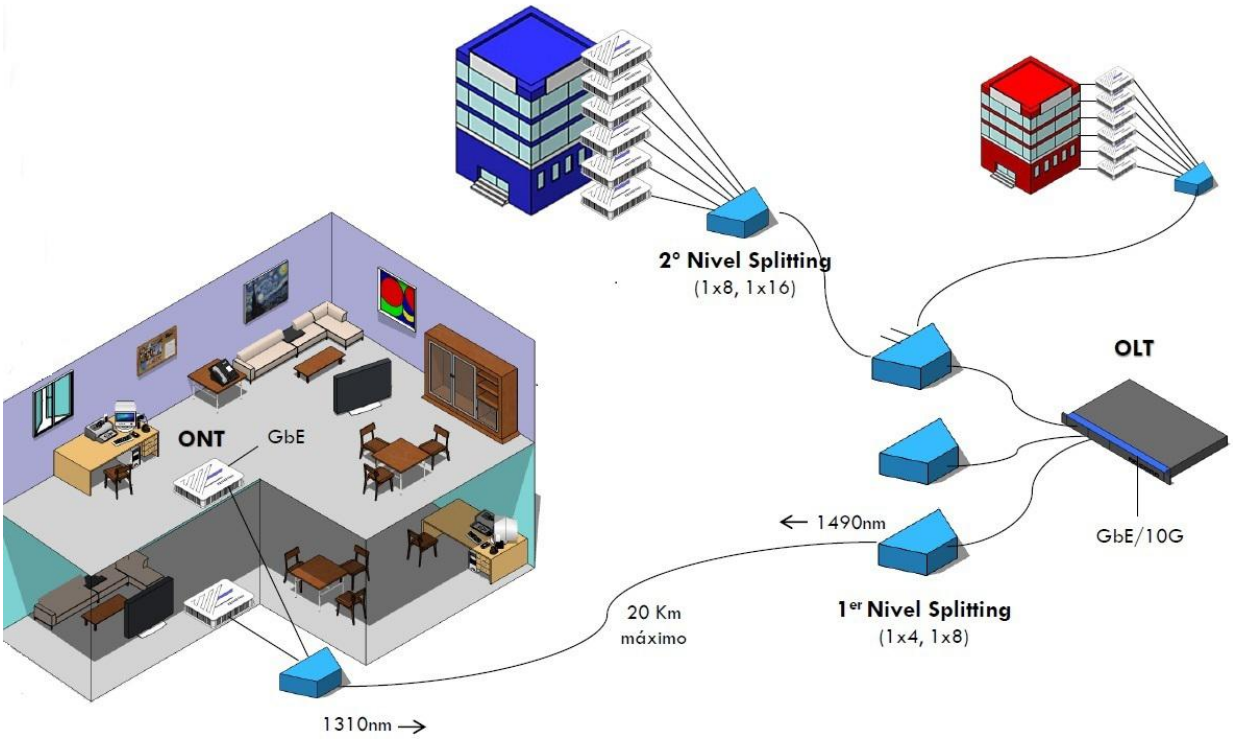
Technical Specification

Parameters	2×2	2×4	2×8	2×16	2×32	2×64
Operating Wavelength (nm)	1260～1650					
Fiber Type	G657A1 or customer specified					
Insertion Loss (dB) (P/S Grade)	≤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
Polarization Dependent Loss (dB)	0.2	0.3	0.3	0.3	0.3	0.5
Return Loss (dB) (P/S Grade)	55/50	55/50	55/50	55/50	55/50	55/50
Directivity (dB)	55	55	55	55	55	55
Operating Temperature (℃)	-40～85					
Storage Temperature (℃)	-40～85					

Note:

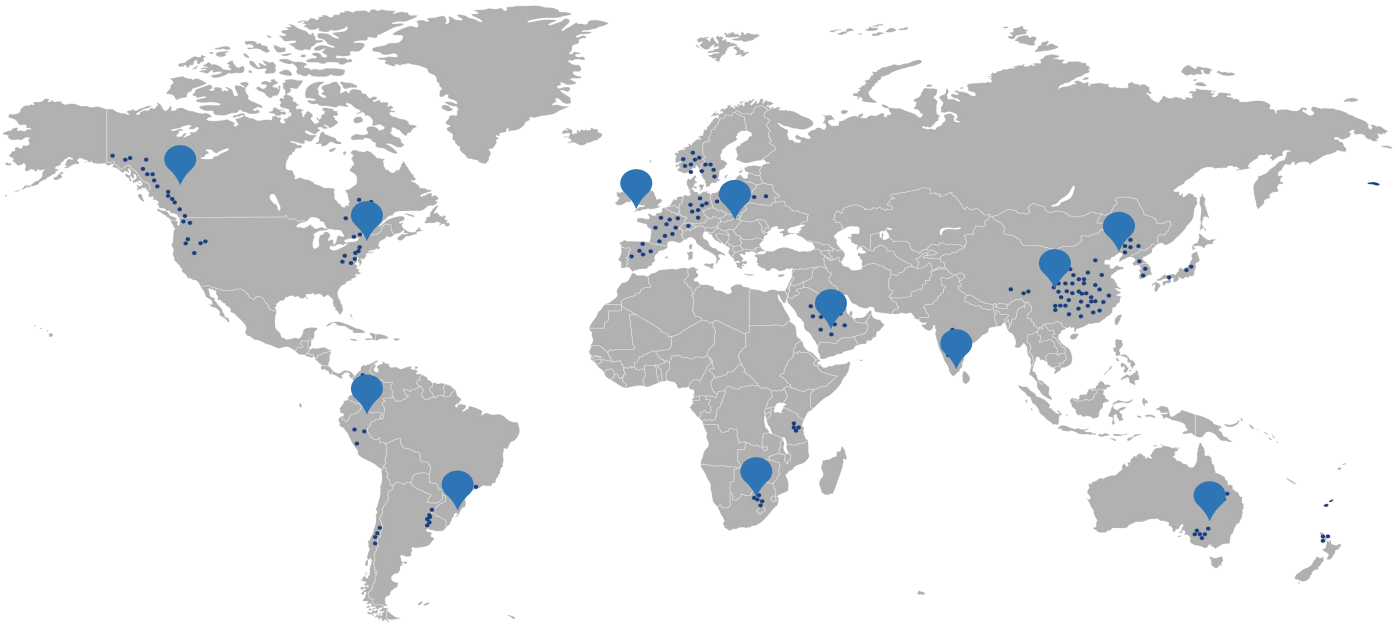
1. Specified without connectors.
2. Add an additional 0.2dB loss per connector.

Applications Configuration Diagram



Ordering Information

Product	Port	Input Pigtail Style	Input Connector	Output Pigtail Style	Output Connector	Fiber Length
PLC	0102=1x2 0104=1x4 0108=1x8 0116=1x16 0132=1x32 0164=1x64	0=bare fiber 1=900um Loose tube 2=900um Jacket 3=2.0mm cable 4=3.0mm cable	0=none 1=SC/PC 2=SC/APC 3=FC/PC 4=FC/APC 5=ST/PC 6=LC/PC 7=LC/APC	0=bare fiber 1=900um Loose tube 2=900um Jacket 3=2.0mm cable 4=3.0mm cable	0=none 1=SC/PC 2=SC/APC 3=FC/PC 4=FC/APC 5=ST/PC 6=LC/PC 7=LC/APC	0=0.5m 1=1m 2=1.5m 3=2m 4=3m



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