

Planar Lightwave Circuit Splitters

Overview

Reliable Photonics full line of PLC (Planar Lightwave Circuit) splitters is ideal for inside/outside plant installations providing superior optical performance and field-proven environmental reliability for FTTx PON applications. PLC splitters are available in a variety of packaging options and can be ordered pre-installed on outside plant splice trays.

The Reliable PLC splitter series are offered with:

1xN up to 64 ports configurations

2xN up to 64 ports configurations



Our optical fiber array and PLC chip are precisely aligned within an ultra compact package and tested according to industry standard test procedures, 100% Temperature Cycle Testing from -40 to +85 °C.

Key Features

Compact Package Convenient for Small Application & High Density Areas

Telcordia GR-1209 & GR-1221-CORE Compliant

Jacketing Material Rated to -40 to +85 °C Operating Temperature

Bend Insensitive G.657A Fiber

Low Insertion Loss and PDL

High Polarization Extinction Ratio & Excellent Uniformity

Offering Unique Designs and Configurations & Supporting Industry Standard Applications

Applications

FTTx Deployments (GPON/BPON/EPON)

CCTV/CATV Links

Access/Metro Networks

Long Haul Telecommunications

PLC Splitter Specifications

1 × N PLC Splitter Specifications

Ports		1×2	1×4	1×8	1×16	1×32	1×64
Operating Wavelength (nm)		1260~1650					
Insertion Loss (dB)	Max(P/S)	3.8/4.0	7.1/7.3	10.2/10.5	13.5/13.7	16.5/16.8	20.5/21.0
Loss Uniformity (dB)	Max	0.6	0.6	0.8	1.2	1.5	2.5
PDL (dB)	Max	0.15	0.15	0.25	0.3	0.3	0.3
Return Loss (dB)	Min	UPC:50 APC:55					
Directivity (dB)	Min	55					
Standard Input Fiber		Bend Insensitive SM Single Fiber(ITU G.657A)					
Standard Output Fiber		Bend Insensitive SM Ribbon Fiber(ITU G.657A)					
Standard Output Color		Blue, Orange ,Green ,Brown, Grey, White ,Red, Black(TIA/EIA 598-B)					
Max.Optical Power(mw)		300					
Humidity Range(rh)		5%~85%					
Operating Temperature(°C)		-40~+85					
Storage Temperature(°C)		-40~+85					
Connector Options		FC/SC/LC/ST/MU/E2000					
Packaging Options		Bare Device*Mini Tube*ABS Module*LGX Box*19"/23" Rack-mount					

*Telcordia GR-1221-CORE&GR-1209-CORE Compliant.

*Premium spec available upon request. (P/S : Premium Grade/Standard Grade)

*Typical value at +23 °C without connectors losses.

2 × N PLC Splitter Specifications

Ports		2×2	2×4	2×8	2×16	2×32	2×64
Operating Wavelength (nm)		1260~1650					
Insertion Loss (dB)	Max(P/S)	4.1 /4.3	7.4/7.6	10.8/11.0	14.3/14.5	17.3/17.5	20.7/21.5
Loss Uniformity (dB)	Max	0.8	0.8	1.5	2.0	2.5	2.5
PDL (dB)	Max	0.2	0.2	0.3	0.4	0.4	0.4
Return Loss (dB)	Min	UPC:50 APC:55					
Directivity (dB)	Min	55					
Standard Input Fiber		Bend Insensitive SM Dual Fiber(ITU G.657A)					
Standard Output Fiber		Bend Insensitive SM Ribbon Fiber(ITU G.657A)					
Standard Output Color		Blue, Orange ,Green ,Brown, Grey, White ,Red, Black(TIA/EIA 598-B)					
Max.Optical Power(mw)		300					
Humidity Range(rh)		5%~85%					
Operating Temperature(°C)		-40~+85					
Storage Temperature(°C)		-40~+85					
Connector Options		FC/SC/LC/ST/MU/E2000					
Packaging Options		Bare Device*Mini Tube*ABS Module*LGX Box*19"/23" Rack-mount					

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