



## 1xN and 2xN PLC Splitter

Wave2Wave Solution Corp. 1XN and 2XN Planar Lightwave Circuit (PLC) Splitters are specially designed for passive optical networks (PONs). These wavelength independent splitters offer low insertion loss, low polarization dependent loss (PDL) and excellent uniformity. They are optimized for field applications, feature low temperature dependence and are highly reliable under extreme environmental conditions. In addition, these Splitters have very high reliability to meet various application requirements. Their compact size makes it easy to use in FTTH, CATV, high density systems, and outside plant equipment.

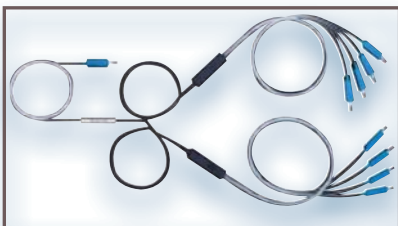
The 1xN PLC Splitter are available in 4, 8, 16 and 32 channel configurations; chassis fittings are also available.

The 2xN PLC Splitters are available in 8, 16, and 32 channel configurations. These Splitters offer the customer the option to insert an overlay signal into a passive optical network (PON), e.g. to combine a video overlay signal on the drop fiber to the customer location. This allows carriers to build flexibility into their PON networks, with minimal additional upfront costs.

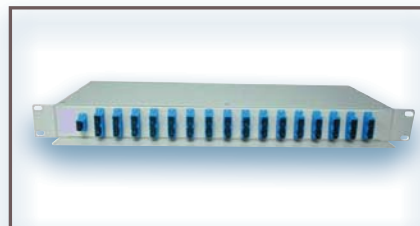
### Performance Specifications

Item	1xN Splitters				2xN Splitters		
Type	1 x 4	1 x 8	1 x 16(1)	1 x 32(1)	2 x 8	2 x 16	2 x 32
Insertion Loss, dB	≤ 7.5	≤ 10.7	≤ 14.5	≤ 18	≤ 11.0	≤ 14.8	≤ 18.3
Uniformity, dB	≤ 0.8	≤ 1.0	≤ 1.5	≤ 2.0	≤ 1.2	≤ 1.7	≤ 2.2
Operating Wavelength, nm	1260 ~ 1650				1260 ~ 1650		
Directivity, dB	≥ 55				≥ 55		
Optical Input Return Loss, dB	≥ 50				≥ 50		
Polarization Dependent Loss, dB	≤ 0.3				≤ 0.3		
Package Size, mm (±0.2mm) (L x W x H)	40 x 4.0 x 4.0 (or modulized)		50 x 7.0 x 4.0 (or modulized)		45 x 5.0 x 4.0 (or modulized)		55 x 7.0 x 4.0 (or modulized)
Storage Temperature, °C	-40 ~ 85 (*)				-40 ~ 85 (*)		
Operating Temperature, °C	-20 ~ 70				-20 ~ 70		
Connectors	FC, SC, LC, MU or ribbon				FC, SC, LC, MU or ribbon		

Note: Without Connector Loss 3.0 °C ~ +70 °C for 900pm, 2.0mm or 3.0m



Packaged PLC with Fanout Ribbon Fibers



P1x32 PLC Splitter in 1RU Chassis

## Features

- Environmentally stable
- Easy Installation
- Custom-defined specification
- Low insertion loss
- High uniformity
- High Reliability

## Benefits

- Broadband Operation which offers great scalability to expand into entire 1260~1650nm wavelength
- Compatible to all of the polarization insensitive applications and networks
- Compact size makes it easy to use in FTTH, CCATV, high density systems, and outside plant equipment

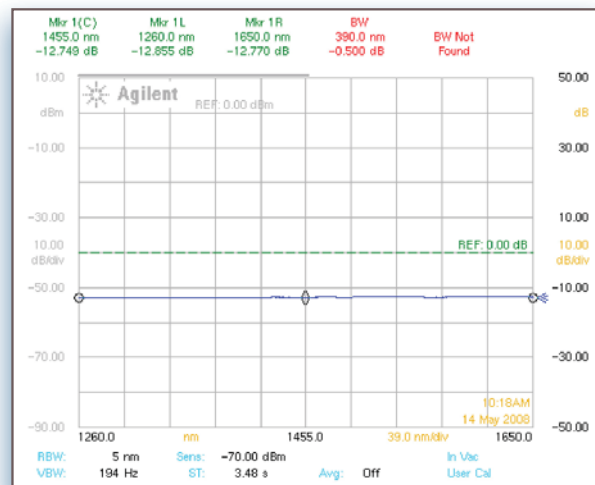
## Applications

- Metro
- Network protection
- Monitoring
- Access/PON distribution
- CATV

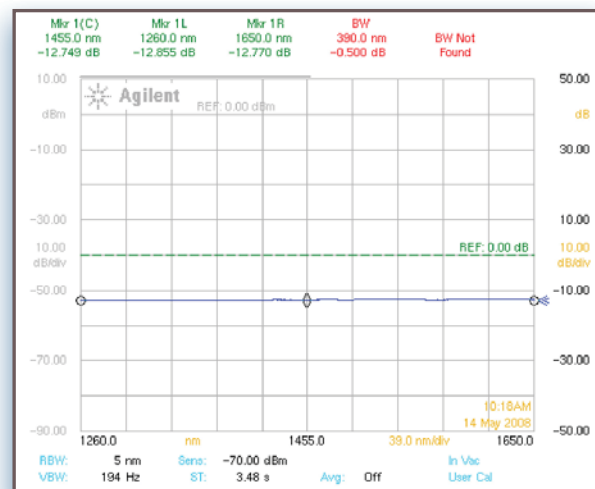
## Environmental Compliance

- Telcordia GR-1221-CORE
- TIA/EIA-568B.3 Fiber Optic Cabling components Standard
- IEE802.3z Standards for Fiber Optic Cabling
- RoHS Certified for European market requirements

## Optical Spectrum for a Typical 1x32 PLC Splitter



## Optical Spectrum for a Typical 1x16 PLC Splitter



Typical spectrum examples, not guaranteed product specification.



**Wave2Wave** provides business essential infrastructure solutions that enable leading enterprises to unlock and realize the benefits of next generation data center technologies. Our data center product families include environmentally friendly and smart network cabling, modular and cost-efficient data centers, optical wavelength management systems and intelligent network infrastructure management software. Our products and solutions serve enterprise, government, military and service provider customers and markets in their mission critical data center and IT applications.



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