

Planar Lightwave Circuit (PLC) Splitter Cassettes

ARIA Planar Lightwave Circuit (PLC) Splitter Cassettes are optical power management devices that are fabricated using silica optical waveguide technology.

They come in the LGX Cassette form factor, feature SC/UPC, SC/APC, LC/UPC, or LC/APC adapter types, and are available in 1x2, 1x4, 1x8, and 1x16 configurations.

ARIA PLC Splitter Cassettes feature small size, high reliability, wide operating wavelength range and good channel-to-channel uniformity, and are widely used in PON networks for optical signal power splitting.

ARIA PLC Splitter Cassettes meet Telcordia GR-1209-CORE, Telcordia GR-1221-CORE, and RoHS requirements.



Features

- Low Insertion loss
- Low PDL
- Compact Design
- Good channel-to-channel uniformity
- Wide Operating Wavelength: From 1260nm to 1650nm
- Wide Operating Temperature: From -40 to 85 °C
- High Reliability and Stability

Applications

- FTTX Systems
- PON Networks
- CATV Links
- Optical Signal Distribution

Specifications

Parameter	1x2 Splitter Values	1x4 Splitter Values	1x8 Splitter Values	1x16 Splitter Values
Operating Wavelength (nm)	1260~1650	1260~1650	1260~1650	1260~1650
Fiber Type	G657A1	G657A1	G657A1	G657A1
Insertion Loss (dB)	4.0	7.3	10.5	13.7
Loss Uniformity (dB)	0.4	0.6	0.8	1.2
Polarization Dependent Loss (dB)	0.2	0.2	0.2	0.25
Return Loss (dB)	50	50	50	50
Directivity (dB)	55	55	55	55
Wavelength Dependent Loss (dB)	0.3	0.3	0.3	0.5
Operating/Storage Temperature (°C)	-40~85	-40~85	-40~85	-40~85
Cassette Dimensions (HxWxD) (mm)	129 x 23 x 70	129 x 23 x 70	129 x 23 x 70	129 x 23 x 70

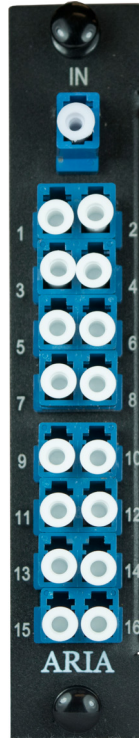
Planar Lightwave Circuit (PLC) Splitter Cassettes Configurations



1x4 LC/UPC



1x8 LC/UPC



1x16 LC/UPC



1x2 SC/APC



1x4 SC/APC



1x8 SC/APC

Part Number

PLC-SPLITTER- 1 1 2 2 2

- 1** Configuration
- 02 = 1x2 Splitter
 - 04 = 1x4 Splitter
 - 08 = 1x8 Splitter
 - 16 = 1x16 Splitter

- 2** Adapter Type
- SCU = SC/UPC
 - SCA = SC/APC
 - LCU = LC/UPC
 - LCA = LC/APC