

# LGX CASSETTE PLC SPLITTER

PLC(Planar Lightwave Circuit)splitters are used to distribute or combine optical signals. It is based on planar lightwave circuit technology and provides a low cost light distribution solution with small form factor and high reliability PLC Splitters are installed in each optical network between the PON Optical Line Terminal (OLT) and the Optical Network Terminals (ONTs) that the OLT serves. Networks implementing BPON, GPON, EPON, 10G EPON, and 10G GPON technologies all use these simple optical splitters. In place of an optical splitter, a WDM PONnetwork will use an Arrayed waveguide (AWG). Passive Optical Network (PON) splitters play an important role in Fibre to the Home (FTTH) networks by allowing a single PON network interface to be shared among many subscribers.



## FEATURES

- Low Insertion Loss & Low PDL.
- Good Channel -to -Channel uniformity.
- Wide Operating Wave length [ 1260 nm to 1650 nm ]
- Excellent Environmental Stability

## APPLICATIONS

- FTTH Systems
- Optical LAN, PON, Metro & Optical CATV

## DESIGN & MATERIALS

Splitter Type	LGX
Configuration Type	1x2, 1x4, 1x8, 1x16, 2x2, 2x4, 2x8, 2x16
Fibre Type	Single mode (G657.A)
Adaptor Type	SC(APC&UPC), LC(APC&UPC)
Adaptor Style	SC: Simplex , LC: Duplex
Fibre Diameter	250µm, 900µm
Operating Temperature	-40°C to 85°C
Storage Temperature	-40°C to 85°C

### 1xN LGX PLC optical splitter

Model	1x2	1x4	1x8	1x16
Wavelength	1260-1650			
Insertion Loss (Max dB)	4.2	7.2	10.5	13.7
Channel Uniformity (Max dB)	0.6	0.8	1.0	1.6
Polarization Dependent Loss (Max dB)	0.2	0.3	0.3	0.3
Return Loss (Min dB)	55.0			
Direction (Min dB)	55.0			

### 2xN LGX PLC Optical Splitter

Model	2x2	2x4	2x8	2x16
Wavelength	1260-1650			
Insertion Loss (Max dB)	4.2	7.3	11.5	14.3
Channel Uniformity (Max dB)	0.8	1.0	1.2	1.5
Polarization Dependent Loss (Max dB)	0.2	0.3	0.3	0.3
Return Loss (Min dB)	55.0			
Direction (Min dB)	55.0			

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## ORDERING INFORMATION

Part Number	Description
3B-104SC27A1X	1x4 Single Mode G657.A1 SC/APC LGX Cassette Splitter
3B-108SC27A1X	1x8 Single Mode G657.A1 SC/APC LGX Cassette Splitter
3B-116SC27A1X	1x16 Single Mode G657.A1 SC/APC LGX Cassette Splitter
3B-204SC27A1X	2x4 Single Mode G657.A1 SC/APC LGX Cassette Splitter
3B-208SC27A1X	2x8 Single Mode G657.A1 SC/APC LGX Cassette Splitter
3B-216SC27A1X	2x16 Single Mode G657.A1 SC/APC LGX Cassette Splitter
3B-104LC27A1X	1x4 Single Mode G657.A1 LC/APC LGX Cassette Splitter
3B-108LC27A1X	1x8 Single Mode G657.A1 LC/APC LGX Cassette Splitter
3B-116LC27A1X	1x16 Single Mode G657.A1 LC/APC LGX Cassette Splitter
3B-204LC27A1X	2x4 Single Mode G657.A1 LC/APC LGX Cassette Splitter
3B-208LC27A1X	2x8 Single Mode G657.A1 LC/APC LGX Cassette Splitter
3B-216LC27A1X	2x16 Single Mode G657.A1 LC/APC LGX Cassette Splitter