

# FIBRE 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 PON network 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

## DESIGN & MATERIALS

Splitter Type	Steel Tube PLC Splitter, Cassette PLC Splitter, FBT Type Splitter
Configuration Type	1x2, 1x4, 1x8, 1x16, 1x32, 1x64 2x2, 2x4, 2x8, 2x16, 2x32, 2x64
Fibre Type	Single mode (G657.A)
Connector Type	SC, LC, FC
Fibre Diameter	250µm, 900µm
Fiber Length	1.0m
Operating Temperature	-40°C to 85°C
Storage Temperature	-40°C to 85°C

### 1×N PLC optical splitter

Model	1x2	1x4	1x8	1x16	1x32	1x64
Wavelength	1260-1650					
Insertion Loss (Max dB)	4.2	7.2	10.5	13.7	17.0	20.6
Channel Uniformity (Max dB)	0.6	0.8	1.0	1.6	1.6	2.0
Polarization Dependent Loss (Max dB)	0.2	0.3	0.3	0.3	0.3	0.5
Return Loss (Min dB)	55.0					
Direction (Min dB)	55.0					
250um Basic type PLC splitter	Dimension (mm) (HxWxL)		4x7x40		4x7x50	4x12x60
900um Steel tube type PLC splitter			4x7x60		4x20x80	6x40x100
Cassette type PLC splitter			10x80x100		18x80x120	18x115x140

### 2×N PLC Optical Splitter

Model	2x2	2x4	2x8	2x16	2x32	2x64
Wavelength	1260-1650					
Insertion Loss (Max dB)	4.2	7.3	11.5	14.3	17.5	21.0
Channel Uniformity (Max dB)	0.8	1.0	1.2	1.5	1.8	2.0
Polarization Dependent Loss (Max dB)	0.2	0.3	0.3	0.3	0.3	0.5
Return Loss (Min dB)	55.0					
Direction (Min dB)	55.0					
250um Basic type PLC splitter	Dimension (mm) (HxWxL)		4x7x50		4x7x60	4x12x60
900um Steel tube type PLC splitter			4x7x60		6x20x80	6x40x100
Cassette type PLC splitter			10x80x100		18x115x140	18x115x140

Note: Above Parameters Without Connector Each Connector will add 0.2 dB.

## ORDERING INFORMATION

Part Number	Description
39-4S32S30N	SC/APC Single Mode 1x32 Steel Tube Bare Fibre Splitter
39-4S16S30N	SC/APC Single Mode 1x16 Steel Tube Bare Fibre Splitter
39-4S08S30N	SC/APC Single Mode 1x8 Steel Tube Bare Fibre Splitter
39-4S04S30N	SC/APC Single Mode 1x4 Steel Tube Bare Fibre Splitter
39-4S02S30N	SC/APC Single Mode 1x2 Steel Tube Bare Fibre Splitter
39-4S0200MN	Single Mode 1x2 Steel Tube Bare Fibre Splitter without Connector
39-4S0400MN	Single Mode 1x4 Steel Tube Bare Fibre Splitter without Connector
39-1S0400MN	Single Mode 2x4 Steel Tube Bare Fibre Splitter without Connector
39-4S0800MN	Single Mode 1x8 Steel Tube Bare Fibre Splitter without Connector
39-4S1600MN	Single Mode 1x16 Steel Tube Bare Fibre Splitter without Connector
39-4S3200MN	Single Mode 1x32 Steel Tube Bare Fibre Splitter without Connector
39-4A0400MN	Single Mode 1x4 G657.A1 Steel Tube Bare Fibre Splitter without Connector
39-4A0800MN	Single Mode 1x8 G657.A1 Steel Tube Bare Fibre Splitter without Connector
39-4A1600MN	Single Mode 1x16 G657.A1 Steel Tube Bare Fibre Splitter without Connector
39-1S1600MN	Single Mode 2x16 Steel Tube Bare Fibre Splitter without Connector
39-7A04S3PX	Single Mode 1x4 G657.A1 SC/APC Cassette Splitter With Connector
39-8A08S3PX	Single Mode 2x8 G657.A1 SC/APC Cassette Splitter With Connector
39-7A32S3PX	Single Mode 1x32 G657.A1 SC/APC Cassette Splitter With Connector
39-4A02S20N	Single Mode 1X2 G657.A1 Steel Tube Bare Fibre Splitter with SC/UPC Connector
39-4A04S20N	Single Mode 1X4 G657.A1 Steel Tube Bare Fibre Splitter with SC/UPC Connector
39-4A08S20N	Single Mode 1X8 G657.A1 Steel Tube Bare Fibre Splitter with SC/UPC Connector
39-4A08S30N	Single Mode 1X8 G657.A1 Steel Tube Bare Fibre Splitter with SC/APC Connector
39-9A16F2PX	Single Mode 1x16 G657.A1 FC/UPC FBT Splitter With Connector
39-9A02F2PX	Single Mode 1x2 G657.A1 FC/UPC FBT Splitter With Connector
39-9A02S2PX	Single Mode 1x2 G657.A1 SC/UPC FBT Splitter With Connector
39-7A04F2PX	Single Mode 1x4 G657.A1 FC/UPC Cassette Splitter With Connector
39-7A08F2PX	Single Mode 1x8 G657.A1 FC/UPC Cassette Splitter With Connector
39-4A16S2MN	Single Mode 1X16 G657.A1 Steel Tube Bare Fibre Splitter with SC/UPC Connector
39-1A16S2MN	Single Mode 2X16 G657.A1 Steel Tube Bare Fibre Splitter with SC/UPC Connector
39-1A04S3MX	Single Mode 2x4 G657.A1 Steel Tube Bare Fibre Splitter With SC/APC Connector
39-1A08S3MX	Single Mode 2x8 G657.A1 Steel Tube Bare Fibre Splitter With SC/APC Connector
39-1A32L3MX	Single Mode 2x32 G657.A1 Steel Tube Bare Fibre Splitter With LC/APC Connector
39-1A16L3MX	Single Mode 2x16 G657.A1 Steel Tube Bare Fibre Splitter With LC/APC Connector
39-4A02L3MX	Single Mode 1x2 G657.A1 Steel Tube Bare Fibre Splitter With LC/APC Connector
39-1A04L3MX	Single Mode 2x4 G657.A1 Steel Tube Bare Fibre Splitter With LC/APC Connector
39-1A08L3MX	Single Mode 2x8 G657.A1 Steel Tube Bare Fibre Splitter With LC/APC Connector