

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 | 4x7x40 | | 4x7x50 | | 4x7x50 | 4x12x60 |
| 900um Steel tube type PLC splitter | 4x7x60 | | 4x12x60 | | 4x20x80 | 6x40x100 |
| Cassette type PLC splitter | 10x80x100 | | 18x80x120 | | 18x115x140 | 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 | 4x7x50 | | 4x7x60 | | 4x7x60 | 4x12x60 |
| 900um Steel tube type PLC splitter | 4x7x60 | | 4x12x70 | | 6x20x80 | 6x40x100 |
| Cassette type PLC splitter | 10x80x100 | | 18x80x120 | | 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 |
| 39-4M02T20N | Multi Mode 1X2 OM2 Steel Tube Bare Fibre Splitter with ST/UPC Connector |
| 39-1S3200MN | Single Mode G652.D 2x32 Steel Tube Bare Fibre Splitter without Connector |