

# FIBRE OPTIC PLC SPLITTER

PLC (Planar Lightwave Circuit) stands for Planar Lightwave Circuit, PLC 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.



## FEATURES

- 19" rack mount. Compact Design.
- Low Insertion Loss & Low PDL.
- Good Channel -to -Channel uniformity.
- Wide Operating Wave length [ 1260 nm to 1650 nm ]
- SC & LC available.
- The body is made of cold rolled steel sheet, with electrostatic spraying.

## COMPLIANCE

- ROHS, GR-1209-CORE-2001
- GR-1221-CORE-1999

## DESIGN & MATERIALS

Mounting Type	Rack
Colour	Black or Beige or white
Material	Cold rolled carbon sheet steel with electrostatic spraying
Rack Type	Fixed
U Size	1U=12/24port, 2U=36/48port
Cable Port Max.	1-64
Environment Temperature- Relative	-40 °C to +85 °C

Cassete PLC Splitter (Spec With No Connector)												
Model	1x2	1x4	1x8	1x16	1x32	1x64	2x2	2x4	2x8	2x16	2x32	2x64
Wavelength	1260-1650											
IL (Typical dB)	3.6	7.0	10.2	13.3	16.5	20.0	4.0	7.1	10.5	14.0	17.0	21.0
IL (Max dB)	3.8	7.2	10.5	13.5	16.5	20.5	4.0	7.5	11.0	14.5	17.5	21.5
Uniformity (Typical dB)	0.3	0.5	0.6	1.0	1.2	1.5	0.4	0.8	1.0	1.2	1.5	1.8
Uniformity (Max dB)	0.6	0.8	1.0	1.4	1.6	1.9	0.6	0.8	1.0	1.4	1.6	1.9
PDL (Typical dB)	0.15	0.15	0.15	0.25	0.25	0.25	0.15	0.15	0.15	0.25	0.25	0.3
PDL (Max dB)	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.3
RL (Typical dB)	55.0											
Direction (dB)	55.0											
Fiber length (m)	1.0 +/-0.1 or Custom specified											
Fiber Type	ITU G652D/G657A or customer specified											
Wavelength dependent loss (Typical dB)	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.3
Wavelength dependent loss (Max dB)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Temprature Stability (Typical db )	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.4
Temperature stability (Max dB)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Operating and storage temperature [°C ]	[-40 to +85 ]											
<b>Note: the above data are with connectors</b>												

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## ORDERING INFORMATION

### SC/APC FIBRE PATCH PANEL

Part Number	Description	Dimension (mm)
39-2S08S3MX	SC / APC SM Fibre Splitter 1x8 R/M	45 x 482 x 250
39-2S16S3MX	SC / APC SM Fibre Splitter 1x16 R/M	45 x 482 x 250
39-2S32S3MX	SC / APC SM Fibre Splitter 1x32 R/M	45 x 482 x 250
39-2S64S3MX	SC / APC SM Fibre Splitter 1x64 R/M	89 x 482 x 250
39-5S08S3MX	SC / APC SM Fibre Splitter 2x8 R/M	45 x 482 x 250
39-5S16S3MX	SC / APC SM Fibre Splitter 2x16 R/M	45 x 482 x 250
39-5S32S3MX	SC / APC SM Fibre Splitter 2x32 R/M	45 x 482 x 250
39-5S64S3MX	SC / APC SM Fibre Splitter 2x64 R/M	89 x 482 x 250

### LC/APC FIBRE PATCH PANEL

Part Number	Description	Dimension (mm)
39-2S08L3MX	LC / APC SM Fibre Splitter 1x8 R/M	45 x 482 x 250
39-2S16L3MX	LC / APC SM Fibre Splitter 1x16 R/M	45 x 482 x 250
39-2S32L3MX	LC / APC SM Fibre Splitter 1x32 R/M	45 x 482 x 250
39-2S64L3MX	LC / APC SM Fibre Splitter 1x64 R/M	89 x 482 x 250
39-5S08L3MX	LC / APC SM Fibre Splitter 2x8 R/M	45 x 482 x 250
39-5S16L3MX	LC / APC SM Fibre Splitter 2x16 R/M	45 x 482 x 250
39-5S32L3MX	LC / APC SM Fibre Splitter 2x32 R/M	45 x 482 x 250
39-5S64L3MX	LC / APC SM Fibre Splitter 2x64 R/M	89 x 482 x 250

X: BK(Black), BG(Beige), WH(White)

## PACKING INFORMATION

Product Type	Packing Length	Packing Mode	N.W (kg)	G.W (kg)	Dimension (mm)
Splitter 1x8 R/M	10 x 1	Carton Box	26.0	28.0	620 x 420 x 430
Splitter 1x16 R/M	10 x 1	Carton Box	26.0	28.0	620 x 420 x 430
Splitter 1x32 R/M	10 x 1	Carton Box	26.0	28.0	620 x 420 x 430
Splitter 1x64 R/M	10 x 1	Carton Box	26.0	28.0	620 x 420 x 430
Splitter 2x8 R/M	10 x 1	Carton Box	26.5	28.5	620 x 420 x 430
Splitter 2x16 R/M	10 x 1	Carton Box	26.5	28.5	620 x 420 x 430
Splitter 2x32 R/M	10 x 1	Carton Box	26.5	28.5	620 x 420 x 430
Splitter 2x64 R/M	10 x 1	Carton Box	26.5	28.5	620 x 420 x 430