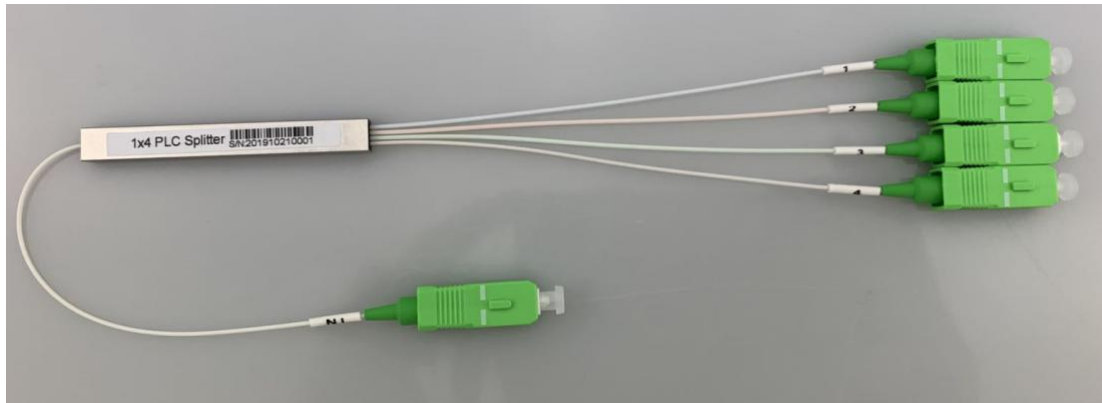


PLC Splitter Specification



(PLC Differential type)

Ordering Information:

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Product type	Inlet and exit diameter	Inlet and fiber length	Package size
1XN or 2XN 0102=1X2 0103=1X3 0104=1X4 0105=1X5 0106=1X6 0107=1X7 0108=1X8 0112=1X12 0116=1X16 0124=1X24 0132=1X32 0164=1X64 1128=1X128	2=0.9mm	0=0.5M 1=1.0M 2=1.5M 3=2.0M 4=2.5M S=Customized	1x2 } ↑↓ } 4x7x60mm 1x8 } 1x12 } ↑↓ } 4x12x60 mm 1x16 } 1x24 } } 6x20x80 mm 1x32 } 1x64 } 6x40x100 mm 1x128 } 7x80x100 mm

Product description:

The planar waveguide optical splitter (PLC Splitter) is a quartz-based integrated waveguide optical power distribution device with small size, wide operating wavelength range, high reliability, good spectral uniformity, etc., especially suitable for passive optical networks. (EPON, GPON, etc.) connects the central office and terminal equipment and realizes the splitting of optical signals, providing 1XN and 2XN full range of products, and does not customize the optical splitter suitable for various occasions.

Product features:

Low loss and stable polarization

Compact design

Good channel uniformity

High stability and reliability

Operating temperature: -40 - 85 °C

Certified by Telcordia GR.1209 and GR.1221.

Product application areas:

Fiber to the home

Passive optical network

wired TV internet



SHENZHEN SEACENT PHOTONICS CO.,LTD.

Web:www.seacentfiber.com

PON-FTTX network

Technical parameters: 1XN optical splitter

Parameter	1X2	1X3	1X4	1X6	1X8	1X12	1X16	1X24	1X32	1X48	1X64	1X128
Working wavelength (nm)	1260-1650											
Fiber type	G657A1 or customized											
Insertion loss (dB)	3.9	6.1	7.2	9.0	10.2	12.5	13.5	15.5	16.8	18.4	20.1	23.8
Uniformity (dB)	≤0.4	≤0.5	≤0.5	≤0.6	≤0.8	≤1.0	≤1.0	≤1.5	≤1.5	≤1.8	≤1.8	≤2.5
Polarization dependent loss (dB)	≤0.25	≤0.25	≤0.25	≤0.25	≤0.25	≤0.3	≤0.3	≤0.3	≤0.3	≤0.4	≤0.35	≤0.35
Return loss (dB)	≥55											
Directionality (dB)	≥55											
Fiber length (m)	1.0 or customized											
Temperature stability (dB)	-40°C - 85°C (≤0.5)											
Working temperature ° C	-40°C - 85°C											
Storage temperature ° C	-40°C - 85°C											
Maximum power (nW)	1000											

Note: The above IL is without the connector parameters.

1XN with connector optical splitter insertion loss in the above requirements in addition to 1X2 increase does not exceed 0.2dB, the remaining increase does not exceed 0.3dB.

Technical parameters: 1XN optical splitter

Parameter	2X2	2X4	2X8	2X16	2X32	2X64
Working wavelength (nm)	1260-1650					
Fiber type	G657A1or customized					
Insertion loss (dB)	4.2	7.5	10.5	13.8	17.1	20.4
Uniformity (dB)	≤0.8	≤1.0	≤1.0	≤1.5	≤1.5	≤2.0
Polarization dependent loss (dB)	≤0.25	≤0.25	≤0.25	≤0.3	≤0.3	≤0.35
Return loss (dB)	≥55					
Directionality (dB)	≥55					
Fiber length (m)	1.0 or customized					
Temperature stability (dB)	-40°C - 85°C (≤0.5)					
Working temperature ° C	-40°C - 85°C					
Storage temperature ° C	-40°C - 85°C					



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Maximum power (nW)	1000
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Note: The above IL is without the connector parameters.

2XN with connector optical splitter insertion loss increased by no more than 0.3dB in the above requirements.