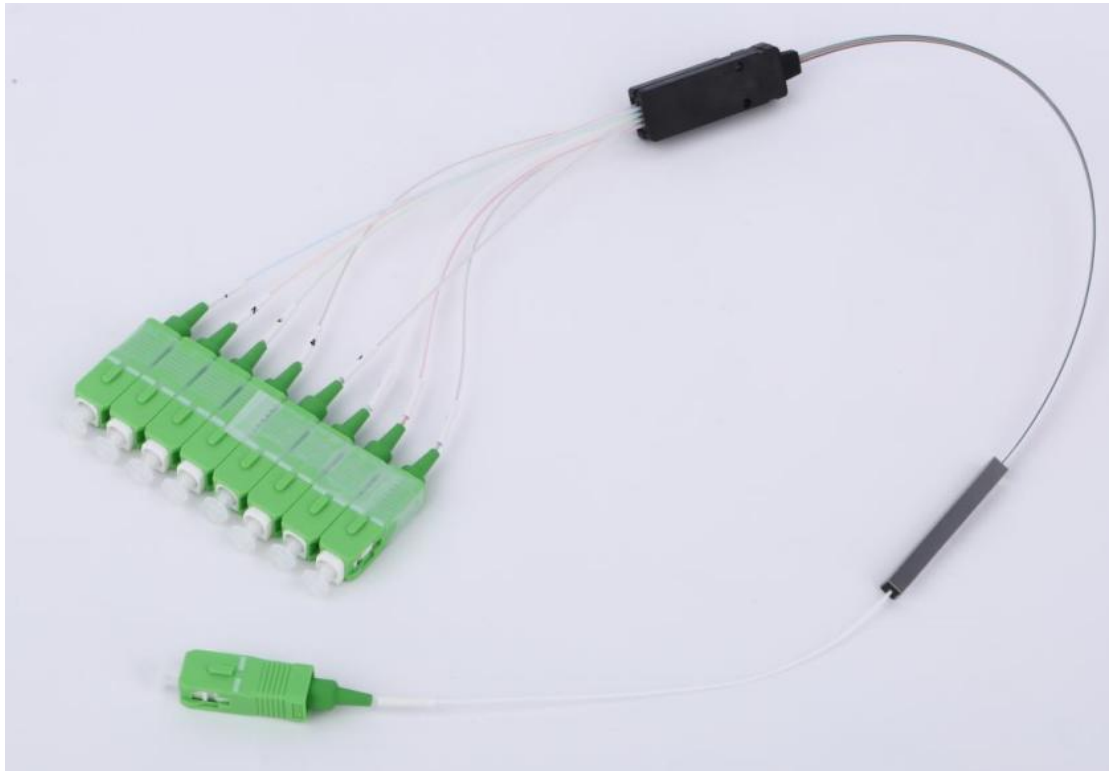


PLC splitter specification



(PLC Branch type)

Ordering Information:

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Product type	Fiber diameter	Inlet and fiber length	Package size
1XNor 2XN 0104=1X4 0108=1X8 0116=1X16 0132=1X32 0164=1X64	1=250um 2=900um	0=0.5M 1=1.0M 2=1.5M 3=2.0M 4=2.5M S=Customized	1x4 } ↓ 1x8 } 4x4x40 mm or 4x5x40 mm 1x16 } ↓ 1x32 } 4x7x60 mm 1x64 4x12x60 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

Certified by Telcordia GR.1209 and GR.1221.

Product application areas:

fiber to the home

Passive optical network

Cable TV network

PON-FTTX network



Technical parameters: 1XN optical splitter

Parameter	1X4	1X8	1X16	1X32	1X64
Working wavelength (nm)	1260-1650				
Fiber type	G657A1 or customized				
Insertion loss (dB)	7.2	10.2	13.5	16.8	20.1
Uniformity (dB)	≤ 0.5	≤ 0.8	≤ 1.0	≤ 1.5	≤ 1.8
Polarization dependent loss (dB)	≤ 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)	$-40^{\circ}\text{C}--85^{\circ}\text{C}(\leq 0.5)$				
Working temperature $^{\circ}\text{C}$	$-40^{\circ}\text{C}--85^{\circ}\text{C}$				
Storage temperature $^{\circ}\text{C}$	$-40^{\circ}\text{C}--85^{\circ}\text{C}$				
Maximum power (nW)	1000				



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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: 2XN optical splitter

Parameter	2X4	2X8	2X16	2X32	2X64
Working wavelength (nm)	1260-1650				
Fiber type	G657A1 or customized				
Insertion loss (dB)	7.5	10.5	13.8	17.1	20.4
Uniformity (dB)	≤ 1.0	≤ 1.0	≤ 1.5	≤ 1.5	≤ 2.0
Polarization dependent loss (dB)	≤ 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)	$-40^{\circ}\text{C} - 85^{\circ}\text{C} (\leq 0.5)$				
Working temperature $^{\circ}\text{C}$	$-40^{\circ}\text{C} - 85^{\circ}\text{C}$				



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Storage temperature ° C	-40°C - 85°C
Maximum power (nW)	1000

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.