OPTiFab Fibre Optic

Planar Lightwave Circuit (PLC) Splitter Range

Planar lightwave circuit (PLC) splitter is a type of optical power management device that is fabricated using silica optical waveguide technology. It features small size, high reliability, wide operating wavelength range and good channel-to-channel uniformity, and is widely used in PON networks to realize optical signal power splitting. Optifab provides a whole series of 1xN and 2xN splitter products that are tailored for specific applications. All products meet GR-1209-CORE-2001 and GR-1221-CORE-1999 requirements.

FEATURES

- Low Insertion loss
- Low PDL
- Compact Design
- Good channel-to-channel uniformity
- Wide Operating Wavelength: From 1260nm to 1650nm
- Wide Operating Temperature: From -40°C to 85°C
- High Reliability and Stability

APPLICATIONS

- FTTX Systems
- PON Networks
- CATV Links
- Optical Signal Distribution

COMPLIANCE

- Telcordia GR-1209-CORE-2001
- Telcordia GR-1221-CORE-1999
- RoHS

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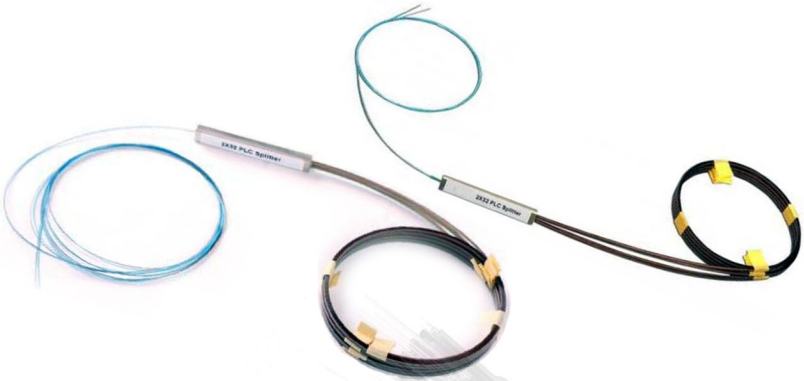
Planar Lightwave Circuit (PLC) Splitter Range

Bare Fiber PLC splitter



DESCRIPTION

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- Low PDL
- Compact Design
- Good channel-to-channel uniformity
- Wide Operating Wavelength: 1260-1650nm
- Wide Operating Temperature: -40℃ to 85℃
- High Reliability and Stability

PACKING

1*2	1*4	1*8	1*16	1*32
40*4*4mm	40*4*4mm	40*4*4mm	50*7*4mm	50*7*4mm
2*2	2*4	2*8	2*16	2*32
40*4*4mm	40*4*4mm	40*4*4mm	50*7*4mm	50*7*4mm

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Planar Lightwave Circuit (PLC) Splitter Range

0.9mm steel tube PLC splitter

DESCRIPTION

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- Low PDL
- Compact Design
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- Wide Operating Wavelength: 1260-1650nm
- Wide Operating Temperature: -40℃ to 85℃
- High Reliability and Stability

PACKING

1*2	1*4	1*8	1*16	1*32
40*4*4mm	50*7*4mm	50*7*4mm	60*12*4mm	80*20*6mm
2*2	2*4	2*8	2*16	2*32
40*4*4mm	50*7*4mm	50*7*4mm	60*12*4mm	80*20*6mm

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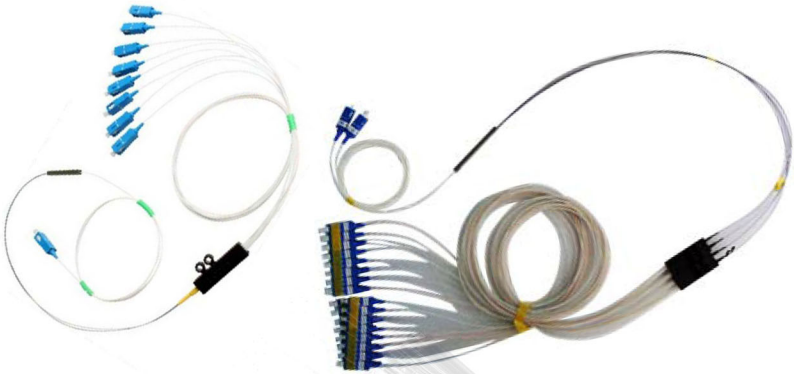
Planar Lightwave Circuit (PLC) Splitter Range

Fanout PLC splitter



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- Low PDL
- Compact Design
- Good channel-to-channel uniformity
- Wide Operating Wavelength: 1260-1650nm
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- High Reliability and Stability

PACKING

1*2	1*4	1*8	1*16	1*32
40*4*4mm	50*7*4mm	50*7*4mm	60*12*4mm	80*20*6mm
2*2	2*4	2*8	2*16	2*32
40*4*4mm	50*7*4mm	50*7*4mm	60*12*4mm	80*20*6mm

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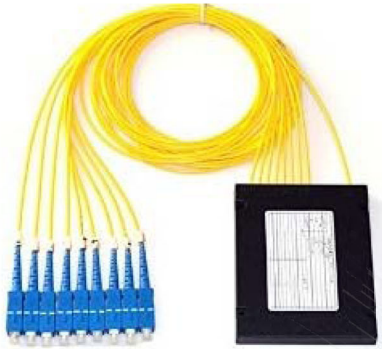
Planar Lightwave Circuit (PLC) Splitter Range

Cassette type PLC Splitter



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- Low PDL
- Compact Design
- Good channel-to-channel uniformity
- Wide Operating Wavelength: 1260-1650nm
- Wide Operating Temperature: -40℃ to 85℃
- High Reliability and Stability

PACKING

1*2	1*4	1*8	1*16	1*32
90*20*10mm	100*80*10mm	100*80*10mm	120*80*18mm	140*115*18mm
2*2	2*4	2*8	2*16	2*32
90*20*10mm	100*80*10mm	100*80*10mm	120*80*18mm	140*115*18mm

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Planar Lightwave Circuit (PLC) Splitter Range

LGX PLC splitter

DESCRIPTION

- Low Insertion loss
- Low PDL
- Compact Design
- Good channel-to-channel uniformity
- Wide Operating Wavelength: 1260-1650nm
- Wide Operating Temperature: -40°C to 85°C
- High Reliability and Stability

PACKING

1*2	1*4	1*8	1*16	1*32
302*180*25mm	302*180*25mm	302*180*25mm	302*180*25mm	302*180*50mm
2*2	2*4	2*8	2*16	2*32
302*180*25mm	302*180*25mm	302*180*25mm	302*180*25mm	302*180*50mm

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Planar Lightwave Circuit (PLC) Splitter Range

Tray type PLC splitter

DESCRIPTION

Tray type splitter can be installed in standard 19'' fiber optic distribution frame or fiber optic cross-connection cabinet 19 inch, Industry-standard bulkhead Style
Highest Splitter Densities to Maximize Rack Space
Flexible and scalable platforms

PACKING

1*2	1*4	1*8	1*16	1*32
302*180*25mm				302*180*50mm
2*2	2*4	2*8	2*16	2*32
302*180*25mm				302*180*50mm

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Planar Lightwave Circuit (PLC) Splitter Range

Tray type PLC Splitter

DESCRIPTION

Tray type splitter can be installed in standard 19'' fiber optic distribution frame or fiber optic cross-connection cabinet 19 inch, Industry-standard bulkhead Style
Highest Splitter Densities to Maximize Rack Space
Flexible and scalable platforms

PACKING

1*2	1*4	1*8	1*16	1*32
302*180*25mm				302*180*50mm
2*2	2*4	2*8	2*16	2*32
302*180*25mm				302*180*50mm

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SPECIFICATIONS

PLC Splitter 1×N、2XN PLC Splitter

Parameter	1X2	2X2	1X4	2X4	1X8	2X8	1X16	2X16	1X32	2X32	1X64	2X64
Operating Wavelength (nm)	1260~1650											
Fiber Type	G657A or customer specified											
Insertion Loss (dB) (P/S Grade)	3.8/4.0	4.0/4.2	7.1/7.3	7.6/7.6	10.2/10.5	11.0/11.2	13.5/13.7	14.4/14.6	16.5/16.9	17.5/17.9	20.5/21.0	21.0/21.5
Loss Uniformity (dB)	0.4	0.6	0.6	1.0	0.8	1.2	1.2	1.5	1.5	2.0	2.0	2.2
Return Loss (dB) (P/S Grade)	55/50											
Polarisation Dependent Loss (dB)	0.2	0.2	0.2	0.2	0.2	0.3	0.25	0.3	0.3	0.4	0.35	0.4
Directivity (dB)	55											
Wavelength Dependent Loss (dB)	0.3	0.3	0.3	0.4	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Temperature Stability (-40 ~85℃) (dB)	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5
Operating Temperature (℃)	-40°C to 85°C											
Storage Temperature (℃)	-40°C to 85°C											
Device Dimension (mm) (L×W×H)	40×4×4		40×4×4	50×4×4	40×4×4	50×4×4		50×7×4		60×7×4	60×12×4	

ORDERING INFORMATION

A	B/C	D/E	F/G	H	
PLC	Port	Input/Output Pigtail Type	Input/Output Fiber Length	Input/Output Connector	Package Type
PLC	102=1 x 2 104=1 x 4 108=1 x 8 116=1 x 16 132=1 x 32 164=1 x 64 202=2 x 2 204=1 x 4 208=1 x 8 216=1 x 16 232=1 x 32	1=900um loose tube 2=2.0mm loose tube 3=3.0mm loose tube	05=0.5M 10=1.0M 15=1.5M	0=None FU=FC/UPC FA=FC/APC SU=SC/UPC SA=SC/APC LU=LC/UPC LA=LC/APC ST=ST X=Others	P2=100 x 80 x 10.5mm P3=120 x 80 x 18mm P4=140 x 115 x 18 mm XL=1,2,3,4U LGX Module X=Others