

## Optical Passives- TGlass

### PLC Optical Splitter ABS Black



PLC ABS 1x16

The PLC (Planar Wave Circuit) optical splitter ABS black is used for dividing optical power transmitted in an optical channel. Unlike FBT (Fused Biconical Taper) splitters, planar technology allows for the production of splitters with up to 128 outputs, ensuring compact dimensions and very high stability across a broad wavelength range from 1260 to 1620 nm. The use of G.657A2 fibers ensures a small bending radius.



PLC ABS 1x2



PLC ABS 1x8

#### Features:

- high-quality construction,
- low insertion loss,
- temperature stability,
- uniform splitting and consistent performance parameters.

#### Application:

- FTTx networks and subscriber connections,
- PON systems,
- CATV networks,
- LAN, WAN, MAN networks.

## TECHNICAL PARAMETERS

NAME/ PARAMETERS		1x2	1x4	1x8	1x16	1x32	1x64
Operating Wavelength (nm)		1260 ~ 1650					
Insertion Loss (IL) (dB)	Typical	3.6	6.8	10	13.1	16.2	20
	Maximum	4.0	7.4	10.7	13.7	16.8	21.0
Uniformity (dB)	Typical	0.3	0.4	0.5	0.6	0.8	1.2
	Maximum	0.4	0.6	0.8	1.2	1.5	2.5
PDL (dB)	Typical	0.1	0.1	0.15	0.15	0.15	0.2
	Maximum	0.2	0.2	0.3	0.3	0.3	0.4
Return Loss (RL) (dB)	Minimum	60 (APC) 50 (UPC)					
Directivity (dB)	Minimum	55					
Fiber Length (m)	m	2 x 1					
Fiber Type		9/125 G657A2					
WDL (dB)	Typical	0.2	0.2	0.2	0.3	0.3	0.3
	Maximum	0.3	0.3	0.3	0.5	0.5	0.5
TDL (dB) (-40~85°C)	Typical	0.2	0.2	0.2	0.3	0.3	0.3
	Maximum	0.4	0.4	0.4	0.5	0.5	0.5
Operating Temperature	°C	-40~85					
Storage Temperature	°C	-40~85					
Dimensions	mm	90x20x10	100x80x10	120x80x20			

All PLC splitters are delivered with a certificate that includes:

- splitting ratio, connector type, fibre type and length
- measurement results for insertion loss (IL) and return loss (RL) expressed in decibels.

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