

1xN 2xN PLC Splitters

Growth in today's broadband applications demand reliable high performance splitters for use within a variety of environmental conditions and packaging options. A move towards PON's within the FTTX arena calls for a device offering low insertions loss, linear uniformity and low return loss, our splitters provide excellent specifications as well as complying to and exceeding Telcordia GR-1221-CORE and GR-1209-CORE standards.



Features

- Designed to meet Telcordia standards
- Low IL and PDL
- Excellent uniformity
- Range of packaging options available
- High specification connectors available

Applications

- FTTX deployments
- CATV networks
- PON's
- WAN's

Specification

PARAMETERS	SPLITTER TYPE (ABS TYPE)											
	1x2	1x4	1x8	1x16	1x32	1x64	2x2	2x4	2x8	2x16	2x32	
Operating Wavelength	1260~1650nm											
Insertion Loss (MAX, dB)	3.8	7.2	10.5	13.5	16.5	20.5	3.9	7.5	11.2	14.2	17.4	
Return Loss (dB)	55	55	55	55	55	55	55	55	55	55	55	
PDL (MAX, dB)	0.2	0.2	0.3	0.3	0.3	0.4	0.2	0.2	0.4	0.4	0.4	
Loss Uniformity (MAX, dB)	0.4	0.6	0.8	1.2	1.5	2.5	0.6	1.2	1.5	1.8	2	
Directivity (dB)	55	55	55	55	55	55	55	55	55	55	55	
Dimension, Component type												
Length (mm)	40	40	40	40	50	60	40	40	40	40	60	
Width (mm)	4	4	4	4	7	7	4	4	4	4	7	
Height (mm)	4	4	4	4	4	4	4	4	4	4	4	
Dimension, ABS type												
Length (mm)	100	100	100	120	140	140	100	100	100	120	140	
Width (mm)	80	80	80	8	114	114	80	80	80	8	114	
Height (mm)	9	9	9	18	18	8	9	9	9	18	8	
Temperature Range (°C)	-40 + 85											

Notes: (1) All measurements were performed at room temperature, at wavelength 1310nm & 1550nm. (2) Coupling losses at the interfaces between the splitter chip and I/O fibres are included.

Ordering Information

PLC	Configuration		Wavelength		Cable Type		Package Style		Input Connectors		Output Connectors		Fibre Type		Lead Length Input		Lead Length Output	
	Code	Ratio	Code	Wavelengths	Code	Dimensions	Code	Dimensions	Code	Options	Code	Options	Code	Options	Code	Options	Code	Options
PLC	102	1 x 3	A	1310nm / 1550nm	0	250µm	A	Case ribbon	A	None	A	None	D	G652D	1	1 metre	1	1 metre
	104	1 x 4	B	1310 / 1490 / 1550nm	1	900µm	B	Fan-out unit	B	E2000/UPC	B	E2000/UPC	A	G657A	2	1.5 metre	2	1.5 metre
	108	1 x 8	C	Broadband 1260-1650nm	2	2mm cable*	C	2&3mm module	C	E2000/APC	C	E2000/APC			3	2 metre	3	2 metre
	116	1 x 16			3	3mm cable*			D	FC/UPC	D	FC/UPC			4	2.5 metre	4	2.5 metre
	132	1 x 32			E	FC/APC			E	FC/APC			5	3 metre	5	3 metre		
	164	1 x 64							F	LC/UPC	F	LC/UPC						
	202	2 x 2							G	LC/APC	G	LC/APC						
	204	2 x 4							H	MU/APC	H	MU/APC						
	208	2 x 8							I	MU/UPC	I	MU/UPC						
	216	2 x 16							J	SC/UPC	J	SC/UPC						
	232	2 x 32							K	SC/APC	K	SC/APC						
	264	2 x 64							L	ST/UPC	L	ST/UPC						

*Splitters requiring 2mm & 3mm cable will be supplied in a plastic module with flying pigtailed. Other lengths available on request.

Example Part Number

PLC	102	A	0	A	A	A	D	1	1
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This part number has created a 1x2, 250µm, Ribbon Fibre Splitter at 1310/1550nm with no connectors, 1m G652D pigtails.