

1xN and 2xN PLC Splitters

V.3.4

Description

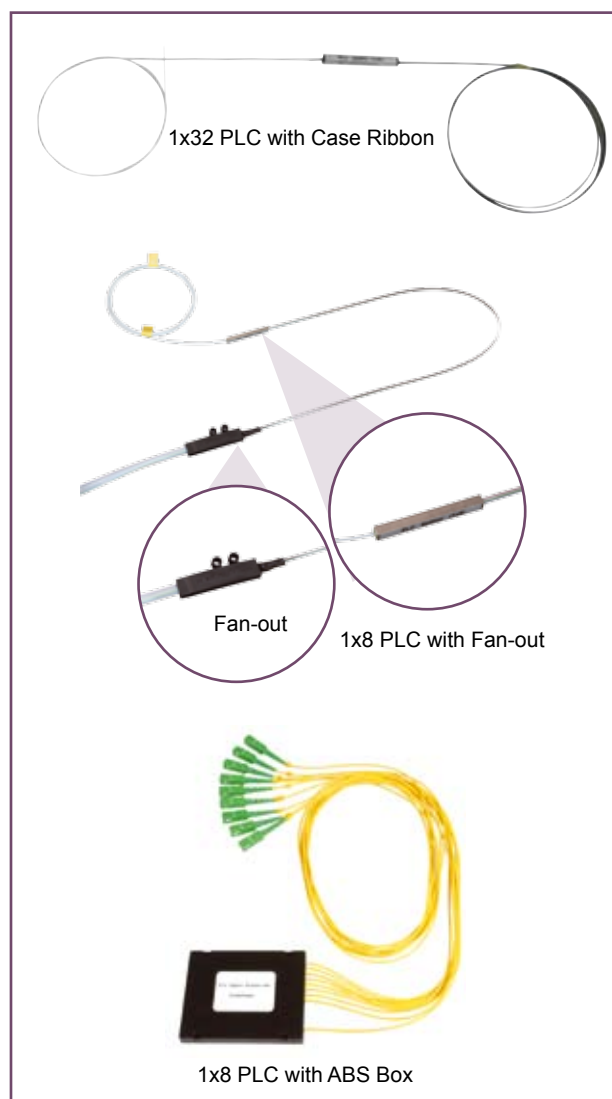
Growth in today's broadband applications demand reliable high performance splitters for use within a variety of environmental conditions and packaging options. A move towards PON's within the FTTX arena calls for a device offering low insertions loss, linear uniformity and low return loss, FibreFab splitters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

Features/Benefits

- ▶ **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**



Technical Specification

Parameters		1x4	1x8	1x16	1x32	1x64	2x4	2x8	2x16	2x32	
Operating Wavelength (nm)		1260~1650									
Insertion Loss without connector (dB) ^(1,2)	Max	7.4	10.7	13.7	17	21	7.8	11.4	14.9	18	
Insertion Loss with connector (dB)	Max	7.9	11.2	14.2	17.5	21.5	8.3	11.9	15.4	18.5	
Loss Uniformity (dB)	Max	0.6	0.9	1.2	1.7	2.5	1.5	1.5	2	2.5	
Polarization Dependent Loss (dB)	Max	0.2	0.3	0.3	0.3	0.4	0.2	0.4	0.4	0.4	
Return Loss (dB)	Min	50									
Directivity (dB)	Min	55									
Fibre Type		G652.D or G657.A									
Fibre Length (m)		1.2(±0.1) or customer specified									
Connector Type		Customer specified									

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.



+44 (0) 870 127 3330



+44 (0) 870 127 3331



sales@fibrefab.com



www.fibrefab.com

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Dimensions

Type	Unit	1x4	1x8	1x16	1x32	1x64	2x4	2x8	2x16	2x32
PLC Splitter with Case Ribbon (LxWxH)	mm		40x4x4		50x7x4	60x12x4	50x4x4		60x7x4	
PLC Splitter with Fan-out	PLC Splitter(LxWxH)	mm	40x4x4		50x7x4	60x12x4	50x4x4		60x7x4	
	Fan-out(LxWxH)	mm	46.3x11x8							
	Fan-out(Qty)	pcs	1	1	2	4	8	1	1	2
PLC Splitter ABS Module(LxWxH)	mm	100x80x9	120x80x18	140x114x18			100x80x9	120x80x18	140x114x18	
ABS Module Position Hole	mm	70x74	80x74	100x106			70x74	80x74	100x106	

Part Number Generator

Type	Configuration	Wavelength	Cable Type	Package Style	Input Connectors	Output Connectors	Fibre Type	Lead length input	Lead length output									
PLC																		
PLC Splitter	102	1x2	A	1310/1550nm	0	250um	A	Case ribbon	A	None	A	None	D	G652D	1	1m	1	1m
	104	1x4	B	1310/1490/1550nm	1	900um	B	Fan-out unit	B	E2000 /UPC	B	E2000 /UPC	A	G657A	15	1.5m	15	1.5m
	108	1x8	C	Broadband 1260-1650nm	2	2mm cable*	C	2&3mm module	C	E2000 /APC	C	E2000 /APC			2	2m	2	2m
	116	1x16			3	3mm cable*	D		D	FC/UPC	D	FC/UPC			25	2.5m	25	2.5m
	132	1x32					E		E	FC/APC	E	FC/APC			3	3m	3	3m
	164	1x64					F		F	LC/UPC	F	LC/UPC						
	202	2x2					G		G	LC/APC	G	LC/APC						
	204	2x4					H		H	MU/APC	H	MU/APC						
	208	2x8					I		I	MU/UPC	I	MU/UPC						
	216	2x16					J		J	SC/UPC	J	SC/UPC						
	232	2x32					K		K	SC/APC	K	SC/APC						
264	2x64					L		L	ST/UPC	L	ST/UPC							

*Splitters requiring 2mm & 3mm cable will be supplied in a plastic module with flying pigtails

*Other lengths available upon request

Example Part Number

PLC 102 A 0 A A A D 1 1

This part number generator has created a:

1x2, 250µm, Ribbon Fibre Splitter at 1310/1550nm with no connectors, 1m G652D pigtails.



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