

Splitter Cable

Optronics have developed a patented splitter solution. The PLC splitter is housed inside a Optronics breakout unit to offer a ruggedized zero U splitter solution for POP, MDU and node applications within but not limited to the access network. The product is versatile, easy to install and can be deployed within a host of cabinets or racks where passive splitting is required.

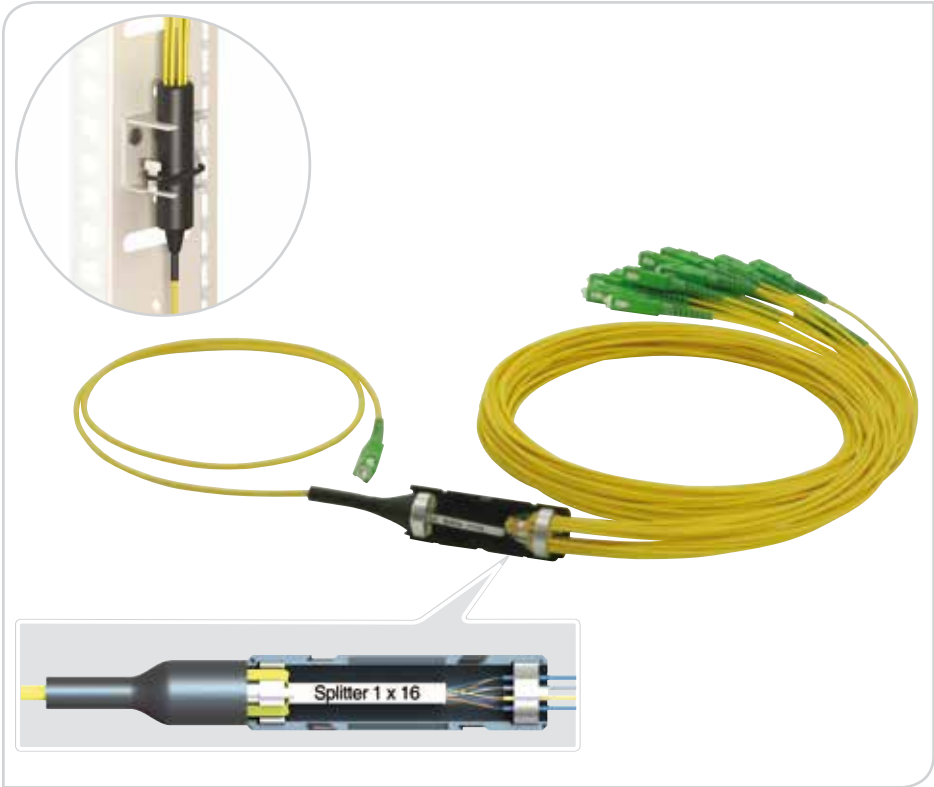
Features/Benefits

- > Zero U
- > Ruggedised
- > Designed to meet Telcordia standards
- > Easy to install

Applications

- > Central office
- > Head end
- > POP
- > MDU
- > Node/Distribution point

Technical Specification



Parameters	PLC Splitter Specification											
	Splitter Type (ABS Type)											
	1x2	1x4	1x8	1x16	1x32	1x64	2x2	2x4	2x8	2x16	2x32	2x64
Operating Wavelength	1260~1650nm											
Insertion Loss (AVE, dB)	4	7.3	10.5	13.8	16.8	20.5	4.4	8	11.7	14.7	17.9	21.2
Insertion Loss (MAX, dB)	4.5	7.7	11.2	14.2	17.5	21.5	4.7	8.3	12	15	18.2	21.9
Return Loss (dB)	55	55	55	55	55	55	55	55	55	55	55	55
PDL (AVE, dB)	0.1	0.1	0.15	0.15	0.15	0.2	0.1	0.1	0.2	0.3	0.3	0.4
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	0.5
Loss Uniformity (AVE, dB)	0.4	0.5	0.6	0.7	0.9	1.3	0.5	1	1	1.2	1.5	2.2
Loss Uniformity (MAX, dB)	0.6	0.8	1	1.4	1.7	2.7	0.8	1.4	1.7	2	2.2	2.7
Directivity (dB)	55	55	55	55	55	55	55	55	55	55	55	55
Operating Temp. (°C)	-40 ~ +85											
Storage Temp. (°C)	-40 ~ +85											
Dimension (L*W*H, mm),	100*80*9	100*80*9	100*80*9	120*8*18	140*114*18	140*114*8	100*80*9	100*80*9	100*80*9	120*8*18	140*114*18	140*114*18

Notes:
(1) All parameters above are tested with APC connectors.
(2) All parameters above are same for G.652D, G.657A1, G.657A2 fibers.

Part Number Generator

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

*Other lengths available upon request

*Other lengths available upon request

Example Part Number

PCC	108	A	2	K	K	D	1	1
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This part number generator has created a:

1x8, 2mm Splitter cable at 1310/1550nm, with SC/A connectors and 1m G652D fibre pigtails

1xN and 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, FibreFab splitters provide excellent specifications as well as complying to and exceeding Telcordia GR-1221-CORE and GR-1209-CORE standards.

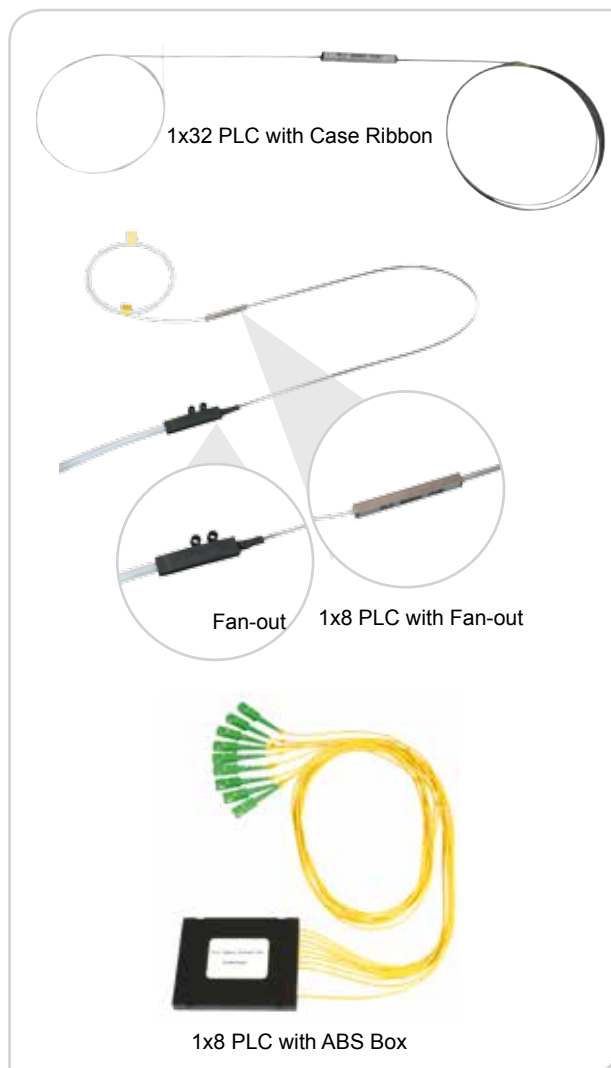
Features/Benefits

- > 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	PLC Splitter Specification											
	Splitter Type (ABS Type)											
	1x2	1x4	1x8	1x16	1x32	1x64	2x2	2x4	2x8	2x16	2x32	2x64
Operating Wavelength	1260~1650nm											
Insertion Loss (AVE, dB)	4	7.3	10.5	13.8	16.8	20.5	4.4	8	11.7	14.7	17.9	21.2
Insertion Loss (MAX, dB)	4.5	7.7	11.2	14.2	17.5	21.5	4.7	8.3	12	15	18.2	21.9
Return Loss (dB)	55	55	55	55	55	55	55	55	55	55	55	55
PDL (AVE, dB)	0.1	0.1	0.15	0.15	0.15	0.2	0.1	0.1	0.2	0.3	0.3	0.4
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	0.5
Loss Uniformity (AVE, dB)	0.4	0.5	0.6	0.7	0.9	1.3	0.5	1	1	1.2	1.5	2.2
Loss Uniformity (MAX, dB)	0.6	0.8	1	1.4	1.7	2.7	0.8	1.4	1.7	2	2.2	2.7
Directivity (dB)	55	55	55	55	55	55	55	55	55	55	55	55
Operating Temp. (°C)	-40 ~ +85											
Storage Temp. (°C)	-40 ~ +85											
Dimension (L*W*H, mm), Component type	60*7*4	60*7*4	60*7*4	60*12*5	80*20*6	100*20*6	60*7*4	60*7*4	60*7*4	80*12*5	100*20*6	N/A
Dimension (L*W*H, mm), ABS type	100*80*9	100*80*9	100*80*9	120*8*18	140*114*18	140*114*8	100*80*9	100*80*9	100*80*9	120*8*18	140*114*18	140*114*18

Notes:

- (1) All parameters above are tested with APC connectors.
- (2) All parameters above are same for G.652D, G.657A1, G.657A2 fibers.

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	FC/UPC	D	FC/UPC			25	2.5m	25	2.5m		
	132	1x32					E	FC/APC	E	FC/APC			3	3m	3	3m		
	164	1x64					F	LC/UPC	F	LC/UPC			*Other lengths available upon request					
	202	2x2					G	LC/APC	G	LC/APC								
	204	2x4					H	MU/APC	H	MU/APC								
	208	2x8					I	MU/UPC	I	MU/UPC								
	216	2x16					J	SC/UPC	J	SC/UPC								
	232	2x32					K	SC/APC	K	SC/APC								
	264	2x64					L	ST/UPC	L	ST/UPC						*Other lengths available upon request		

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

Example Part Number

PLC	102	A	0	A	A	A	D	1	1
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This part number generator has created a:

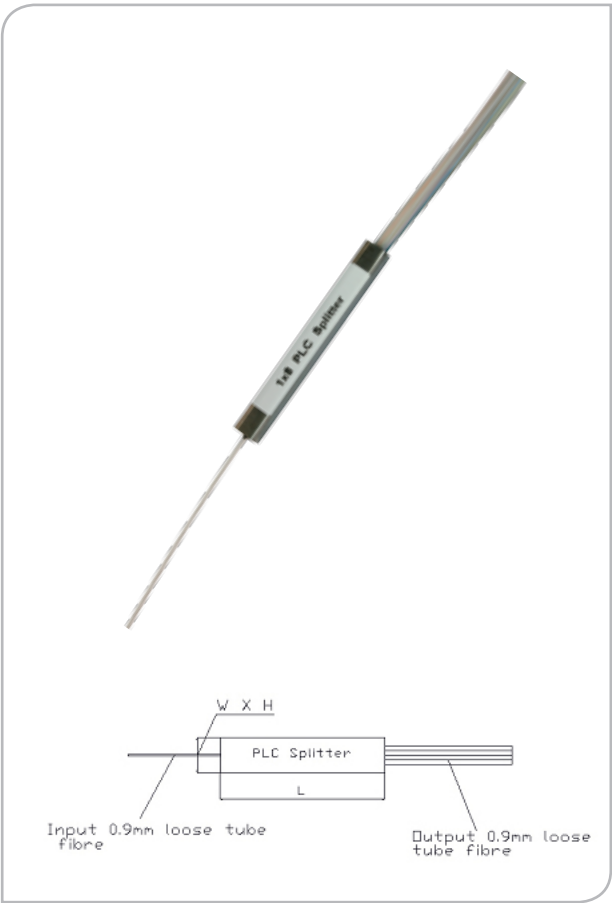
1x2, 250µm, Ribbon Fibre Splitter at 1310/1550nm with no connectors, 1m G652D pigtails.

Compact 900µm PLC Splitter

FibreFab has introduced a range of highly reliable, high performance compact splitters. The compact splitter is specifically design to remove the need for a ribbon fibre to 900µm fibre Fan-Out unit, with the 900µm cable exiting directly from the PLC housing

Features

- > Designed to meet Telcordia standards
- > Compact housing design for small space applications
- > Low IL and PDL
- > Excellent uniformity
- > High specification connectors available



Technical Specification

Parameters	1x2	1x4	1x8	1x16	1x32	2x4	2x8	2x16	2x32
Insertion Loss (MAX, dB)	3.8	7.2	10.5	13.5	16.5	7.5	11.2	14.2	17.4
Loss Uniformity (MAX, dB)	0.4	0.6	0.8	1.2	1.5	1.2	1.5	1.8	2
PDL (MAX, dB)	0.3	0.2	0.3	0.3	0.3	0.2	0.4	0.4	0.4
Return Loss (dB)	55	55	55	55	55	55	55	55	55
Directivity (dB)	55	55	55	55	55	55	55	55	55
Temperature Range (°C)	-40 + 85								
Fibre Type	G652.D or G657.A								
Fibre Length (m)	1.2(±0.1) or customer specified								
Connector Type	Customer specified								
Dimensions (L x W x H, mm)	60x7x4	60x7x4	60x7x4	60x12x5	80x20x6	60x7x4	60x7x4	80x12x5	100x20x6

- 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.

Part Number Generator

Type	Configuration		Wavelength		Cable Type		Input Connectors		Output Connectors		Fibre Type	Lead Length Input		Lead Length Output		
PCS																
PLC Compact Splitter	102	1x2	A	1310/1550nm	1	900um	A	None	A	None	D A	G652D G657A	1	1m	1	1m
	104	1x4	B	1310/1490/1550nm			B	E2000 /UPC	B	E2000 /UPC			15	1.5m	15	1.5m
	108	1x8	C	Broadband 1260-50nm			C	E2000 /APC	C	E2000 /APC			2	2m	2	2m
	116	1x16					D	FC/UPC	D	FC/UPC			25	2.5m	25	2.5m
	132	1x32					E	FC/APC	E	FC/APC			3	3m	3	3m
	202	2x2					F	LC/UPC	F	LC/UPC			*Other lengths available upon request		*Other lengths available upon request	
	204	2x4					G	LC/APC	G	LC/APC						
	208	2x8					H	MU/APC	H	MU/APC						
	216	2x16					I	MU/UPC	I	MU/UPC						
	232	2x32					J	SC/UPC	J	SC/UPC						
							K	SC-APC	K	SC-APC						
							L	ST/UPC	L	ST/UPC						

Example Part Number

PCS	102	A	1	A	A	D	1	1
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This part number generator has created a:

1X2 PLC Splitter with 900µm cable and no connectors using G652D fibre at 1310 & 1550 with 1m pigtail.

1xN and 2xN PLC Splitter Modules

FibreFab has introduced a range of high performance splitters loaded into a variety of management products to include 19" rack mounted panels and LGX modules. A move toward 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 on all of the above as well as complying to and exceeding Telcordia GR-1221-CORE and GR-1209-CORE standards.

Features/Benefits

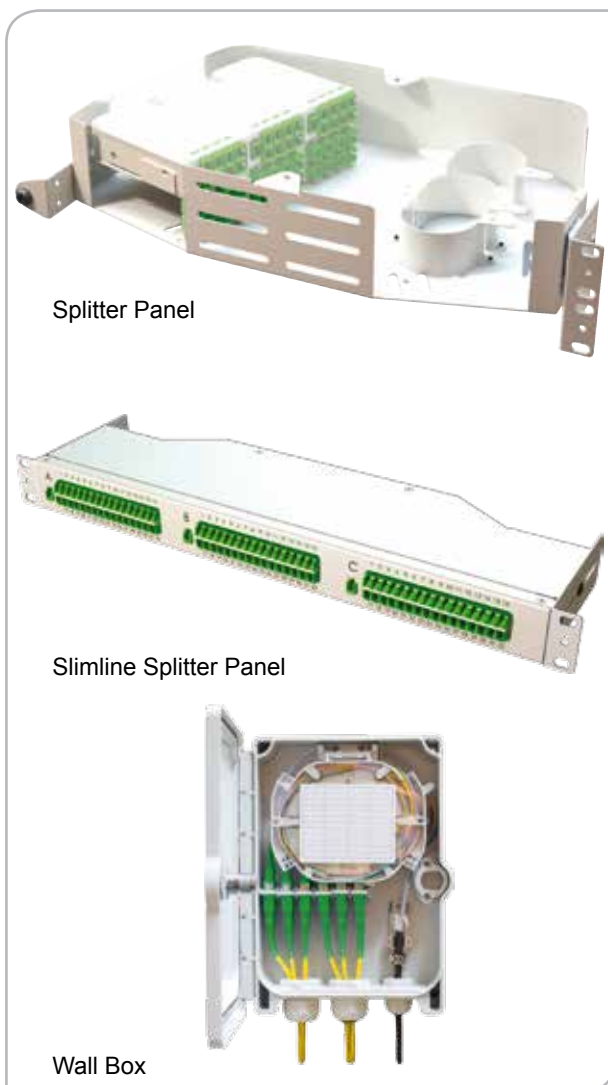
- > Designed to meet Telcordia standards
- > Non-standard housing options available
- > Low IL and PDL
- > Excellent uniformity
- > Range of packaging options available
- > High specification connectors available

Applications

- > Central Office
- > Headend
- > POP
- > MDU
- > Mode/Distribution point



LGX available on request



Splitter Panel

Slimline Splitter Panel

Wall Box

Technical Specification

Parameters	PLC Splitter Specification Splitter Type (ABS Type)											
	1x2	1x4	1x8	1x16	1x32	1x64	2x2	2x4	2x8	2x16	2x32	2x64
Operating Wavelength	1260~1650nm											
Insertion Loss (AVE, dB)	4	7.3	10.5	13.8	16.8	20.5	4.4	8	11.7	14.7	17.9	21.2
Insertion Loss (MAX, dB)	4.5	7.7	11.2	14.2	17.5	21.5	4.7	8.3	12	15	18.2	21.9
Return Loss (dB)	55	55	55	55	55	55	55	55	55	55	55	55
PDL (AVE, dB)	0.1	0.1	0.15	0.15	0.15	0.2	0.1	0.1	0.2	0.3	0.3	0.4
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	0.5
Loss Uniformity (AVE, dB)	0.4	0.5	0.6	0.7	0.9	1.3	0.5	1	1	1.2	1.5	2.2
Loss Uniformity (MAX, dB)	0.6	0.8	1	1.4	1.7	2.7	0.8	1.4	1.7	2	2.2	2.7
Directivity (dB)	55	55	55	55	55	55	55	55	55	55	55	55
Operating Temp. (°C)	-40 ~ +85											
Storage Temp. (°C)	-40 ~ +85											

Notes:

- (1) All parameters above are tested with APC connectors.
- (2) All parameters above are same for G.652D, G.657A1, G.657A2 fibers.

Part Number Generator

Type	Configuration		Wavelength	Package Style		Input Connectors	Output Connectors	Fibre Type	
PSM									
PLC Splitter Module	102	1x2	A 1310/1550nm	A	1U 19" fixed	A None	A None	D	G652D
	104	1x4	B 1310/1490/1550nm	B	2U 19" fixed	B E2000/UPC	B E2000/UPC	A	G657A
	108	1x8	C Broadband 1260-1625nm	C	3U 19" fixed	C E2000/APC	C E2000/APC		
	116	1x16		D	1U 19" sliding	D FC/UPC	D FC/UPC		
	132	1x32		E	2U 19" sliding	E FC/APC	E FC/APC		
	164	1x64		F	3U 19" sliding	F LC/UPC	F LC/UPC		
	202	2x2		G	1U LGX	G LC/APC	G LC/APC		
	204	2x4		H	2U LGX	H MU/APC	H MU/APC		
	208	2x8		I	3U LGX	I MU/UPC	I MU/UPC		
	216	2x16		J	1U pivot	J SC/UPC	J SC/UPC		
	232	2x32				K SC/APC	K SC/APC		
	264	2x64				L ST/UPC	L ST/UPC		

Example Part Number

PSM 1x16 A A G G D

This part number generator has created a:

1x16, 1U 19" fixed panel with LC/APC connectors, using G652D fibre