

Type:	FPLC Gold splitters family	18.07.2016
		REV: 1.1
		MD
Product number:	FPLC-, cf. reference system at the bottom	

FPLC optical splitters, GOLD series



INTRODUCTION:

Fibrain FPLC optical splitters divide (split) optical power transmitted in the fiber link into a number of output ports. Thanks to capabilities of the planar technology, FPLC splitters offer very large port counts in compact housings. Fibrain FPLC 1x2N splitters are available with output port counts ranging from 1x2 up to 1x64. Fibrain FPLC splitters guarantee very good insertion loss stability in the whole 1260-1650 nm spectral range, as well as excellent thermal stability, being fully qualified to work in the outdoor -40/+85 °C temperature range. An important advantage from the network design point of view (as well as the subsequent ease of operation and maintenance) is an exceptional loss uniformity offered by the FPLC Gold-series splitters. Fibrain FPLC splitters are available in versions without connectors, as well as with any type of optical fiber connectors, including the E2000 connectors.

APPLICATIONS:

FTTC/H access optical networks HFC and cable networks Other optical telecommunication networks

FEATURES AND ADVANTAGES:

1260-1650 nm spectra range
-40/+85 °C temperature working range
Very low insertion loss
Very good loss uniformity
G.657.A2, reduced bending radius fiber
Available housings: minibox SUS, ABS blackbox
Output cables: ribbon, 900 µm tube, 2.0 mm cable with customized length
Available with any fiber connector type



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TECHNICAL SPECIFICATION:

1x2N SERIES:

Davameter	Unit		Domorko					
Parameter	Unit	1x2	1x4	1x8	1x16	1x32	1x64	Remarks
Max. insertion loss ¹	dB	3.6	6.9	10.0	13.3	16.5	20.1	w/o conns
Max. loss uniformity ²	dB	0.25	0.25			1.50	w/o conns	
Max. PDL	dB	0.20	0.20	0.20	0.20	0.30	0.30	
Min. reflection loss	dB			55				
Min. directivity	dB			55				
Spectral working range	nm		1260-1650					
Temperature working range	°C		-40/+85					
Fiber type				G.657	.A2			Customized

1x3N SERIES:

Parameter	Unit		Remarks					
Parameter	Unit	1x3	1x6	1x12	1x24	Remarks		
Max. insertion loss ¹	dB	6.2	9.3	12.2	16.0	w/o conns		
Max. loss uniformity ²	dB	0.45	0.45 0.60 0.80 1.00					
Max. PDL	dB	0.20	0.20	0.20	0.30			
Min. reflection loss	dB			55				
Min. directivity	dB			55				
Spectral working range	nm		1260-1650					
Temperature working range	°C		-40/+85					
Fiber type			G.	657.A2		Customized		

2x2N SERIES:

Parameter	Unit		Remarks					
raidilleter	Ollit	2x2	2x4	2x8	2x16	2x32	2x64	Remarks
Max. insertion loss ¹	dB	4.3	7.6	11.0	14.3	17.5	21.5	w/o conns
Max. loss uniformity ²	dB	0.8	1.0	1.2	1.7	1.9	2.5	w/o conns
Max. PDL	dB	0.2	0.2	0.2	0.2	0.3	0.3	
Min. reflection loss	dB			55				
Min. directivity	dB			55				
Spectral working range	nm			1260-1	650			
Temperature working range	°C		-40/+85					
Fiber type	·			G.657	.A2	•		Customized

¹ Additional insertion loss for splitters with connectors: +0.4 dB ² Loss uniformity increased by 0.1 dB for splitters with connectors



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AVAILABLE HOUSINGS:

1x2N SERIES:

Output type	Housing type	Housing size							
Output type	Housing type	1x2	1x4	1x8	1x16	1x32	1x64		
Ribbon	Minibox SUS, blockless	55x7x4	55x7x4	55x7x4	55x7x4	60x12x4	80x20x6		
Tube 900 µm	Minibox SUS, blockless	55x7x4	55x7x4	55x7x4	60x12x4	80x20x6	100x40x6		
Cable 2.0 mm	ABS Blackbox	100X80x10	100X80x10	100X80x10	100X80x10	120x80x18	120x80x18		

1x3N SERIS:

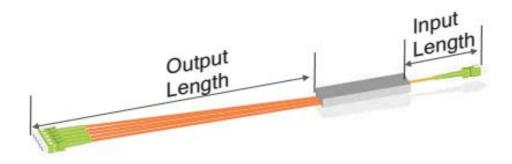
Output type	Hausing type	Housing size							
	Housing type	1x3	1x6	1x12	1x24				
Ribbon	Minibox SUS, blockless	55x7x4	55x7x4	55x7x4	60x12x4				
Tube 900 μm	Minibox SUS, blockless	55x7x4	55x7x4	60x12x4	80x20x6				
Cable 2.0 mm	ABS Blackbox	100X80x10	100X80x10	100X80x10	120X80x18				

2x2N SERIES:

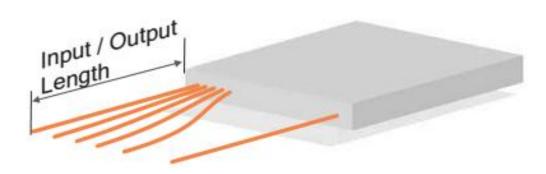
Output type	Housing type	Housing size							
Output type	Housing type	2x2	2x4	2x8	2x16	2x32	2x64		
Ribbon	Minibox SUS, blockless	55x7x4	55x7x4	55x7x4	55x7x4	60x12x4	80x20x6		
Tube 900 μm	Minibox SUS, blockless	55x7x4	55x7x4	55x7x4	60x12x4	80x20x6	100x40x6		
Cable 2.0 mm	ABS Blackbox	100X80x10	100X80x10	100X80x10	100X80x10	120x80x18	120x80x18		

HOUSING SCHEMATIC VIEW:

SUS minibox:



ABS blackbox:





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REFERENCE SYSTEM:

Cat.	Finish	Fiber type	Split	Input fiber	Input length	Output fiber	Output length	Housing	Input connector	Output connectors
FPLC	GE	2 – G.657A2	12 – 1x2	20 – 2.0 mm	0 – 0.5 m	1 – ribbon 250 um	x0 – 0.5 m	2 – 55x7x4 mm	ST	ST
			14 – 1x4	25 – 250 um	1 – 1.0 m	2 – tube 900 um	x1 – 1.0 m	3 – 60x12x4 mm	SC	SC
			18 – 1x8	90 – 900 um	2 – 2.0 m	3 – cable 2.0 mm	x2 – 2.0 m	4 – 80x20x6 mm	SCA	SCA
			116 – 1x16					5 – 100x40x6 mm	FC	FC
			132 – 1x32					7 – 100x80x10 mm	FCA	FCA
			164 – 1x64					8 – 120x80x18 mm	LC	LC
			13 – 1x3						LCA	LCA
			16 – 1x6						E20	E20
			112 – 1x12						E2A	E2A
			124 – 1x24						XX – n/c	XX – n/c
			22 – 2x2							
			24 – 2x4							
			28 – 2x8							
			216 – 2x16							
			232 – 2x32							
			264 – 2x64							

Ordering example: FPLC-GE-2-13-20-1-3-X1-7-SCA-SCA – PLC 1x3 splitter, GOLD finish, 2.0 mm 1 m input and output cables, G.657A2 fiber, ABS blackbox 100x80x10 mm housing, SC/APC input and output connectors

Buyer and/or user of this product has to make sure before using this product that it is suitable for the intended use. All questions of liability relating to this product are subject – in accordance with the prevailing – to the Terms of Sales of the selling Fibrain subsidiary.