

SFT-P series

1xN Planar Optical Splitter

Description:

The **SFT-P** 1xN Planar Lightwave Circuits (PLC) Optical Splitters are high performance, reliable and compact devices for splitting optical power, specifically designed to meet the tough requirements of FTTH, PON and CATV networks. Based on unique waveguide technology of Ion-Exchange in glass, such splitters exhibit very low insertion loss and PDL, great channel uniformity and a wide wavelength operative range.

The **SFT-P** 1xN PLC Optical Splitters are available in 1x4, 1x8, 1x16, 1x32, 1x64 and custom configurations, and comply with Telcordia GR-1209, GR-1221, IEC 67153-031-3/-6 and IEC 60304 requirements. Various packaging types, input and output fibers are available according to the customer demand.



SFT-P-01x16-BFS-NC-NC

Features:

- Very low insertion loss
- Ultra wide bandwidth (1250-1650 nm)
- Polarization independent
- Excellent channel uniformity
- Compact size
- Wide range of packaging

Specifications:

Configuration	1 x 2	1 x 4	1 x 8	1 x 16	1 x 32	1 x 64
Maximum Insertion Loss ¹ (dB)	3.8	7.0	10.3	13.5	16.7	20.3
Uniformity (dB)	≤ 0.6	≤ 0.6	≤ 0.8	≤ 1.1	≤ 1.5	≤ 2.0
Operating Wavelength (nm)	1260-1650					
Maximum PDL (dB)	≤ 0.2			≤ 0.3		≤ 0.4
Return Loss (dB)	≥ 55					
Directivity (dB)	≥ 55					
Operating Temperature (°C)	-40 to +85					
Storage Temperature (°C)	-40 to +85					
Relative humidity	up to 95%					
Fiber Type	G.657A					
Dimensions (mm) BFS, BFF PON	40x4x4			50x7x4	60x12x4	
	40x4x4	60x7x4	60x12x4	80x20x6	100x40x6	
Fiber Type:	BFS type	IN: Bare Fiber 250 μm / OUT: Bare Ribbon				
	PON type	IN: Tight Buffer 900 μm / OUT: Tight Buffer 900 μm				
Fiber length ² (m)	1.5±0.2 m					
Standards	IEC 67153-031-3/-6, IEC 60304 Telcordia GR-1209-CORE & Telcordia GR-1221-CORE, UL94-V0, RoHS compliant					

Note: 1) Without connectors, room temperature

2) Other length on demand

Application:

- Passive Optical Networks (PON)
- Network expansion
- CATV networks
- OADM and ROADM

Ordering Code:

SFT-P - 01 x XX - XXX - XX-XX

Planar splitter	Package option I BFS IN 0.25 mm fiber / OUT ribbon fiber PON IN / OUT 0.9 mm fiber Package option II³⁺⁴ FM3/CM3⁵ Metal box 100x80x10 mm, fiber/cable type, up to 1:4 ratio FM4/CM4⁵ Metal box 140x110x10 mm, fiber/cable type, up to 1:8 ratio FM5/CM5⁵ Metal box 140x110x20 mm, fiber/cable type, up to 1:32 ratio CP4/FP4 ABS box 100x80x10 mm, fiber/cable Ø 2 mm, up to 1:8 splitting ratio CP41/FP41 ABS box 120x80x18 mm, fiber/cable Ø 2 mm, up to 1:32 splitting ratio CP5/FP5 ABS box 140x115x18 mm, fiber/cable Ø 2 mm, up to 1:64 splitting ratio CAPM Splitter in CAPM cassette (see datasheet CMS_22-01_EN-CAPM.pdf) XXX ZMPJ, TMVJ, MCNP, ... rack mount ODF	NC-NC No input and output connectors XX-XX Connector type: Can be defined according to datasheet CON_13-01 (Ordering code for Pigtails and Jumpers)
Splitting ratio (# of ports) 01 x 02 01 x 04 01 x 08 01 x 16 01 x 32 01 x 64		

Note: 3) Installation into 1-2 RU Optical Distribution Frame (ODF) on request:

XXX: Part number of relevant ODF

4) Fiber type: 0.9 mm, cable type: 2.0 mm

5) Standard length of cables with connectors: 1m

Ribbon fiber colors: (IEC 60304)	1	2	3	4	5	6	7	8
	Red	Green	Blue	Yellow	White	Grey	Brown	Violet

Packaging variants:



SFT-P-01x32-BFS-NC-NC



SFT-P-01x04-PON-NLC-NLC



SFT-P-01x16-CM5-NSC-NSC



SFT-P-01x32-ZMPJ-NSC-NSC

Typical configuration:

SFT-P-01x16-BFS-NC-NC	1x16 splitter in basic packaging 40x4x4 mm, IN-0.25 mm, OUT-ribbon fiber, no connectors
SFT-P-01x08-PON-NLC-NLC	1x8 splitter PON type, IN/OUT fiber 0.9 mm, LC/APC connectors
SFT-P-01x08-CP4-NLC-NLC	1x8 splitter, ABS box, IN/OUT cable 2 mm, LC/APC connectors
SFT-P-01x32-ZMPJ-NSC-NSC	1x32 splitter in 1 RU unit (ZMPJ optical distribution frame), QLC/APC connectors - adapters