

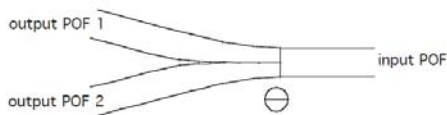
SFT-POF-01x02

Plastic Optical Fiber (POF) Splitter

Description:

Assembled from two branches of partially polished standard POF (1 mm POF, NA =0.5) this optical power splitter component splits up the light of the input POF to two equal portions (50:50 symmetry) in the output branches. 2.2 mm outside diameter ferrules terminate the input and output ports. Coupling elements for the connection with standard POF cables are available.

For special applications a thin metal layer is deposited in the polished parts to increase the cross talk between both output branches. These low cross talk splitters are useful in sensor applications and data transmission systems that use one fiber only for bidirectional, full duplex operation.



Specifications:

type	splitting ratio (%) typical	excess loss (dB)			cross talk (dB) typical
		min.	typ.	max.	
standard splitter	50 : 50 ($\pm 20\%$)	0.6	1.3	2.5	22
low cross talk splitter	50 : 50 ($\pm 20\%$)	0.8	1.2	1.5	50
standard splitter	10 : 90 ($\pm 20\%$)	0.6	1.3	2.5	22
low cross talk splitter	10 : 90 ($\pm 20\%$)	0.8	1.2	1.5	50

Customer specific modifications are feasible:

- unsymmetric splitters comprising an unsymmetry up to 75:25 splitting ratio,
- extension of the output fiber length up to 50 cm,
- bidirectional system test splitter modules.

Ordering Code:

SFT - POF - 01 x 02 - XX - XX - XX - XX-XX

Cable type

09	0.9 POF Cable
10	1.0 POF Cable
12	1.2 POF Cable
20	2.0 POF Cable

Connectors

NC	no connector
SC	SC-POF
FC	FC-POF
ST	ST-POF

Note: standard fiber/cable length = 25 cm
* splitting ratio \pm 20% typical

Coupling ratio

50*	50/50
10*	10/90

Package option

PFS	POF fiber, standard tube
CM1	metal box 100x15x9 mm

Packaging variants:



SFT-POF-01x02-20-10-BFS-NC-NC



SFT-POF-01x02-20-50-CM1-NC-NC