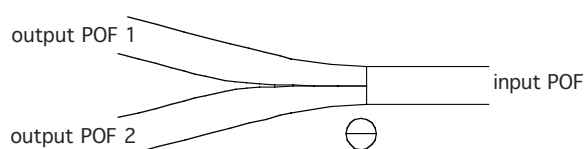


# 1 mm polymer optical fiber (POF) splitter

## Description:

Assembled from two branches of partially polished standard POF (1mm 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. 2.2mm 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 for bidirectional, full duplex operation.



## Technical Data 50:50 symmetry splitter:

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

*Selected components are available on request.*

## Customer specific modifications are feasible:

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

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