1x2 V-pin POF splitter for 1 mm polymer fiber

Description:

The splitter is fabricated from two branches standard POF cable (1mm POF, NA = 0.5, 2.2mm jacket). The splitter input uses a V-pin connector adapter for connection with a V-pin connector equipped POF cable. The splitter output fiber branches are connected to 2.2mm POF cables via supplied alignment ferrules. On request alternative fiber connectors are attached to the splitter arms.

The 1x2 POF splitter splits the light of the splitter input POF to two equal portions (50:50 symmetry) in the output branches. The splitter shows standard crosstalk in the order of 27dB. If crosstalk suppression is an aspect in system design, this splitter type is not recommended. On the other hand, the splitter is advantageous when long splitter arms at the output and a low excess loss are required in a system with V-pin connectors.

Technical Data 50:50 symmetry splitter:

type	splitting ratio (%) typical	excess loss (dB) min.	typ.	max.	cross talk (dB) typical*
1x2 V-pin POF splitter	50 : 50 (± 10%)	3.8	4.9	6.8	27

*The cross talk figure depends critically on the end face quality of the connected POF cable.

Customer specific modifications are feasible:

- assembly of various fiber connectors on output splitter branches like V-pin, FSMA, SC, SMI, ST
- length extension of the output fiber up to 10m

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