Singlemode Tree Coupler

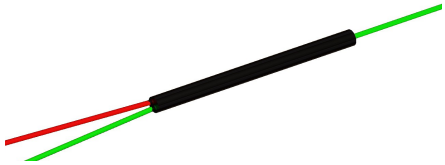
Data Sheet

Features

These low-loss bidirectional fiber-optic tree couplers are based on graded-index (GRIN) lenses. They are specially designed for use in both the 1300 nm and the 1550 nm window and are available in housings which can be mounted in standard splicing enclosures.

Applications

- telecommunication (fiber to the home)
- CATV
- traffic management systems
- measuring and test equipments
- industrial and medical sensor application



Specifications

number of ports	1 x 2 *	1 x 4	1 x 8	1 x 16	1 x 32
Optics					
- fiber type	Singlemode				
- mode field diameter	9/125/250/900 µm				
- wavelength range	1260 nm - 1360 and 1480 nm - 1590 nm				
- typical insertion loss (IL)	3.5 dB	7.0 dB	10.5 dB	14.5 dB	18 dB
- typical return loss (RL)	>60 dB	>55 dB	>55 dB	>55 dB	>55 dB
- typical directivity	>60 dB	>60 dB	>60 dB	>60 dB	>60 dB
- polarization dependence	0.04 dB (peak - peak)				
Mechanics					
- standard pigtail type	bare fiber / 0.9 mm loose tube / 2.7 mm cable				
- standard pigtail length	2 m (in- and output ports)				
- operating temperature	- 20°C to 85°C				
- storage temperature	- 30°C to 90°C				
- housings (ref to data sheet)	A40 / B701 / splicing enclosure				
- without connector	available on custom specific demand				

* different splitting ratios are available from 50% : 50% up to 90% : 10% in steps of 10%
- special tree couplers are available on custom specific demand

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XENLUX AG
Fadenbrücke 10
CH – 6374 Buochs
Switzerland

T: +41 41 620 77 44
F: +41 41 620 77 75
www.xenlux.com
xenmail@xenlux.com

LUX 910.0042.0.0008 DE