Technical Information

FTTx-Reflector 1650nm

Overview

The lilix FTTx reflector for 1650 nm reflects all wavelengths from 1645 nm to 1700 nm. With its low insertion loss at the transmission wavelength range and high reflectance at the reflected wavelength range it is the ideal optical termination for link monitoring of FTTx networks via OTDR (optical time domain reflectometer) measurements at 1650 nm. FTTx reflectors are suitable for both point to point (PTP) and point to multipoint (PTMP) networks. They are preferably installed at the subscriber's homes in order to highlight these positions in the OTDR trace by distinct reflexions of the test signal.

Main Features

- High and homogenous reflectivity over the whole reflected wavelength range
- Low insertion loss and high return loss over the whole transmission wavelength range
- High power resistance

General specifications

- Terminating connector (only for SC, LC or LSH connector standard)
- Pigtail or patch cord with integrated reflector
- Attenuator style (only for SC standard)

Optical parameters

Parameter	Value		
	min.	typ.	max.
Transmission wavelength range [nm]	1260 - 1618		
Reflected wavelength range [nm]	1645 - 1700		
Insertion loss transmission wavelength range [dB](1)			0,5
Reflectivity for reflected wavelength range [%]	90		95
Return loss for transmission wavelength range [dB]		26	30
Polarization Dependent Loss (PDL) [dB]			0,15
Power stability [mW]	300	500	
Working temperature range [°C](2)	-25		85

(1) without connectors (2) depending from pigtail type and style

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