

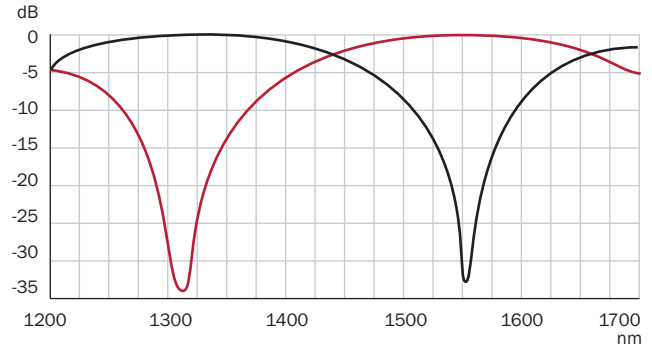
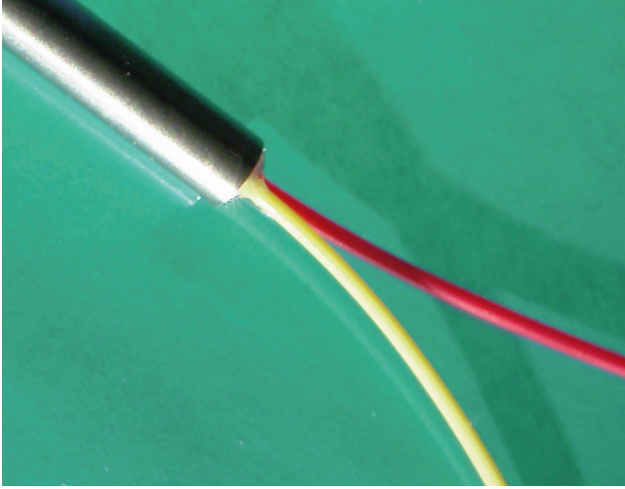


For a complete overview of components visit our website at www.foc-fo.com.

Components ▶ Couplers ▶ Singlemode Couplers (SM)
▶ Wavelength-selective Couplers (WWDWM) ▶

Singlemode Coupler WWDWM

For application at 1310 nm and 1550 nm



Wavelength dependence of WWDWM with central wavelengths 1310 nm and 1550 nm

Wavelength Division Multiplexers or Demultiplexers (WDM) combine or separate optical signals with different wavelengths. They are passive optical components for uni- or bidirectional operation.

WWDWMs are manufactured using the Fused Biconical Taper technology (FTB) and are pure fiber-optic components. WWDWMs are multiplexers or demultiplexers for separating or combining signals whose wavelengths are in different optical windows.

Features

- Low insertion loss and low excess loss
- Multiplexing and demultiplexing of 1310 nm and 1550 nm
- High return loss, i.e. no reflection-related interference with the transmitter for analogue systems
- High thermal, mechanical and environmental stability to meet the requirements of Telcordia GR-1209 and GR-1221
- Option of manufacture to customer specifications

Applications

- Public and private fibre-optic networks
- Measurement systems and test equipment
- Optical transmissions and monitoring systems

Designs

- Supplied in various housing sizes with primary coated fibres, with buffered tube pigtails or reinforced cable pigtails
- WWDWMs are also available as coupling modules with different isolation levels
- All connector standard types are available

For check lists and additional ordering information for our products visit our website or see separate data sheets.



Optical parameter

Type	Narrowband - WDM				Wideband - WDM			
Standard WWDM 1310/1550								
Wavelength Range [nm]	1310/ 1550 ±20				1310/ 1550 ±40			
Possible form factors	size 02, size 03, size 04, size 05, size 06							
Min. Isolation [dB]	15				10			
Max. Insertion Loss [dB]	0,7				0,8			
Min. Directivity [dB]	55 for 1x2, 60 for 2x2							
Min. Return Loss [dB]	55 for 1x2, 60 for 2x2							
Polarisation Dependent Loss ^(1,2) [dB]	typical 0,1							
WWDM 1310/1550 modules								
Wavelength Range [nm]	1310/ 1550 ±20				1310/ 1550 ±40			
Possible form factors	size 10 and above							
Min. Isolation [dB]	15	30	40	50	10	18	25	30
Max. Insertion Loss [dB]	0,8	1,5	2,0	2,5	1,0	1,7	2,4	3,1
Min. Directivity [dB]	55							
Min. Return Loss [dB]	55							
Polarisation Dependent Loss ^(1,2) [dB]	typical 0,1							

⁽¹⁾ of Insertion Loss, max. 0,2dB ⁽²⁾ measured at 1310 nm and 1550 nm

