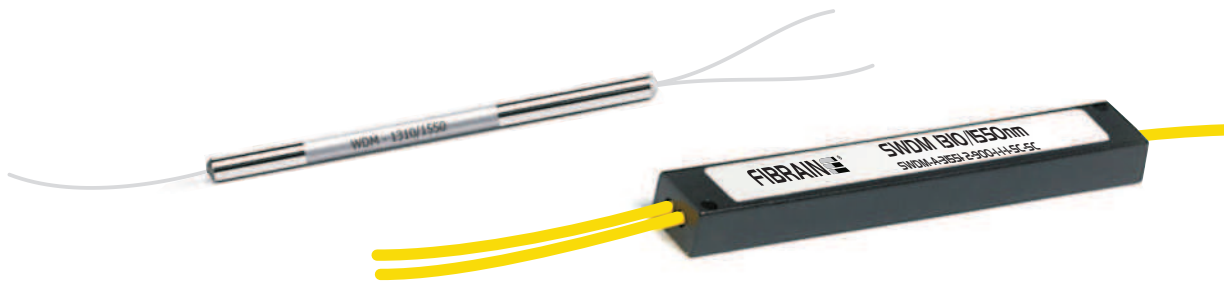


# Optical Elements - WDM

## SWDM multiplexers WDM (Fused Biconical Tapering)

02



### SWDM multiplexers WDM

Fibrain SWDM series multiplexers are manufactured in the FBT technology (Fused Biconical Tapering). These devices are characterized by low insertion loss, high reflection loss and small sensitivity to external conditions. They are the enablers to build networks utilizing the wide WDM technology, where different signals are transferred over the same fiber at different wavelengths.

#### Applications:

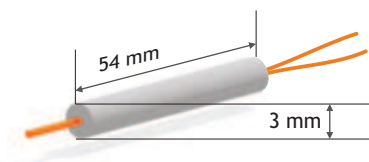
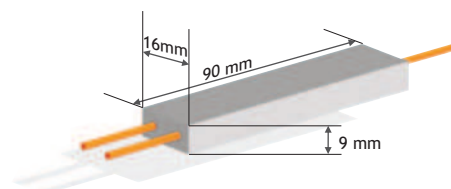
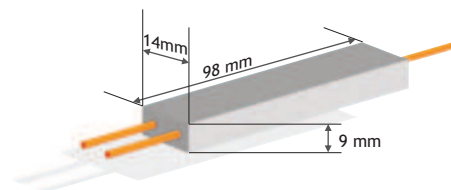
- WDM systems,
- telecommunication networks,
- CATV networks,
- optical amplifiers,
- measuring equipment.

#### Features:

- high thermal stability of parameters,
- low insertion loss and polarization loss,
- high channel isolation.

Technical specification:					
Type	1310/1550		980/1550		
Wavelength	1310 nm & 1550 nm		980 nm & 1550 nm		
Bandwidth	+/-15nm		970-990 nm / 1530-1570 nm		
Type	A	P	A	P	U
Attenuation [dB]	0.3	0.2	0.05	0.15	0.25
Isolation [dB]	>=16	>=17	>=18	>=20	>=20
PDL [dB]	0.1	0.05	0.1	0.05	0.05
Directivity	>=55 dB				
Temperature stability	0.002 dB/°C				
Operating temperature	-40°C to +85°C				
Fiber type	SM 09/125 G.652D		Corning HI 1060 Flex or OFS BF05635-02		

Casing:			
Fiber	250 µm	900 µm	900 µm, 2.0 mm or 3.0 mm
Dimensions	Ø 54*3 mm	Ø 54*3 mm	98x14x9 mm lub 90x16x9 mm



**Quality:**  
S0/S1  
G0/G1  
T0/T1  
P0/P1

**Split:**  
12 - 1x2

**Wavelength:**  
3155 - 1310/1550  
9855 - 980/1550  
4855 - 1480/1550  
xxxx - other

**Casing type:**  
1 - 3x54 mm pipe  
2 - 3x60 mm pipe  
3 - 98x14x9 mm minibox  
4 - 90x19x9 mm minibox  
5 - patchcord Y, 10x60 mm  
x - other

SWDM - G0 - 1 - 12 - 1 - 3155 - 90 - 1 - SC - SC

<b>Fiber:</b> 1 - G652D 2 - G657A 7 - HI 1060	<b>Length:</b> 0 - 0.5 m 1 - 1 m 2 - 2 m	<b>Fiber type:</b> 25 - 250 µm 90 - 900 µm 20 - 2.0 mm 30 - 3.0 mm	<b>Connector type:</b> ST SC SCA FC FCA LC LCA E20 E2A x - other	<b>Connector type:</b> ST SC SCA FC FCA LC LCA E20 E2A x - other
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### SWDM-G0-1-12-1-3155-25-1-SC-SC

**Example:** Fibrain SWDM series multiplexer, 1310/1550 output ports, 1x2 port configuration, 900 µm pigtails, Ø 54x3 mm pipe packaging, SC/SC connectors.