

# Fused Biconic WDM Coupler

980/1550nm and 1480/1550nm WDM are widely used in EDFA, Which can combine the pump power and optical signal into the Er-fiber.

1310/1550 WDM can be used to combine or split 1310nm and 1550nm optical signals, which double the fiber transmission capability and ensure bi-direction communication in a single fiber.



## Features

- ❖ Low insertion loss
- ❖ High isolation
- ❖ Compact size
- ❖ High stability and reliability

## Application

- ❖ Network Monitoring
- ❖ Optical Fiber Sensors
- ❖ CATV / FTTH / EDFA

## Performance Specifications

Parameters		980/1550		1310/1550		1480/1550	
Operating Wavelength(nm)		980 & 1550		1310 & 1550		1480 & 1550	
Operating Bandwidth(nm)		+/-10/20		+/-15		+/-5	
Fiber	Common port & Pump port	Corning Hi1060flex or OFS BF05635-02		SMF-28e			
	Signal port						
Grade		P	A	P	A	P	A
Insertion Loss(dB)		≤0.15	≤0.25	≤0.2	≤0.3	≤0.3	≤0.35
Isolation(dB)		≥20	≥18	≥17	≥16	≥15	≥14
PDL(dB)		≤0.05	≤0.1	≤0.05	≤0.1	≤0.1	≤0.1
Return Loss(dB)		≥50					
Directivity(dB)		≥50					
Operating Temperature(°C)		-40~+85					
Storage Temperature(°C)		-40~+85					

\*Notes: 1.Insertion Loss tested without connector.

2.Other specifications can be made on customer request.

## Package Information

Configuration	1x2 or 2x2		
Fiber Length	1m , or others on request		
Pigtail Type	250um bare fiber	900um loose tube	900um/2mm/3mm loose tube
Dimensinons(mm)	∅3.0xL54	∅3.0xL54	L90xW20xH10

Other package dimensions can be made on customer request.

## Dimensions(Unit:mm)

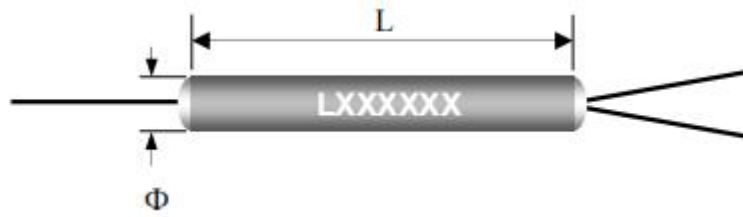
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## Order information:

FBW (Fused WDM) PN: FBW-XXXXXXX-XX (FBW+7 Code+2 Serial Number)

FBW	X	XX	X	X	X	X	XX					
	Channel	Center	Package Type	Fiber Jacket	Fiber Length	Connector						
1	1×1	13	1060/1310	0	Non Package	0	250um Bare Fiber	0	0.5m	0	none	SN
		24	1310/1490	1	φ 3X54	1	0.9mm Loose Tube	1	1.0m	1	SC/UPC	
		35	1310/1550	2	φ 4X64	2	2.0mm Loose Tube	2	1.5m	2	SC/APC	
		56	1550/1620	3	φ 3X60	3	3.0mm Loose Tube	3	2.0m	3	FC/UPC	
		85	1480/1550	4	φ 3X40	4	0.9mm Tight Tube	4	2.5m	4	FC/APC	
		91	980/1060	5	φ 3X45	5	2.0mm Tight Tube	5	3.0m	5	LC/UPC	
		93	980/1310	6	90×20×10ABS	6	3.0mm Tight Tube	6	3.5m	6	LC/APC	
		95	980/1550	7	100×80×10 ABS	M	MM Fiber	7	0.7m	7	ST/UPC	
		OS	Special	S	Special	P	PM Fiber	8	1.2m	8	E2000	
						S	Special	9	2.7m	9	MPO	
						S	Special	S	Special			