

BUY NOW 

2um Fused Coupler/Splitter

Product Description

The FC Series fiber optic coupler is based on Agiltron's fused biconical taper technology and compact packaging structure. It features good uniformity, low excess loss and very low polarization sensitivity. The device is ideal for splitting or combining light with exceptional performance over a wide wavelength range



Features

- Wavelength Independent
- Ultra Low Excess Loss
- Low Polarization Sensitivity
- Highly Stable & Reliable
- Ultra Low Cost

Performance Specifications

FC Series	Parameter		Unit	
Coupling Ratio	1/99 to 50/50			
Bandwidth	± 20		nm	
Excess Loss [1]	< 0.1		dB	
Insertion Loss [1]	Output1	Output2		
	Split Ratio:50/50	< 3.6	< 3.6	dB
	Split Ratio:40/60	< 4.8	< 2.8	dB
	Split Ratio:30/70	< 6.1	< 2.0	dB
	Split Ratio:20/80	< 8.0	< 1.3	dB
	Split Ratio:10/90	< 12.0	< 0.8	dB
	Split Ratio: 5/95	< 18.4	< 0.5	dB
	Split Ratio: 1/99	< 22.0	< 0.3	dB
Uniformity (50/50)	< 1.0		dB	
Polarization Dependent Loss	< 0.15		dB	
Directivity	> 55		dB	
Return Loss [2]	> 55		dB	
Optical Power Handling	< 5		W	
Operating Temperature	-40-75		°C	
Storage Temperature	-40-85		°C	
Package Dimension *	250um: (φ)3x(L)60		mm	
	900um: (φ)3x(L)77			

[1]. without connector. Each connector adds 0.3dB and 0.5dB for short wavelength

[2]. without connector. Each connector adds 5dB

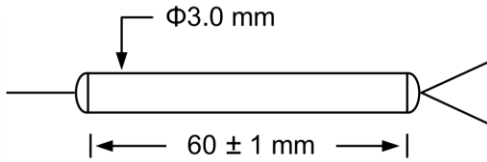
* Other package options available on request

Applications

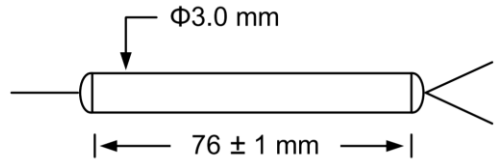
- Telecommunications
- CATV
- Local Access Network (LAN)
- Fiberoptic Instrumentation

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Mechanical Dimensions (mm)



250 μm bare fiber



900 μm loose tube

*Product dimensions may change without notice. This is sometimes required for non-standard specifications.

Ordering Information

Prefix	A	2	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Prefix			Coupling Ratio	Port	Fiber Type	Fiber Cover	Fiber Length	Connector
FC-			01/99 = 99 05/95 = 95 10/90 = 90 20/80 = 80 30/70 = 70 40/60 = 60 50/50 = 50 Special = 00	1x2 = 1 2x2 = 2	SM 1950 = 1 PM 1950 = 2 Special = 0	250μm = 1 900μm tube = 2 Special = 0	0.5m = 1 1m = 2 Special = 0	None = 1 FC / PC = 2 FC / APC = 3 SC / PC = 4 SC / APC = 5 ST / PC = 6 LC = 7 Special = 0