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# FiberOptic Coupler/Splitter 1310 & 1550nm Single Mode

(patents pending)

## 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



## Performance Specifications

FC Series	Single Window	Dual Window	Unit	
Coupling Ratio	1/99 to 50/50			
Operation Wavelength	1270-1350 or 1510-1590	1270-1350 and 1510-1590	nm	
Excess Loss	< 0.1	< 0.1	dB	
Insertion Loss Split Ratio:	50/50	< 3.3	< 3.6	dB
	40/60	< 4.4/2.5	< 4.7/2.7	dB
	30/70	< 5.6/1.8	< 6.0/1.9	dB
	20/80	< 7.4/1.1	< 7.9/1.2	dB
	10/90	< 11.0/0.60	< 11.3/0.65	dB
	5/95	< 13.8/0.45	< 15.2/0.4	dB
Split Ratio: 1/99	< 19-21/0.2	< 23.5/0.3	dB	
Uniformity (50/50)	< 0.5	< 0.8	dB	
Polarization Dependent Loss	< 0.10	< 0.15	dB	
Temperature Sensitivity	< 0.002		dB/°C	
Directivity	> 55		dB	
Return Loss	> 55		dB	
Optical Power Handling	< 4		W	
Operating Temperature	-10-70		°C	
Storage Temperature	-40-85		°C	
Package Dimension *	250um&900um fiber: (φ)3x(L)54		mm	
	Mini: (φ)3x(L)25 special fiber			
	3mm Cable: (L)98x(W)14x(H)8.5			

\* Other package options available on request

## Features

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

## Applications

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

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## Ordering Information

Prefix	Type	Wavelength	Grade	Package	Coupling Ratio	Port	Fiber Type	Connector Type
FC-	Single Window=1 Dual Window= 2	1310=3 1550=5 1310/1550=7 Special=0	Premium=1 Special=0	54(L)=1 30(L)=2 98(L)=3 Special=0	01/99 = 1 02/98 = 2 05/95 = 3 10/90 = 4 15/85 = 5 20/80 = 6 30/70 = 7 40/60 = 8 50/50 = 9 Special = 0	1x2=1 2x2=2	SMF28 250mm=1 900um loose tube=3 Special= 0	None = 1 FC / PC = 2 FC / APC = 3 SC / PC = 4 SC / APC = 5 ST / PC = 6 LC = 7 Special = 0

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