



FiberOptic Coupler/Splitter

980 nm Single Mode

(patent pending)

Product Description

The FC Series fiber optic wideband 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	Performance	Unit
Coupling Ratio	1/99 to 50/50	
Operation Wavelength	965-995	nm
Excess Loss	< 0.12	dB
Insertion Loss Split Ratio:50/50	< 3.4	dB
Split Ratio:40/60	< 4.5/2.5	dB
Split Ratio:30/70	< 5.7/1.8	dB
Split Ratio:20/80	< 7.8/1.1	dB
Split Ratio:10/90	< 11.0/0.60	dB
Split Ratio: 5/95	< 14.0/0.45	dB
Split Ratio: 1/99	< 19-21/0.2	dB
Uniformity (50/50)	< 0.5	dB
Polarization Dependent Loss	< 0.10	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
Fiber Type	Puremode HI 980 or PuremodeHI 1060	
Package Dimension *	(φ)3.0x(L)54	mm

Applications

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

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(Click here for latest revision)

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www.agiltron.com

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Ordering Information

FC-	1							
	Type	Wavelength	Grade	Package	Coupling Ratio	Port	Fiber Type	Connector Type
		980=2 Special=0	Premium=1 Special = 0	1 Special=0	01/99=1 03/97=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	HI 980 =6 HI 1060 =7 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.

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