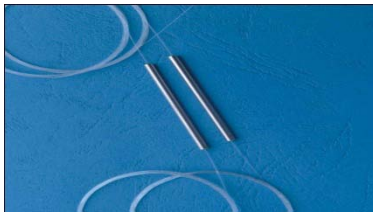
FiberOptic Coupler/Splitter
1480 nm Single Mode

(patents 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	1440-1520	nm
Excess Loss	< 0.10	dB
Insertion Loss Split Ratio:50/50	< 3.4	dB
Split Ratio:40/60	< 4.4/2.5	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	< 14.0/0.40	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	Corning SMF-28	
Package Dimension *	250um&900um fiber: (ϕ)3.0x(L)54	mm
	Mini: (ϕ)3.0x(L)30 250um fiber only	
	3 mm Cable: (L)98x(W)14x(H)8.5	

* Other package options available on request

Applications

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

Revision: 060-11
05-17-11

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Ordering Information

FC-	1	☐	☐	☐	☐	☐	☐	☐
	Type	Wavelength	Grade	Package	Coupling Ratio	Port	Fiber Type	Connector Type
		1480=4 Special=0	Premium=1 Special = 0	54 (L)=1 30 (L)=2 98 (L)=3 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	SMF-28 250um =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

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