PHOTONWARES
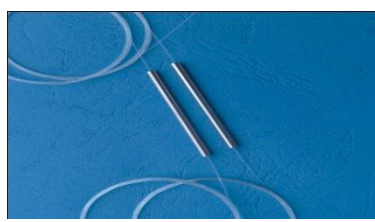
Fiber Optic Wideband Coupler/Splitter 850, 1310 or 1550 multimode

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
- Highly Stable & Reliable
- Ultra Low Cost

Applications

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

Performance Specifications

FC Series	Performance	Unit
Coupling Ratio	1/99 to 50/50	
Center Wavelength	850, 1310 or 1550	nm
Excess Loss	< 0.8	dB
Insertion Loss Split Ratio:50/50	< 4.0	dB
Split Ratio:40/60	< 4.9/3.2	dB
Split Ratio:30/70	< 6.3/2.5	dB
Split Ratio:20/80	< 8.0/1.9	dB
Split Ratio:10/90	< 10.8/1.30	dB
Split Ratio: 5/95	< 14.0/0.45	dB
Uniformity (50/50)	< 0.8	dB
Temperature Sensitivity	< 0.002	dB/^{o}C
Directivity	> 40	dB
Return Loss	> 40	dB
Operating Temperature	-10~70	^{o}C
Storage Temperature	-40~85	^{o}C
Fiber Type	50/125 or 62.5/125 multimode	
Package Dimension	(ϕ)3.0x(L)54	mm

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Ordering Information

FC-	1								
	Type	**Wavelength**	**Grade**	**Package**	**Coupling Ratio**	**Port**	**Fiber Type**	**Connector Type**	
	Single Window=1	850=1 1310=3 1550=5 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	50/125 Multimode =4 62.5/125 multimode=5 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.