

# 1x2 /2x2 105/125 $\mu$ m Multi-Mode Broadband Fiber Optic 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
- Low Insertion Loss
- Low PDL
- Highly Stable & Reliable
- Ultra Low Cost

## Performance Specifications

FC Series		Premium	Grade A	Unit
Splitting Ratio		5/95 to 50/50		
Central Wavelength		850/1310/1550/2000		nm
Bandwidth		± 20		nm
Excess Loss		0.2	0.3	dB
Insertion Loss	50/50	3.6/3.8	3.8/3.8	dB
	40/60	4.6/2.6	5.0/3.0	dB
	30/70	5.9/1.9	6.3/2.3	dB
	20/80	7.8/1.2	8.3/1.7	dB
	10/90	11.2/0.7	12.0/1.2	dB
	5/95	15.0/0.5	16.0/0.8	dB
Uniformity		0.5	0.8	dB
Optical Power Handling		5		W
Operating Temperature		-40~85		°C
Storage Temperature		-50~85		°C
Package Dimension *		Bare fiber: (ø)3x(L)54		mm
		900um loose tube: (ø)3x(L)70		
		900um loose tube / 2mm / 3mm		
		Cable: (L)90x(W)16x(H)9		

\* Other package options available on request

## Applications

- Optical communications
- FTTX
- Local Access Network (LAN)
- Fiberoptic Instrumentation

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## Ordering Information

FCM1-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Port	Wavelength	Grade	Package	Splitting Ratio	Fiber Type	Cable Type	Fiber Length	Connector
	1 = 1x2 2 = 2x2	4 = 1550nm 7 = 1310nm P = 2000nm A = 850nm 0 = Special	P = P Grade A = A Grade	1 = 54(L) 2 = 70(L) 3 = 90(L) 0 = Special	3 = 05/95 4 = 10/90 5 = 20/80 6 = 30/70 7 = 40/60 8 = 50/50 0 = Special	1 = NA0.15 2 = NA0.22	1 = 250µm bare 2 = 900µm tube 3 = 2mm cable 4 = 3mm cable 0 = Special	1 = 0.5m 2 = 0.75m 3 = 1.0m 0 = Special	0 = None 1 = FC/PC 2 = FC/SPC 3 = FC/APC 4 = FC/UPC 5 = SC/SPC 6 = SC/APC 7 = SC/UPC 8 = ST 0 = Special