



# 1x2 / 2x2 Single Mode Ultra-Low PDL Narrowband 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	Premium	Grade A	Unit	
Splitting Ratio	1/99 to 50/50					
Bandwidth	± 20 (1310~2000)		± 10 (780~1064)		nm	
Excess Loss <sup>[1]</sup>	0.07	0.1	0.07	0.1	dB	
Insertion Loss <sup>[1]</sup>	50/50	3.4/3.4	3.6/3.6	3.4/3.4	3.6/3.6	dB
	40/60	4.4/2.5	4.8/2.8	4.4/2.5	4.8/2.8	dB
	30/70	5.6/1.8	6.1/2.0	5.6/1.8	6.1/2.0	dB
	20/80	7.5/1.2	8.0/1.3	7.5/1.2	8.0/1.3	dB
	10/90	10.8/0.6	12.0/0.8	10.8/0.6	12.0/0.8	dB
	5/95	14.6/0.4	18.4/0.5	14.6/0.4	18.4/0.5	dB
	4/96	16.0/0.3	19.0/0.4	16.0/0.3	19.0/0.4	dB
	3/97	17.5/0.3	19.5/0.4	17.5/0.3	19.5/0.4	dB
	2/98	19.0/0.2	20.0/0.3	19.0/0.2	20.0/0.3	dB
	1/99	21.5/0.2	22.0/0.3	21.5/0.2	22.0/0.3	dB
Polarization Dependent Loss	0.1	0.1	0.1	0.1	dB	
Uniformity	0.6	1.0	1.0	1.4	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					

[1]. without connector. Each connector adds 0.3dB and 0.5dB for short wavelength

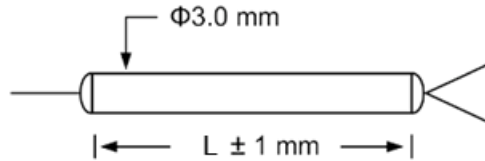
\* Other package options available on request

## Applications

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

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## Mechanical Dimension (mm)



## Ordering Information

Prefix	Port	Wavelength	Grade	Package	Splitting Ratio	Fiber Type	Fiber Cover	Fiber Length	Connector
<b>FCLN-</b>	1x2 = 1 2x2 = 2	1625nm = 1 1590nm = 2 1570nm = 3 1550nm = 4 1480nm = 5 1475nm = 6 1310nm = 7 1064nm = 8 980nm = 9 850nm = A 780nm = L 2000nm = P Special = 0	P Grade = P A Grade = A	54(L) = 1 70(L) = 2 90(L) = 3 Special = 0	01/99 = 1 02/98 = 2 05/95 = 3 10/90 = 4 20/80 = 5 30/70 = 6 40/60 = 7 50/50 = 8 3/97 = A 4/96 = B Special = 0	G.652 = 1 980-20 = 2 980-16 = 3 HI1060 = 4 HI1060 Flex = 5 HI780C = 6 SM1950 = 9 Large MAF = L Special = 0	250 $\mu$ m fiber = 1 900 $\mu$ m tube = 2 2mm cable = 3 3mm cable = 4 Special = 0	0.5m = 1 0.75m = 2 1.0m = 3 Special = 0	None = 0 FC/PC = 1 FC/SPC = 2 FC/APC = 3 FC/UPC = 4 SC/SPC = 5 SC/APC = 6 SC/UPC = 7 ST = 8 MU = 9 LC/PC = A LC/APC = B LC/UPC = C

[1]. Large Mode Area Fiber

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