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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 ^[1]	0.07	0.1	0.07	0.1	dB	
Insertion Loss ^[1]	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

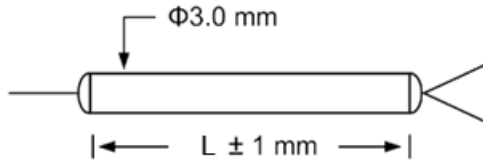
* Other package options available on request

Applications

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

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Mechanical Dimension (mm)



Ordering Information (Part

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

[1]. Large Mode Area Fiber

[2]. The connector cannot be installed directly onto bare fiber, as it is prone to damage during shipping. However, the connector can be assembled on bare fiber if a 3 cm protective loose tube is added for reinforcement. The customer can remove this protective tube after testing. The optical power handling of a standard connector is less than 0.5 W for SM28 fiber and decreases further with smaller core fibers.

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