

1x2 /2x2 Single Mode Broadband Fiber Coupler/Splitter

(SM28, 1260-1620nm)



DATASHEET

BUY NOW



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

Applications

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

Specifications

Parameter	Premium	Grade A	Unit	
Splitting Ratio	0.5/99.0 to 50/50			
Bandwidth	1260-1620		nm	
Excess Loss ^[1]	0.07	0.1	dB	
Insertion Loss ^[1]	50/50	3.4/3.4	dB	
	40/60	4.4/2.5	dB	
	30/70	5.6/1.8	dB	
	20/80	7.5/1.2	dB	
	10/90	10.8/0.6	dB	
	5/95	14.6/0.4	dB	
	4/96	16.0/0.3	dB	
	3/97	17.5/0.3	dB	
	2/98	19.0/0.2	dB	
	1/99	21.5/0.2	dB	
	0.5/99.5	23.0/0.2	24.0/0.3	dB
Polarization Dependent Loss	0.2	0.2	dB	
Return Loss	>50	>55	dB	
Directivity	>55		dB	
Optical Power Handling	5		W	
Fiber Type	SM28e			
Operating Temperature	-40~85		°C	
Storage Temperature	-50~85		°C	
Package Dimension *	Bare fiber: (ø)3x(L)40 / (ø)3x(L)54 900um loose tube: (ø)3x(L)70 900um loose tube / 2mm / 3mm Cable: (L)90x(W)16x(H)9		mm	

Notes:

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

* Other package options available on request

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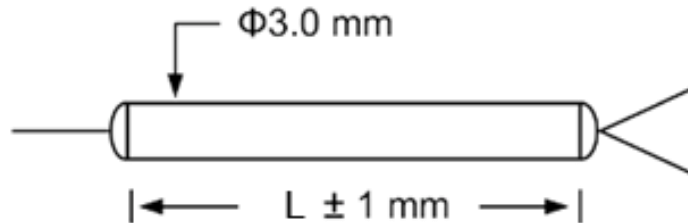
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Mechanical Dimensions (mm)



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

Ordering Information

Prefix	Port	Wavelength	Grade	Package	Splitting Ratio	Fiber Type	Fiber Cover	Fiber Length	Connector
FCBB-	1x2 = 1 2x2 = 2	1260-1625nm = 1 Special = 0	P Grade = P A Grade = A	54(L) = 1 70(L) = 2 90(L) = 3 40(L) = 4 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 0.5/99.5 = 9 3/97 = A 4/96 = B Special = 0	SM28 = 1 SM1950 = 2	250 μ m Coat = 1 900 μ m Tube = 2 2mm Cable = 3 3mm Cable = 4 Special = 0	0.5m = 1 0.7m = 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