

Fused Coupler

> 1x2, 2x2, multi mode

Features

- Low Insertion loss
- Variety of fiber types
- Variety of coupling ratios
- Environmentally stable and reliable



Applications

- Test equipment
- Video Networks
- Local Area Networks (LAN)
- Optical fiber sensors



Specifications

1x2, 2x2, Multi Mode, Standard Coupler

Parameter	A Grade	B Grade
Operating Wavelength (nm)	850 & 1310 (others on request)	
Excess loss (dB)	0.7	1.0
Uniformity (dB)	≤ 0.8	≤ 1.0
Coupling Ratio (%)	1 : 99 to 50 : 50	
Polarization Stability (dB)	0.10	0.15
Directivity (dB)	>35	
Operation temp. (°C)	-40 to +70	
Storage temp. (°C)	-50 to +85	
Temp. Coefficient (dB/°C)	<0.002(Max.)	
Dimensions (mm)	Bare fiber: 3.0 (ψ) x 54 (L) Loose tube: 3.5(ψ) x 65 (L) PVC: 95(L) x 12(W) x 10(H)	

Coupling Ratio / Insertion Loss Reference Table

Desired Splitting Ratio	A Grade	B Grade
50 : 50	3.9	4.3
40 : 60	4.9/3.0	5.4/3.5
30 : 70	6.2/2.3	6.7/2.7
20 : 80	8.0/1.6	8.7/2.1
10 : 90	11.3/1.1	12.2/1.6
5 : 95	14.9/0.9	16.2/1.3
1 : 99	22.1/0.7	22.7/1.0

** The specifications listed above do not include the effect of connector loss.

** Connector Type: SC, FC, ST, SC/APC, FC/APC, LC, MU are available.

** Specification values for devices with unbalanced split ratios are available upon request.

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Ordering Information

Indicate your requirements by selecting one option from each configuration table. Please write the corresponding codes in the available boxes to form your part number. For more information on this or other products and their availability, please contact Cube Optics AG at +49-6131-69851-0 or via e.mail at sales@cubeoptics.com, or visit our website at www.cubeoptics.com.

Ordering example: MM-1-C-4-M-10-A-2-55

MM	-		-		-		-	M	-		-		-		-	
Ports		Fiber type		Coupling Ratio		Fiber Length		Package		Wavelength		Grade		Connector		
1 = 1x2		4 = Corning 62.5/125 µm		01 = 01/99		1 = 1M		C = Coated Fiber		M = 850/1310		A = A grade		IN/OUT		
2 = 2x2		5 = Corning 50/125 µm		10 = 10/90		2 = 2M		L = Loose Tube				B = B grade		0 = None		
				20 = 20/80		:		P = PVC/ABS						1 = SC		
				30 = 30/70		:								2 = ST		
				40 = 40/60		9 = 9M								3 = FC		
				50 = 50/50		A = 0.5M								5 = MU		
														6 = FC/APC		
														7 = SC/APC		
														8 = LC		
														9 = MTRJ		
														E = E2000		
														A = E2000/APC		

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