

## Singlemode Fiber Coupler



### Key Features

- Low Excess Loss
- Various Coupling Ratio
- Compact Size

### Applications

- Long-haul Telecommunications
- CATV Systems & Fiberoptic Sensors
- Local Area Network

### Performance Specifications

Parameter	Specifications
Coupling Ratio	50/50%
Port Configuration	1x2 or 2x2
Directivity	≥ 55dB
Operating Temperature	-20 to +75°C (-40 to +85°C Available upon request)
Storage Temperature	-40 to + 85°C
Fiber Type	Corning singlemode SMF-28,DS fiber or flexcore
Fiber Pigtail Length	1m
Package Dimensions (mm)	Package M, N, A, B, C

Singlemode Standard Coupler		
Operating Wavelength	850nm±10nm, 980nm±10nm, 1310nm±10nm, 1480nm±10nm, 1550nm±10nm, 1585nm±10nm, or Custom wavelength	
Grade	P Grade	A Grade
Coupling Ratio	50/50%	50/50%
Excess Loss (Typ.)	0.10dB	0.15dB
Insertion loss (Max.)	3.30dB	3.50dB
Polarization Sensitivity	0.10dB	0.15dB

Singlemode Wideband Coupler		
Operating Wavelength	1310nm±40nm, 1550nm±40nm, 1585nm±40nm, or Custom wavelength	
Grade	P Grade	A Grade
Coupling Ratio	50/50%	50/50%
Excess Loss (Typ.)	0.10dB	0.20dB
Insertion loss (Max.)	3.30dB	3.50dB
Polarization Sensitivity	0.10dB	0.15dB

### Coupling Ratio/Insertion Loss Conversion Chart

Coupling Ratio	Insertion loss	
	P Grade	A Grade
Grade	P Grade	A Grade
40/60	4.4dB/2.5dB	4.4dB/2.8dB
30/70	5.6dB/1.8dB	6.0dB/2.0dB
20/80	7.6dB/1.2dB	8.0dB/1.3dB
10/90	10.8dB/0.60dB	12.0dB/0.80dB
5/95	13.8dB/0.35dB	15.7dB/0.55dB
2/98	18.0dB/0.25dB	19.5dB/0.30dB
1/99	21.0dB/0.20dB	21.5dB/0.30dB

Note: All values referenced are without connector.

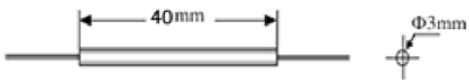
### Ordering Information

Type	Grade	Wavelength	Coupling Ratio or Attenuation (dB)	Port	Package	Pigtail Style	Fiber Type	In/Out Connector
↓	S = Special	83 = 830nm	50 = 50/50	0102 = 1x2	M = Package M	1 = 250um Bear Fiber	0 = SMF-28	0 = None
	P = P Grade	85 = 850nm	30 = 30/70	0202 = 2x2	N = Package N	2 = 900um Jacket	1 = HI 1060	1 = FC/APC
	A = A Grade	98 = 980nm	10 = 10/90		A = Package A	3 = 3mm Cable	2 = HI 780	2 = FC/PC
		13 = 1310nm	05 = 5/95		B = Package B		D = DS Fiber	3 = SC/APC
		14 = 1480nm	01 = 1/99		C = Package C		S = Special	4 = SC/PC
		15 = 1550nm						5 = ST
		16 = 1580nm						6 = LC/UPC
							7 = LC/APC	
							X = Special	
S = Singlemode Standard Coupler W = Singlemode Wideband Coupler								

## Package Dimensions & Pigtail Style

### Pigtail Dimensions:

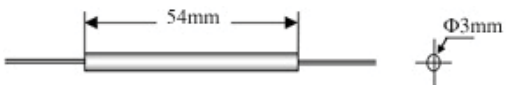
Package M: 3mm x 40mm Stainless Steel Tube



Package N: 3mm x 35mm Stainless Steel Tube



Package A: 3mm x 54mm Stainless Steel Tube



Package B: 3mm x 60mm Stainless Steel Tube



Package C: 8.5mm x 14mm x 98mm Case



### Pigtail Style:

Package M, N, A: 250um Bare Fiber

Package B: 250um Bare Fiber or 900um Loose Tube

Package C: 3mm Cable or 900um Loose Tube