



# Singlemode Fiber Couplers



### Features

- Low Excess Loss
- Various Coupling Ratio
- Compact Size

### Applications

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

## Performance Specifications

Coupling Ratio(%)	50/50
Directivity (dB)	≥55
Operating Temperature(°C )	-40 ~ +85
Storage Temperature(°C )	-40 ~ +85
Fiber Type	Corning singlemode SMF-28,DS fiber or Flexcore
Fiber Pigtail Length (m)	1
Port Configuration	1x2 or 2x2
Dimensios (mm)	Package M, N, A, B, C

### Singlemode Standard Couplers

Grade	Premium	A Grade
Coupling Ratio (%)	50/50	50/50
Excess Loss (Typical)(dB)	0.1	0.15
Maximum Insertion loss (dB)	3.4	3.5
Maximum PDL (dB)	0.1	0.15
Operating Wavelength (nm)	850, 980, 1310, 1480, 1550, 1585, or custom wavelength	

### Singlemode Wideband Coupler

Grade	Premium	A Grade
Coupling Ratio (%)	50/50	50/50
Excess Loss (Typical )(dB)	0.1	0.2
Maximum Insertion loss (dB)	3.4	3.5
Maximum PDL(dB)	0.1	0.15
Operating Wavelength (nm)	1310 ±40,1550±40,1585±40 or custom wavelength	



## Coupling Ratio/Insertion Loss Conversion Chart

Coupling Ratio	Insertion Loss	
	Premium	A Grade
40/60	4.4/2.5	4.6/2.8
30/70	5.6/1.8	6.0/2.0
20/80	7.4/1.1	7.7/1.3
10/90	10.8/0.6	12.0/0.8
5/95	14.6/0.4	15.7/0.55
2/98	19.0/0.2	19.5/0.3
1/99	21.0/0.2	21.5/0.3

## Ordering Information

Type	Grade	Wavelength	Coupling Ratio or Attenuation (dB)	Port	Package	Pigtail Style	Fiber Type	In/Out Connector
S	S	83=830nm	50=50/50	0102=1x2	M=Package M	1=Bare Fiber	0=SMF-28	0=None
W	P A	85=850nm	30=30/70	0202=2x2	N=Package N	2=900um Jacket	1=Corning flexcore	1=FC/APC
		98=980nm	10=10/90		A=Package A	3=3mm Cable	1060	2=FC/PC
		13=1310nm	05=5/95		B=Package B C=Package C	2=Corning flexcore	3=SC/APC	
		14=1480nm	01=1/99			780nm	4=SC/PC	
		15=1550 nm				D=DS Fiber	5=ST	
		16=1585nm				S=Special	6=LC	
								x=Special

\* **Type:** S -- Singlemode Standard Coupler  
W -- Singlemode Wideband Coupler

## PACKAGE DIMENSIONS & PIGTAIL STYLE

### Package 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

