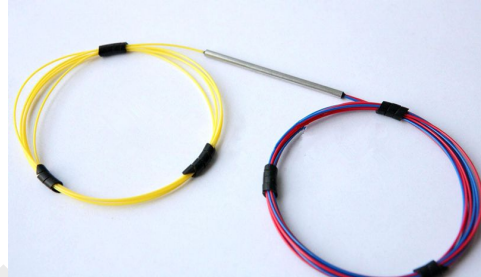


1X2/2X2 Coupler

Product Name: 1X2/2X2 coupler

Features

- ❖ Low Insertion loss
- ❖ Wide Operating Wavelength
- ❖ Compact Size
- ❖ Excellent Environmental & Mechanical Stability



Applications

- FTTX Systems
- LAN, WAN and Metro Networks
- Analog/Digital Passive Optical Networks
- CATV Networks
- Subscriber Loop
- Fiberoptic Instruments
- Fiber Sensors
- Other applications in fiber optic systems

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
Package Dimension	Package M, N, A, B, C

Single mode Standard Coupler		
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
Polarization Sensitivity (dB)	0.1	0.15
Operating Wavelength (nm)	850, 980, 1310, 1480, 1550, 1585, or custom wavelength	
Single mode 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
Polarization Sensitivity (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
Single mode Dual Window Wideband Coupler		
Grade	P	A
Coupling Ratio (%)	50/50	50/50
Excess Loss (Typical)(dB)	0.1	0.15
Maximum Insertion loss (dB)	3.6	3.8
Uniformity (Max.) (dB)	0.7	1.0
Polarization Sensitivity (dB)	0.10	0.15
Operating Wavelength (nm)	1310 /1550 ± 40, 1310 /1585± 40, or custom wavelength	

Coupling Ratio/Insertion Loss Conversion Chart

Coupling Ratio	Insertion Loss	
	Premium	A Grade
40/60	4.7/2.7	5.0/2.9
30/70	6.0/1.9	6.4/2.1
20/80	7.9/1.2	8.5/1.4
10/90	11.3/0.5	12.7/0.8
5/95	15.2/0.4	18.5/0.5
1/99	22.5/0.3	23.0/0.4

Note: 1. All parameters are for device without connectors.
 2. Special specifications can be customized according to customer requirements.

Ordering Infomation



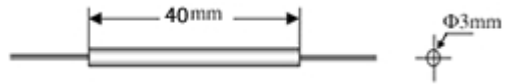
Type	Grad	Wavelength	Coupling Ratio or Attenuation	Port	Package	Pigtail Style	Fiber Type	In/Out Connector
S	S	83=830nm	50=50/50	0102=1x2	M=Package	1=Bare Fib	0=SMF-28	0=None
W	P	85=850nm	30=30/70	0202=2x2	M	er	1=Corning	1=FC/APC
	A	98=980nm	10=10/90		N=Package	2=900µm	Flexcore 1060	2=FC/PC
		13=1310nm	05=5/95		N	Jacket	2=Corning	3=SC/APC
		14=1480nm	01=1/99		A=Package	3=3mm	Flexcore	4=SC/PC
		15=1550nm			A	Cable	780nm	5=ST
		16=1585nm			B=Package		D=DS Fiber	6=LC
		35=1310/1550nm			B		S=Special	
		36=1310/1585nm			C=Package			
					C			

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

Package Dimensions

Package M:

3mm x 40mm stainless steel tube

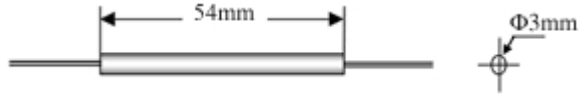


Package N:

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

