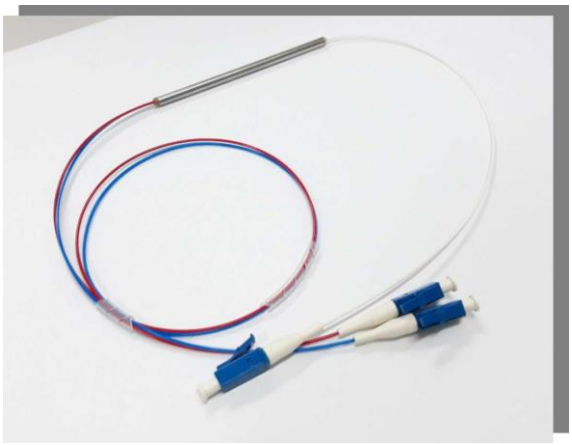
Dual Window Fused Tap Coupler

Features:

- Telcordia GR-1221 Compliant
- Low Insertion Loss
- 1310nm and 1550nm operation
- Low PDL
- ±40nm Bandwidth in each window



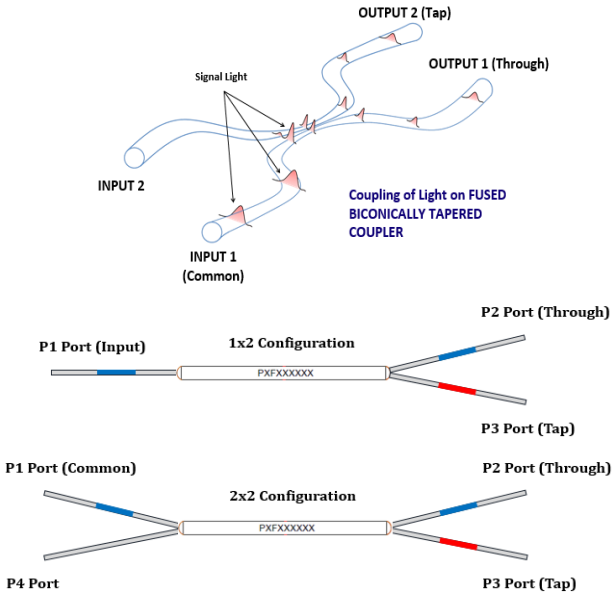
Application:

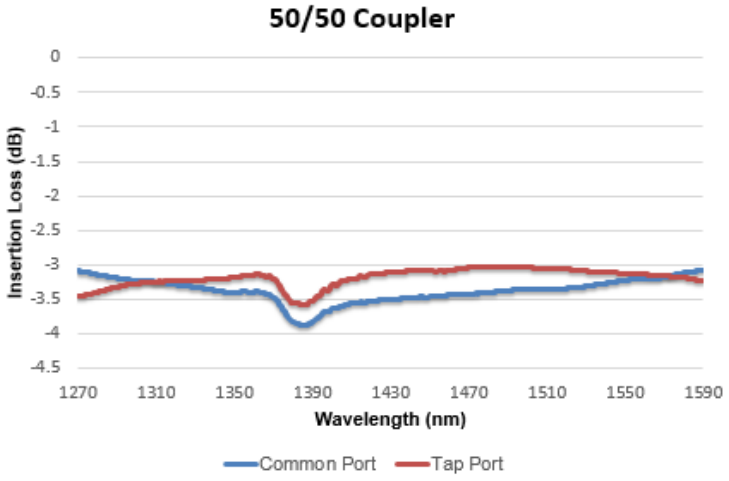
- Optical Fiber Distribution
- Signal Monitoring
- Optical Test System
- Passive Optical Network
- Power Splitting

Description:

Go!Foton Dual Window Fused Tap Coupler can be used to split light from one fiber to two fibers or to combine light from two fibers to one and provide high performance across a broad wavelength . These devices are ideal for CATV systems and telecommunications, and provide low insertion loss with high reliability.

Schematic and Wavelength Spectrum:





Port Marking Length: 100±10mm
Start of Port Marking: 300±10mm from Metal Edge

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Dual Window Fused Tap Coupler

Specification:

Specifications			Splitting Ratio 50/50	
Parameter		**Unit**	**Premium**	**Grade A**
Center Wavelength		nm	1310 and 1550	
Bandwidth		nm	±40	
Insertion Loss [1]	Max	dB	3.6	3.9
Uniformity [2]	Max	dB	0.8	1.0
Polarization Dependent Loss	Max	dB	0.15	0.15
Directivity	Min	dB	55	
Return Loss	Min	dB	50	
Power Handling Capacity	Max	mW	500	
Operating Temperature		°C	-40 to 85	
Storage Temperature		°C	-40 to 85	
Fiber Type			ITU 652.D Compliant Fiber	
Package Dimension		mm	ϕ3.0x45 for 250um Bare Fiber	
			ϕ3.0x65 for 900um Loose Tube	

Notes: 1. Values are reference without connectors.

2. Parameter used for 50/50 tap coupler only and other parameters are applicable to all different coupling ratio.

Coupling Ratio and Insertion Loss Table

Coupling Ratio	Maximum Insertion Loss (dB)			
	Premium		Grade A	
	Output Port 1	Output Port 2	Output Port 1	Output Port 2
50:50	3.6	3.6	3.9	3.9
60:40	2.7	4.7	2.9	5.0
70:30	1.9	6.0	2.1	6.4
80:20	1.2	7.9	1.4	8.3
90:10	0.6	11.3	0.8	12.7
95:5	0.4	14.6	0.5	15.9
98:2	0.3	19.8	0.4	21.0
99:1	0.3	23.5	0.4	24.0

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Ordering Information

Product Category

FTC – Fused Tap Coupler

Operating Wavelength

D- Dual Wavelength (1310±40nm and 1550±40nm)

Grade Type

P – Premium
A – Grade A

Configuration

1 – 1x2
2 – 2x2

Coupling Ratio

50 – 50/50
40 – 60/40
30 – 70/30
20 – 80/20
10 – 90/10
05 – 95/5
02 – 98/2
01 – 99/1

Package Type [1]

1 – 250um Single Mode Fiber
2 – 900um Loose Tube White (250um Single Mode Fiber)
X – Special or Specified by customer

Fiber Length [2]

1 – 1 meter
2 – 2 meters
3 – 3 meters
X – Special or Specified by customer

Connectors [3]

0 – None
1 – FC/UPC
2 – FC/APC
3 – SC/UPC
4 – SC/APC
5 – LC/UPC
6 – MU/PC
7 – LC/APC
X – Special or as specified by customer

Customer Code [4]

--- 3 Letters Series

Product Series [4]

--- 3 Numeric Series

Notes:

1. **See Package Dimension in Table above specification for Package Standard**
2. **The mechanical fiber length tolerance is ±0.1meters.**
3. **All ports are with connector of same type**
4. **Only applicable for products which is not cover by standard specifications**

Example: FTCDP150115

Fused Tap Coupler, Dual Window, Premium Grade, 1x2 configuration of 50/50 coupling ratio, 250um Single Mode Bare Fiber, 1 meter with LC/UPC termination

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