

WAVELENGTH INDEPENDENT COUPLERS (WIC)

Gould's Wavelength Independent fiber optic Coupler (WIC) can be used to split light from one fiber to two or combine light from two fibers to one and provide high performance across a broad wavelength region (from 1270nm to 1600nm). WIC couplers are ideal for use in two color OTDRs, full duplex transmission on a single fiber, multi-color sensors, and trunk/loop branching. These small devices are insensitive to the operating wavelength and provide low optical loss with high directivity.



Gould components have low loss and minimal back reflection, ideal for test and measurement applications.

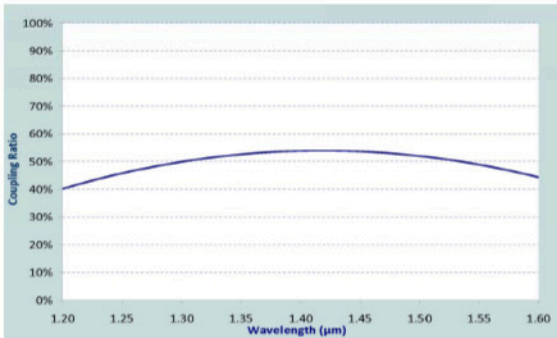
Specifications Based on 50/50 Coupling Ratio			
	Series 1	Series 2	Series F
Wavelength (nm)	1310 ± 40 & 1550 ± 40 1310 ± 50 & 1520 ± 40 1310 ± 50 & 1530 ± 50		
Insertion Loss (dB)	≤ 3.6	≤ 3.9	≤ 3.6
Uniformity (dB)	≤ 0.8	≤ 1.2	≤ 0.6
Typical Thermal Stability (dB)	≤ ±0.1		
Typical Polarization Stability (dB)	≤ ±0.1		
Typical Directivity (dB)	2x2	≥ 65	
	1x2	≥ 40	
	1x2 w/LRT™	≥ 60	

Features

- Low Excess Loss
- Low Insertion Loss Over Both Bandpasses
- Excellent Uniformity
- Low Polarization Dependent Loss
- High Directivity

Applications

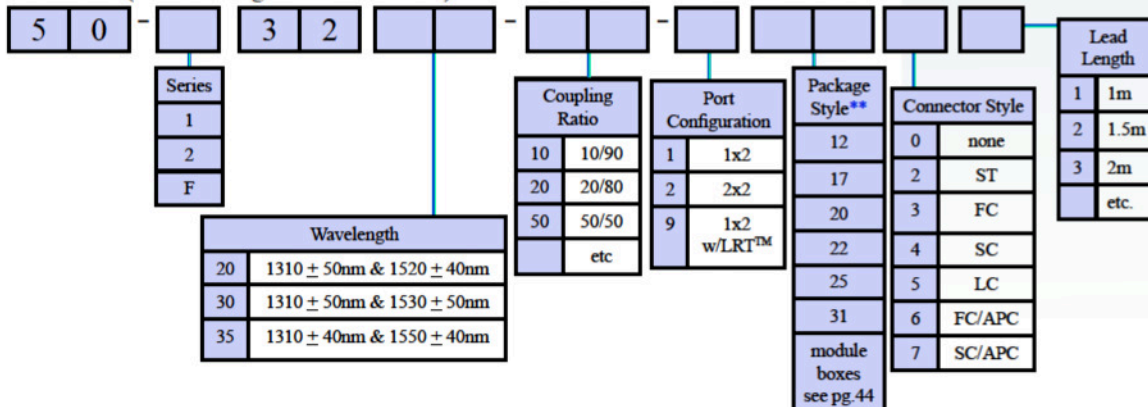
- Two Color OTDR
- Full Duplex Transmission
- Multi-Color Sensors
- Trunk/Loop Branching



Typical wavelength dependence of coupling ratio for wavelength independent couplers (WIC)

Coupling Ratio/Insertion Loss Chart		
Desired Split Ratio	Insertion Loss (dB)	
	Series 1	Series 2
50/50	3.6	3.9
40/60	4.7/2.7	5.0/2.9
30/70	6.0/2.1	6.4/2.1
20/80	7.9/1.4	8.5/1.4
10/90	11.3/0.9	12.7/0.9
5/95	15.1/0.5	18.9/0.7
1/99	23.0/0.4	23.0/0.6

Product #: (For Corning SMF-28™ Fiber)



Specifications are based on non-connectorized products. For connectorized specifications, please call sales for details. Custom optical & mechanical configurations are available upon request.

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