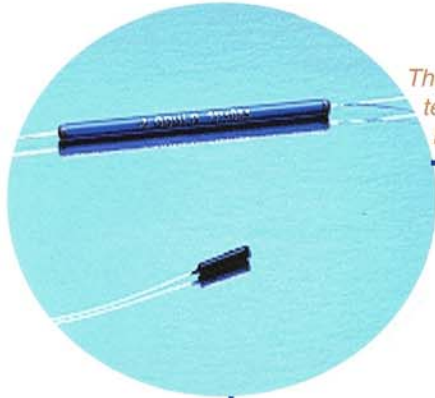


Single Wavelength Singlemode Couplers 1310nm, 1480nm, 1550nm

Gould's singlemode couplers are used to split light with minimal loss from one to two fibers or to combine light from two fibers into one fiber. These components are excellent for duplex transmission on a single fiber, CATV systems or within fiber optic test sets.



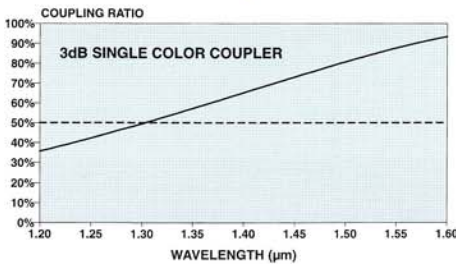
The unused port on Gould couplers can be terminated with an LRT™, yielding a back reflection ≥ 60 dB.

Specifications based on 50/50 coupling ratio

	SERIES 1	SERIES 2
Insertion Loss	≤ 3.4 dB	≤ 3.7 dB
Uniformity	≤ 0.6 dB	≤ 1.0 dB
Typical Thermal Stability		$\leq \pm 0.1$ dB
Typical Polarization Sensitivity		$\leq \pm 0.1$ dB
Typical Directivity	2x2	≥ 65 dB
	1x2	≥ 40 dB
	1x2	≥ 60 dB (with LRT™)

Coupling Ratio/Insertion Loss Chart

Desired Split Ratio	Insertion Loss (dB)	
	SERIES 1	SERIES 2
50/50	3.4	3.7
40/60	4.4/2.5	4.8/2.8
30/70	5.6/1.8	6.1/2.0
20/80	7.4/1.1	8.0/1.3
10/90	10.8/0.6	12.0/0.8
5/95	14.6/0.4	18.4/0.5
1/99	23.0/0.2	23.0/0.3



Typical wavelength dependence of coupling ratio for single wavelength couplers.

Options:

Low Reflection

Termination (LRT™): External LRT™ on the unused port (≥ 60 dB)

Wavelengths: 1310nm, 1480nm or 1550nm

Packaging: Available in package 12 and can be repackaged into styles 22, 25, 31 and modular boxes. Packages and connectors are described on pages 20-23.

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

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Series	03 = 100 kpsi 32 = 200 kpsi	Wavelength	Coupling ratio	Port configuration	Package style	Connector style
1, 2		31 = 1310nm 48 = 1480nm 55 = 1550nm	10 = 10/90 50 = 50/50 etc.	1 = 1 X 2 2 = 2 X 2 9 = 1x2 with LRT™	22, 25 or 31	0 = none see page 23