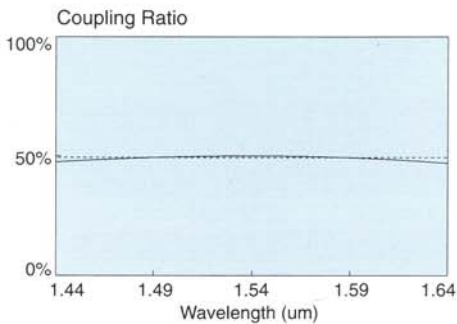


# Wavelength Flattened Couplers

Because Wavelength Flattened Couplers are small and insensitive to operating wavelengths, they are suitable for use in instrumentation, DWDM systems, trunk/loop branching, and CATV distribution. Their low optical loss and high directivity make them an excellent choice for systems with power constraints. Devices can be optimized at either 1310nm, 1550nm, or custom wavelengths. Available in a variety of coupling ratios.



Typical wavelength dependence of coupling ratio for wavelength flattened couplers.

## Specifications based on 50/50 coupling ratio

	SERIES 1	SERIES 2
Insertion Loss	≤ 3.4dB	≤ 3.7dB
Center Wavelengths	1310nm or 1550nm	
Bandpass		±40nm
Uniformity (50/50 couplers only)	≤ 0.6dB	≤ 1.0dB
Typical Thermal Stability		≤ ± 0.1dB
Typical Polarization Sensitivity		≤ ± 0.1dB
Typical Directivity	2x2	≥ 65dB
	1x2	≥ 40dB
	1x2	≥60dB 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

\* For split ratios of 10/90, 5/95, 2/98 and 1/99 use the Low Polarization Tap Couplers on page 7.

## Options:

### Low Reflection

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

### Packaging:

Wavelength Flattened Couplers come in package style 12 and can be repackaged into 22, 25, 31 and modular boxes. Packages and connectors are described on pages 20-23.

### Styles:

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

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Series:	03 = 100 kpsi 32 = 200 kpsi	Wavelength 31 = 1310nm 55 = 1550nm	Coupling ratio 20 = 20/80 50 = 50/50 etc.	Port configuration 1 = 1 X 2 2 = 2 X 2 9 = 1 X 2 with LRT™	Package style 12, 22, 25 or 31	Connector style 0 = none See page 23
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