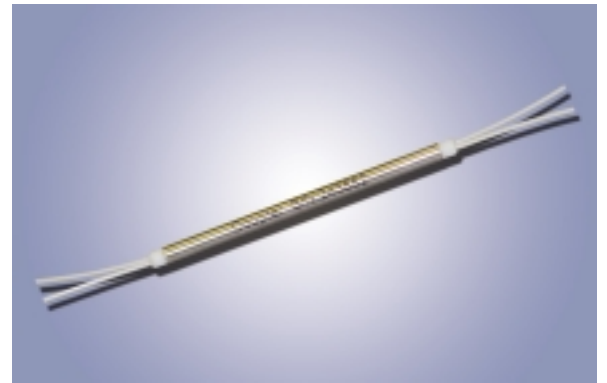




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## Single Mode Couplers

Single Mode Couplers are used to distribute optical signals between fibers. We offer various types of single mode coupler including standard couplers, polarization independent couplers, wavelength independent couplers and wavelength flattened couplers. These couplers are highly stable. They have low insertion loss, low polarization sensitivity and excellent uniformity.



### Types

- Single Mode **Standard** Couplers
- Single Mode **Polarization Independent** Couplers
- Single Mode **Wavelength Independent** Couplers
- Single Mode **Wavelength Flattened** Couplers

### Applications

- Long Haul Telecommunications
- Test Equipment
- CATV System
- Fiber Optic Sensors
- Network Monitoring
- LAN, WAN Systems
- Subscribers Loop

### Features

- Ultra Low Insertion Loss
- Ultra Low Polarization Sensitivity
- Dual-Window
- Various Coupling Ratio
- Wide Bandwidth
- Environmentally Stable
- Excellent Uniformity



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## SPECIFICATIONS

### High Power Single Mode Couplers (980nm, 1060nm)

Parameter		Standard					Units
Operating Wavelength		980 or 1060					nm
Bandwidth		±10					nm
Coupling Ratio		1/99	02/98	03/97	05/95	10/90	%
Insertion Loss	Max	21.9/0.25	18.5/0.3	16.5/0.35	14.5/0.45	11/0.7	dB
Coupling Ratio		20/80	30/70	40/60	50/50		%
Insertion Loss	Max	7.7/1.3	5.8/2.0	4.5/2.7	3.5/3.5		dB
PDL (Tap/Through Port)	Max	0.10					dB
Thermal Stability		<0.002 over -5°C to +70°C					dB/°C
Return Loss	Min	50					dB
Directivity	1x2	55					dB
	2x2	60					dB
Optical Power (CW)	Max	2 & 10					W
Fiber Type		HI 1060 Flex fiber or OFS 980 fiber					--
Package Dimensions		250um bare fiber, dia 3.0 x 40 mm					mm
		900um loose tube, dia 3.0 x 56 mm					mm
		3mm cable, 90 x 16 x 9mm					mm
Operating Temperature		-5 to +70					°C
Storage Temperature		-40 to +85					°C

\*Above specifications are for device without connectors.

\*IL is 0.5dB higher, RL is 5dB lower for each connector added.

## ORDERING CODES

OLCPL - S - [ ] - [ ] - [ ] - [ ] - [ ] - [ ]

Features	Code
Standard	SD

Wavelength	Code
980 nm	098
1060 nm	106
Others	Please Specify

Connector Type	Code
No Connector	NC
FC/PC	FP
FC/APC	FA
SC/APC	SA
Others	XX

Port	Code
1 x 2	12
2 x 2	22

Coupling Ratio	Code
50/50	50
40/60	40
30/70	30
20/80	20
10/90	10
05/95	05
03/97	03
02/98	02
01/99	01

Lead Types and Package Dimensions		Code
250 µm bare fiber	Ø3.0mm x40mm	25
900 µm loose tube	Ø3.0mm x 56mm	90
3 mm loose cable	90mm x 16mm x 9mm	3

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