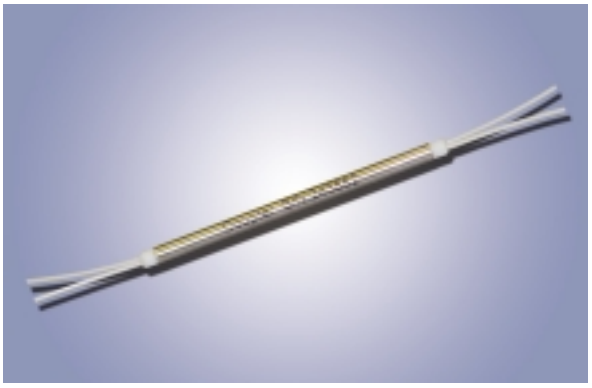
Opto-Link
Corporation Ltd

Single Mode Couplers

Single Mode Couplers are used to distribute optical signals to two output fibers. We offer various types of single mode coupler including standard couplers, polarization independent couplers, wavelength independent couplers and wavelength flattenend 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

Single Mode Couplers (1310nm, 1550nm)

Parameter			Standard	Polarization Independent	Wavelength Independent	Wavelength Flattened	Units
Operating Wavelength			1310 or 1550, others on request			1310 & 1550	nm
Bandwidth			±20	±20	±40	±40	nm
Excess Loss		Typ	0.05	0.05	0.05	0.06	dB
		Max	0.08				dB
Insertion Loss	Coupling ratio						
	50/50	Typ	3.05	3.05	3.05	3.06	dB
		Max	3.3	3.3	3.4	3.6	dB
	40/60	Typ	4.1/2.3				dB
		Max	4.4/2.5	4.4/2.5	4.4/2.5	4.7/2.7	dB
	30/70	Typ	5.3/1.6				dB
		Max	5.6/1.8	5.6/1.8	5.6/1.8	6.0/1.9	dB
	20/80	Typ	7.1/1.0				dB
		Max	7.4/1.2	7.4/1.2	7.4/1.2	7.9/1.2	dB
PDL	50/50, 40/60	Max	0.1	0.04	0.1	0.1	dB
	30/70, 20/80	Max	0.15/0.10	0.06/0.04	0.15/0.10	0.15/0.10	dB
Thermal Stability		Max	0.002 dB over -40°C to +85°C				dB
Directivity	Configuration						
	1x2	Min	50, 60 on request				dB
	2x2	Min	65				dB
Return Loss	1x2	Min	50				dB
	2x2	Min	65				dB
Operating Temperature	250µm bare fiber		-40 to +85				°C
	900µm loose tube		-20 to +70				°C
	2 or 3mm loose cable		-20 to +70				°C

*Above specifications are for device without connectors.

Single Mode Couplers (980nm, 1060nm)

Parameter		Standard				Units
Operating Wavelength		980 or 1060				nm
Bandwidth		±10				nm
Configuration		1x2 or 2x2				--
Excess Loss	Max	0.1				dB
Coupling Ratio		1/99	10/90	20/80	50/50	%
Insertion Loss	Max	21.9/0.25	11.0/0.70	7.7/1.2	3.5/3.5	dB
WDL		1.5/0.08	0.8/0.1	0.7/0.15	0.4/0.4	dB
PDL	Max	0.1				dB
Return Loss	Min	50				dB
Thermal Stability	Max	0.002				dB/°C
Operating Temperature		-20 to +70				°C

*Above specifications are for device without connectors.

ORDERING CODES

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Features	Code
Standard	SD
Polarization Independent	PI
Wavelength Independent	WI
Wavelength Flattened	WF

Port	Code
1 x 2	12
2 x 2	22

Wavelength	Code
1310 nm	131
1550 nm	155
1310 &1550nm	135
Others	Please Specify

Coupling Ratio	Code
50/50	50
40/60	40
30/70	30
20/80	20

Lead Types and Package Dimensions		Code
250 µm bare fiber	Ø3.0mm x40mm	25
900 µm loose tube	A: Ø3.0mm x 54mm	90A
	B: 90mm x 16mm x 9 mm	90B
3 mm loose cable	B: 90mm x 16mm x 9mm	3B
	C:106mm x 79mm x 10mm	3C

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

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