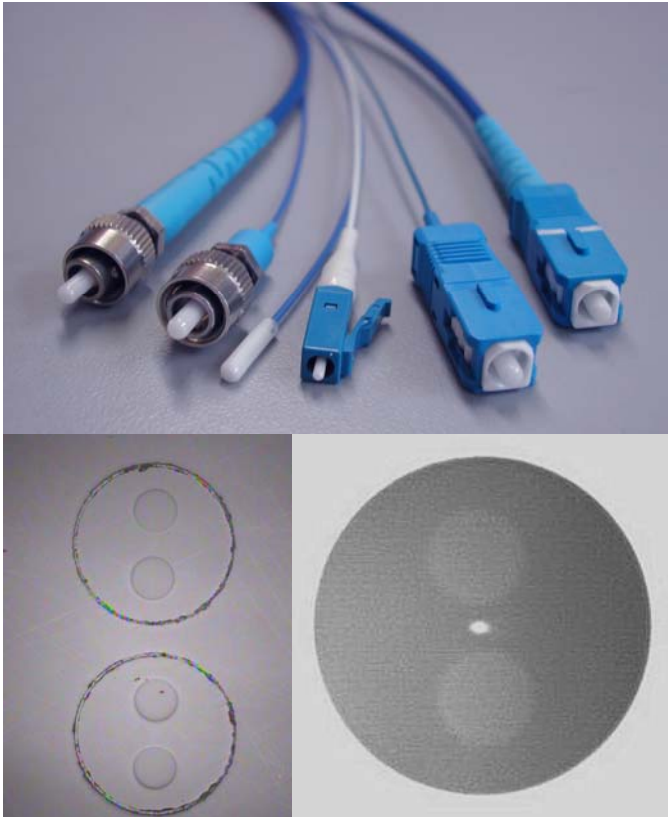


Polarization Maintaining Cables



Innovative

- Proprietary assembly procedures
- IL and ER Testing at the design wavelength
- Proprietary curing for High Extinction Ratios

Reliable

- 100% Testing of Insertion Loss, Return Loss, Extinction Ratio, Endface Geometry and Polish Quality
- Built in the USA with quality components
- Continuously improving upon procedures that were started over 15 years ago

Responsive

- Pricing of standard cables available on the web
- Fast quotations for custom cables
- Small quantity orders ship in two days

Performance

- Low Insertion Loss
- High Return Loss
- High Extinction Ratios
- 100% Testing
- Custom wavelength cables available

Coastal Connections custom engineers polarization maintaining cables to the tightest specifications in the industry. Our dedicated assemblers have 55 years of combined experience terminating a large variety of cables. We use the best polishers, fixtures, and test equipment in the industry for reliability and consistency. We use proprietary processes that were developed in a multi-million dollar military program to build the most reliable connector possible.

Polarization Maintaining Specifications

Connectors

Connectors	FC		LC		SC		FC Ferrule		Ferrule Stick		Capillary	
Polish	APC	UPC	APC	UPC	APC	UPC	APC	UPC	APC	UPC	APC	UPC
Type	Screw on		Push/ Pull		Push/ Pull		2.5mm OD With Flange		2.5mm OD 10.5mm Long		1.8mm OD 10mm Long	

Fibers

Fiber	PM 1550	PM 1300	PM 980	PM 850	PM 630	PM 480
Cut-Off (nm)	1290-1450	1100-1290	< 970	650-800	500-620	400-470
Mode Field (um)	10.5	9.5	6.6	5.5	4.0	4.0
Attenuation (dB/km)	0.5	1.0	3.0	3.0	12	50

Cables

OD	250um	400um	900um Tight	900um Loose	1.6mm PVC	3mm PVC Loose	3mm Steel	3mm Steel & PVC
Jacket Material	Acrylate	Acrylate	Acrylate + Hytrel (Nylon) Or Silicone	Hytrel (Nylon) or PTFE (Teflon)	PVC	Polypropylene + PVC	Stainless Steel	Galvanized Steel +PVC
Strength Member	-	-	-	-	Kevlar	Kevlar	Steel	Kevlar

Performance

Wavelength	1550	1310	980	850	630	480
Insertion Loss (dB)	≤ 0.25 (≤ 0.1 Avail)		≤ 0.35 (≤ 0.15 Avail)		≤ 0.50 (≤ 0.15 Avail)	
Return Loss (dB)	APC ≥ 70 PC ≥ 50		APC $\geq 60^*$ PC $\geq 50^*$		-	
Extinction Ratio (dB)	≥ 25 (35 Avail.)		≥ 25 (35 Avail.)		≥ 25 Typical	
Key to Fiber Alignment	+/- 2 Degrees		+/- 2 Degrees		+/- 2 Degrees	

* Return loss on 980nm fiber is measured at 1310nm