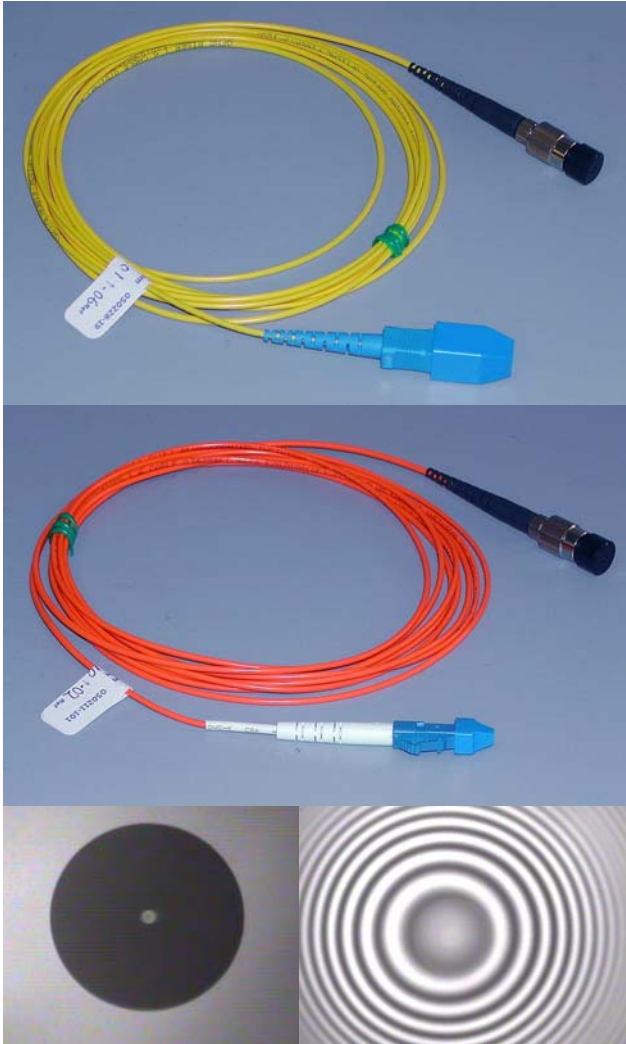


Reference Cables



Innovative

- Proprietary assembly procedures
- Measure eccentricity of fiber core to guarantee performance
- One data sheet shows all data including end face geometry and polish quality

Reliable

- 100% Testing of insertion loss, return loss, endface geometry and polish quality
- Built in the USA with quality components
- Apply quality procedures learned in building cables for satellites to every cable built

Responsive

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

Performance

- Higher throughput for your production
- Low Insertion Loss
- High Return Loss
- 100% Testing
- 100% Documentation

Coastal Connections custom engineers reference cables to the tightest specifications in the industry. Our dedicated assemblers have 55 years 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.

Reference Cable Specifications

Connectors

Connectors	E-2000	FC	LC	SC	SMA	ST	Military Termini
Polish	APC UPC	APC UPC	APC UPC	APC UPC	IPC	UPC	UPC
Type	Push Pull	Screw on	Push Pull	Push Pull	Screw on	Bayonet	Insert

Fibers

Fiber	SMF-28E	PM 980	PM 1300	PM 1550	SX+ Laser Optimized	Infinicor 600	Infinicor 300
Mode Field Core (um)	8.2	6.6	9.5	10.5	50	50	62.5
Wavelength (nm)	1310 1550	980 1060	1300	1550	850 1300	850 1300	850 1300
Attenuation (dB/km)	0.35 0.22	3.0	1.0	0.5	2.4 0.8	2.5 0.8	3.0 0.7
Numerical Aperture	0.14	0.14	0.14	0.14	0.20	0.20	0.275

Cables

OD	900um Tight	900um Loose	1.6mm PVC	1.6mm Steel	3mm PVC Tight	3mm PVC Loose
Jacket Material	PVC	Hytrel (Nylon) or PTFE (Teflon)	PVC	Stainless Steel	PVC	PVDF + PVC
Strength Member	-	-	Kevlar	Stainless Steel	Kevlar	Kevlar

Performance

Fiber	Single-Mode	PM	Multimode
Insertion Loss (dB)	≤ 0.1	≤ 0.1	≤ 0.05
Return Loss (dB)	APC ≥ 70 , PC ≥ 55	UPC ≥ 55	PC ≥ 50
Fiber Core Eccentricity	≤ 0.5	≤ 0.5	≤ 0.5
Extinction Ratio (dB)		30	
Radius of Curvature (mm)	APC $8 \leq \text{ROC} \leq 12$, UPC $14 \leq \text{ROC} \leq 25$		
Apex Offset (um)	≤ 30		
Fiber Height (nm)	$-50 \leq \text{FH} \leq +50$		