

High Power Cables

Innovative

- Minimal epoxy at the fiber endface
- Large radii on connector endface minimizes stress
- Proprietary polishing procedure minimizes losses and reflections at the connector



Reliable

- 100% Testing of insertion loss, return loss, endface geometry and polish quality
- Built in the USA with quality components
- Assembled in clean environment

Responsive

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

Performance

- High Power Threshold
- Low Insertion Loss
- High Return Loss
- Larger Radii on Connector Endface
- Metal Connector Caps
- Very Clean Connector Face

Coastal Connections custom engineers high power 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.

High Power Cable Specifications

Connectors

Connectors	FC	SC	SMA	ST	FC Ferrule	Ferrule Stick	Capillary
Polish	APC UPC	APC UPC	UPC	UPC	APC UPC	APC UPC	APC UPC
Type	Screw on	Push Pull	Screw on	Bayonet	2.5mm OD with Flange	2.5mm OD 10.5mm Long	1.8mm OD 10mm Long

Fibers

Fiber	SMF-28E	PM 980	PM 1300	PM 1550	SX+ Laser Optimized	Infinicor 600	Infinicor 300	Large Core Multimode
Mode Field SM Core MM (um)	8.2	6.6	9.5	10.5	50	50	62.5	100, 200, 300, 400 600, 800, 1,000
Wavelength (nm)	1310 1550	980 1060	1300	1550	850 1300	850 1300	850 1300	180-1100 High OH 500-1900 Low OH
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	2000-10 High OH 15-1 Low OH
Numerical Aperture	0.14	0.14	0.14	0.14	0.20	0.20	0.275	0.22

Cables

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

Performance

Fiber	Single-Mode	PM	Multimode 50, 62.5	Multimode 100 – 200um	Multimode 300 – 1,000um
Insertion Loss (dB)	≤0.1	≤0.1	≤0.05	≤0.5	≤1.0
Return Loss (dB)	APC ≥70, U PC ≥55		UPC ≥50	UPC ≥30	-
Extinction Ratio (dB)	-	30	-	-	-
Radius of Curvature (mm)	APC 8 ≤ ROC ≤ 12, UPC 14 ≤ ROC ≤ 25				
Apex Offset (um)	≤30			≤50	
Fiber Height (nm)	-50 ≤ FH ≤ +50				