

Component Termination



Innovative

- Proprietary assembly procedures minimize losses and reflections at the connector
- Spool up to 400 meters of fiber onto a small 10 X 2cm spool for bench top testing
- Measure up to 40dB extinction ratio on PM devices

Reliable

- ESD protection used on all active devices
- Built in the USA with quality components
- Assemblers experienced in terminating and testing many different components

Responsive

- Pricing of standard cables available on the web
- Fast quotations for custom terminations
- One day turn around available

Performance

- Low Insertion Loss
- High Return Loss
- 100% Testing on passive devices
- Testing of active devices available

Coastal Connections custom engineers terminations 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.

Component Termination Specifications

Connectors

Connectors	Din	E-2000	FC	LC	SC	SMA	ST	FC Ferrule	Ferrule Stick	Capillary	Bare Fiber
Polish	UPC	APC UPC	APC UPC	APC UPC	APC UPC	UPC	UPC	APC UPC	APC UPC	APC UPC	APC UPC
Type	Screw on	Push Pull	Screw on	Push Pull	Push Pull	Screw on	Bayonet	2.5mm	2.5mm X 10.5mm	1.8mm X 10mm	Coated Uncoated

Testing Capabilities

Insertion Loss	0dB to -60dB (+/-0.01dB) at 405nm, 630nm, 850nm, and 980nm 0dB to -70dB (+/-0.01dB) at 1310nm and 1550nm
Return Loss	Single-Mode: 0 to -70dB at 1310nm and 1550nm Multimode: -10 to -50dB at 1310nm
Extinction Ratio	0 to -40dB at 850nm, 980nm, 1310nm and 1550nm
Fiber Core Eccentricity	0.2um to 5um
Radius of Curvature	4mm to Flat
Apex Offset	0 to 200um
Polish Angle	0 to 20°
Fiber Height	0 to +/- 130nm
Magnification	5X-20X, 20X-100X, 200X, 400X and 800X with variable light intensity and image capture

Performance

Fiber	Single-Mode	PM	Multimode
Insertion Loss (dB)	≤0.2 (≤0.1 Avail)	≤0.25 (≤0.15 Avail)	≤0.2 (≤0.05Avail)
Return Loss (dB)	APC ≥65 (≥70 Avail), UPC ≥45 (≥50 Avail)		UPC ≥45 (≥50 Avail)
Extinction Ratio (dB)		25 (35 Avail)	
Radius of Curvature (mm)	APC 5≤ ROC ≤12, UPC 10≤ ROC ≤25		
Apex Offset (um)	≤ 50		
Fiber Height (nm)	APC -100≤ FH ≤+100, UPC -50≤ FH ≤+50		