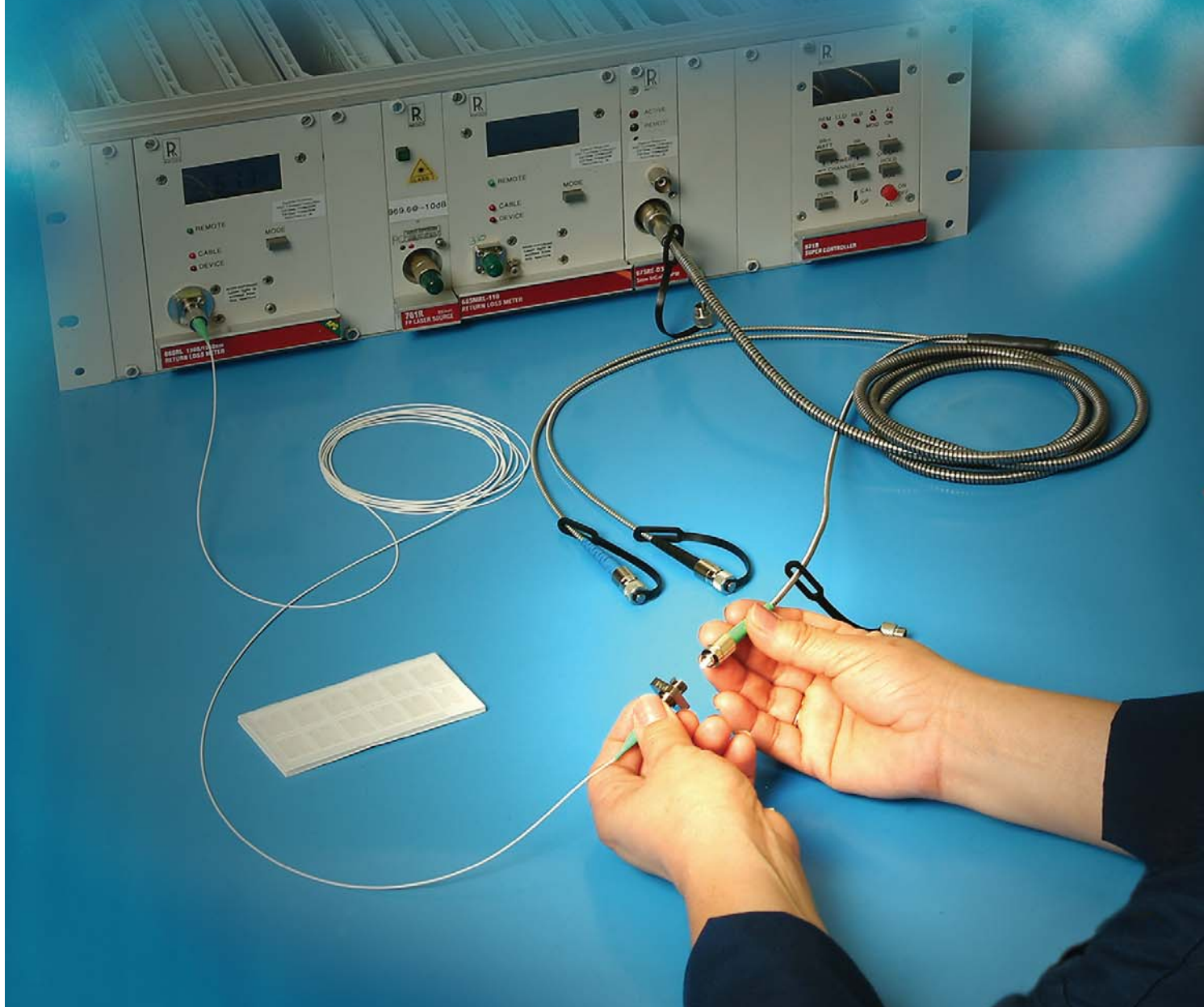


Coastal Connections

Innovative Fiber Termination Experts





Steel Breakout Cable

Fiber Optic Cables

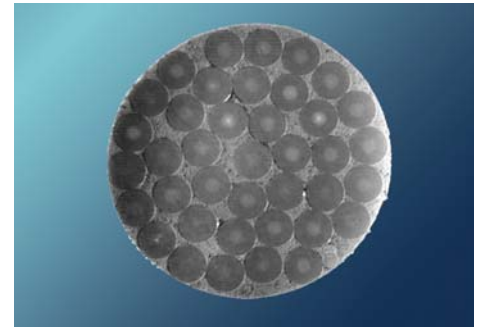
Coastal Connections is a fiber optic cable termination company with over 55 years of combined experience. We engineer and build custom cables and fiber terminations, to your specifications, for all wavelengths with 3-1000um core fibers.

Built To Specification

We assemble single-mode, multimode, polarization maintaining, high power, reference, medical, industrial, military and multi-fiber cables in our California facility.

Certified Quality

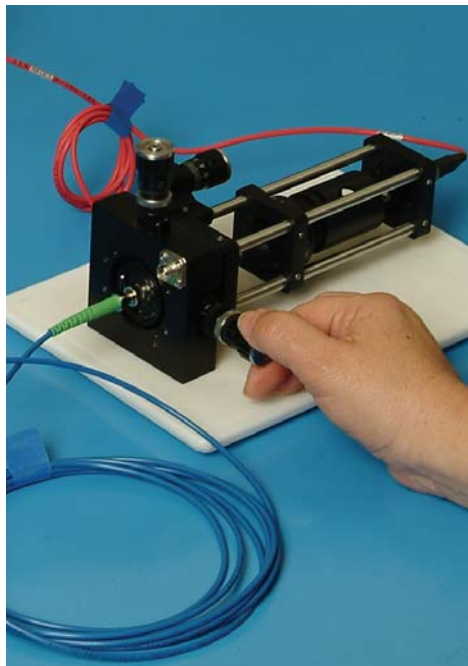
All terminations are made by skilled craftsman using the very latest precision instruments.



Custom Cables

Military and Aerospace ruggedized assemblies built to your specifications.

- Fiber Bundles
- Military Cables



Cable Assemblies

All assemblies go through the same rigorous testing, guaranteeing consistent, repeatable performance.

- Single-Mode Cables
- Multimode Cables
- PM Cables
- Reference Cables
- High Power Cables



Terminations

ESD protection and experience insure quality.

- Component Termination
- Device Termination

Engineering

Innovative, proven results for many applications ranging from medical catheters to large antenna arrays.



Quality

All processes are documented and controlled
 Quality is tracked and continuously improved
 100% Machine Polished Connectors
 100% Evaluation of Connector Profile
 100% Visual Inspection at 200x and 800x
 100% Inspection of Insertion and Return Loss

Experience

Over 55 years Combined Experience
 Average Assembler Has 5 Years Experience

Fast Turnaround

2 Days on Small Quantities

Large Inventory

Over 100 Different Fibers and Cables
 Over 50 Different Connectors

Competitively Priced

Starting at \$15 per Installed Connector

Industries Served

Telecom

Component & Test Equipment
 Manufacturers, Test Labs

Equipment Manufacturers

Medical, Industrial Encoders,
 Spectrometers

Fiber Patchcord Manufacturers

Commercial, Military

University Research Scientists

Caltech, Berkeley, MIT, Sydney,
 Amsterdam

Research Labs

Air Force Research Lab, MIT Lincoln Labs,
 NAWCWD China Lake, Sandia National
 Labs, Lawrence Livermore National Labs

Prime Contractors

Boeing, Lockheed Martin,
 Northrop Grumman, Raytheon



Innovative Fiber Termination Experts

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 Ventura, CA 93003
 Phone (805) 644-5051 • FAX (805) 644-5355
 www.coastalcon.com

Testing Capabilities

Insertion Loss	0dB to -60dB at 405nm, 630nm, 850nm, and 980nm 0dB to -70dB at 1310nm and 1550nm
Single-Mode Return Loss	-10 to -70dB at 1310nm and 1550nm
Multimode Return Loss	-10 to -55dB at 1310nm
Extinction Ratio	0 to -40dB at 980nm, 1310nm and 1550nm
Fiber Core Eccentricity	0.2um to 5um
Radius of Curvature	4mm to Flat
Apex Offset	0 to 200 um
Polish Angle	0 to 20°
Fiber Height	0 to +/- 300nm
Magnification	5X to 100X, 200X, 400X and 800X with variable light intensity and image capture

Performance

Fiber	Single-Mode	PM	Multimode
Insertion Loss	<0.2 (<0.1 available)	<0.25 (<0.1 available)	<0.2 (<0.05 available)
Return Loss (dB)	APC >65 (>70 available) UPC >50 (>55 available)	APC >65 (>70 available) UPC >50 (>55 available)	UPC >50 (>55 available)
Extinction Ratio (dB)	>25 (>35 available)		

Fibers

Single-Mode	SMF-28E	SMF-28 Leaf	1060nm	980nm	780nm Bend Insensitive
Multimode	50µm	62.5µm	100µm Graded	105µm Step	200µm High OH, Low OH
PM	1550nm	1300nm	1250nm	980nm	850nm
Single-Mode	780nm	630nm	460nm	400nm	320 nm
Multimode	300nm High OH and Low OH	400nm High OH and Low OH	600nm High OH and Low OH	800nm High OH and Low OH	1mm High OH and Low OH
PM	780nm	630nm	480nm	450nm	400nm

Connectors

Connectors	Din	E-2000	FC	LC	SC	SMA
Polish	UPC	APC-UPC	APC-UPC	APC-UPC	APC-UPC	UPC
Ferrule	Z-NS	Z-NS	Z-SS	Z	Z-SS	Z-SS

Connectors	ST	Military	2.5mm Ferrule	1.25mm Ferrule	Glass Capillary	Bare Fiber
Polish	UPC	UPC	APC-UPC	APC-UPC	APC-UPC	APC-UPC
Ferrule	C-SS	Z	Z-SS	Z	Silica	

Z = Zirconium, SS = Stainless Steel, NS = Nickel Silver

Cables

OD	250um	400um	900um tight	900um loose	1.6mm	2mm
Jacket Material	acrylate	acrylate	PVC	Hytel or PTFE	PVC	PVDF
Strength Member	—	—	—	—	Kevlar	Kevlar
OD	3mm tight	3mm loose	3mm steel	3mm steel	6.5mm steel	
Jacket Material	PVC or polyurethane	PVC	stainless steel	galvanized steel + PVC	stainless steel	
Strength Member	Kevlar	Kevlar	stainless steel	Kevlar	Kevlar	