



Fiber End-Caps

Short Wavelengths and High Power Cables

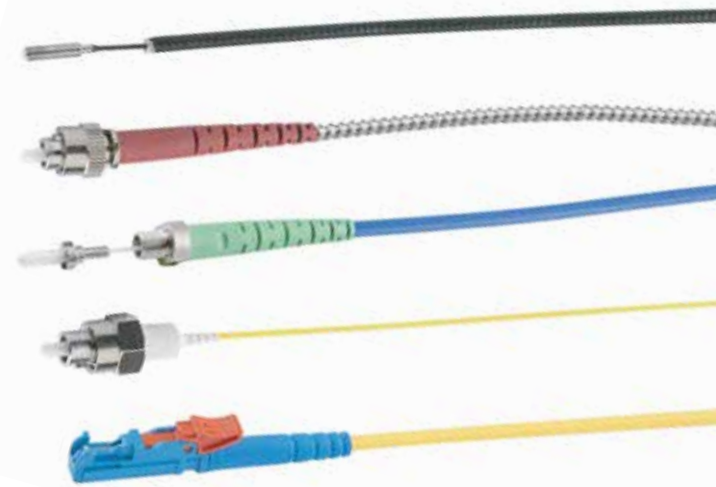
Coastal Connections is the world's leading supplier of Fiber End-Caps for PM, SM and MM fibers in ferrules and connectors. Fiber End-Caps reduce the power density where laser light enters or exits the fiber resulting in longer life cables. Short wavelength light deposits contaminants onto the core of fibers. By adding a Fiber End-Cap, the power density is reduced eliminating the depositing of contaminants.

Features:

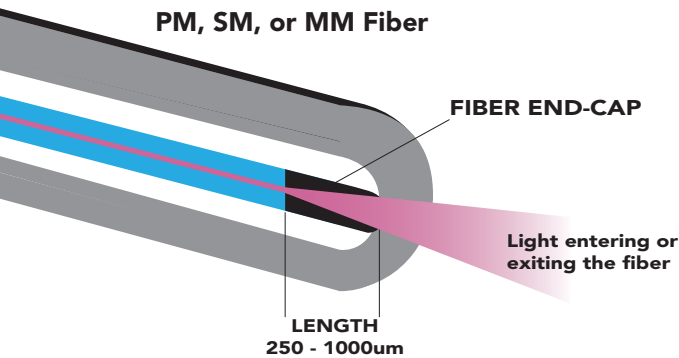
- $\leq 1\mu\text{m}$ Fiber core eccentricity on 125 μm clad fibers
- $\geq 25\text{dB}$ PER on PM Fibers (Tested at the design wavelength)
- Fiber endfaces may burn with as little as $0.5\text{MW}/\text{cm}^2$ however clean ends can withstand $2.5\text{MW}/\text{cm}^2$
- Fiber cores can withstand $1\text{GW}/\text{cm}^2$ (LMA fibers have survived $2\text{GW}/\text{cm}^2$ bursts)
- Extinction ratio, return loss, endface geometry, polish quality, NA, and beam ellipticity measurements available

Measurements Available:

- Numerical Aperture
- Beam Ellipticity
- Extinction Ratio
- Polish Quality
- Endface Geometry
- Return Loss



PM, SM, or MM Fiber



Fiber without End-Cap



Fiber Damage from High Power Lasers



Contaminated 405nm Fiber Core

Connectors

Other connectors are available.

Connectors	E-2000	FC, QFC	SMA	1.25mm Ferrule	2.5mm Ferrule
Polish	APC, UPC	APC, UPC, Flat Angle	UPC	UPC	APC, UPC, Flat Angle
Type	Push/Pull	Screw on		Ceramic Stainless	Ceramic, Glass Stainless

Fibers

Fiber	PM	SM	LMA	MM
	350-2000mm	350-2000mm	10-30um Core	25-100um Core

Cables

OD	900um	2mm	3mm	5.8mm	3mm-7mm
Jacket Material	Hyrel, PVDF, PTFE	PVC, PVDF	PVC, PVDF	Stainless w/ Silicone	Stainless

Coastal Connections custom engineers Fiber End-Caps for PM, SM and MM fibers in cables to the tightest specifications in the industry.