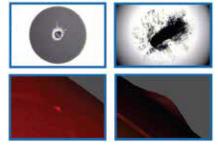
Fiber End-Caps

Short Wavelengths and High Power Cables

Overview

Impact ES—Ventura 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.

Fiber without End-Cap



Fiber damage from High

Contaminated 405nm

Unique Products:

- ≤1µm Fiber core eccentricity on 125µm clad fibers
- 225dB PER on PM Fibers (tested at the design wavelength)
- Fiber endfaces may burn with as little as 0.5MW/ cm² however clean ends can withstand 2.5MWcm²
- Fiber cores can withstand IGW/cm² (LMA fibers have survived 2GW/cm² 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
- · Beam angle
- · Polish Angle

Connectors

Other connectors 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
Туре	Push/Pull	Screw on		Ceramic Stainless	Ceramic, Glass, Stainless

Fibers

Fiber	PM	SM	LMA	ММ
	350-2000mm	350-2000mm	10-30µm Core	25-100µm Core

Cables

OD	900µm	2mm	3mm
Jacket Material	Hytrel, PVC, PVDF PTFE, PEEK	PVC, ETFE/PEEK	PVC, PVDF, Stainless













Industries We Serve

At Impact Electronic Solutions, we offer cutting-edge prototype and full-turnkey production services, providing unparalleled innovation and seamless solutions to meet your needs.

Our expertise spans highly regulated and mission-critical environments. We deliver complex electronic, fiber optic, and electromechanical products with exceptional quality and reliability. From product development to full-scale manufacturing, we prioritize customer-centric solutions and support groundbreaking innovations.

With extensive experience, we ensure success across diverse industries by consistently meeting rigorous standards and exceeding expectations.

About Us

We are a dynamic team dedicated to delivering innovative electronic design and manufacturing services that consistently outperform industry standards.

Our headquarters are in the Pacific Northwest, and the Impact ES network spans five key locations across the U.S.:

- · Clearwater, Florida
- Cranston, Rhode Island
- Grants Pass, Oregon
- Vancouver, Washington
- · Ventura, California

Our facilities have been recognized for excellence by numerous corporations, organizations, and publications, showcasing our commitment to quality, precision, and customer satisfaction nationwide.

Fiber Optic Cables and Assemblies Certifications





NASA 8739.5

We design and build products that matter.

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