

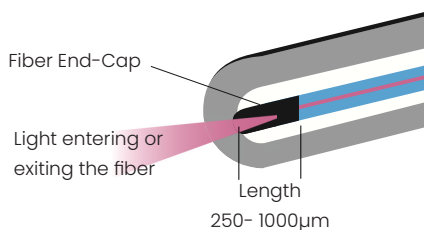
Laser Pigtails

Short Wavelength, MID-IR and High Power Lasers

Overview

Laser Pigtails are designed for permanent coupling to a laser which makes their quality crucial. Typically, one side is a custom ferrule or capillary that is coupled to a free space laser beam while the other end has a fiber optic connector. On many pigtails, there is a feedthrough which secures the external cabling to the laser housing. Behind the feedthrough, 900µm OD tubing is used for flexibility inside the chassis. Impact ES—Ventura has standard feedthroughs for Laser Pigtails.

PM, SM, or MM Fiber

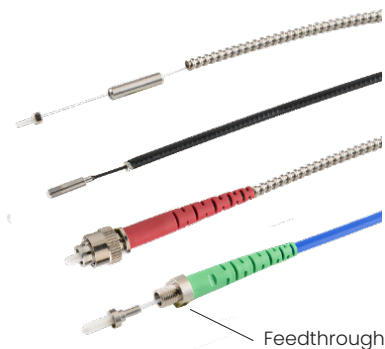


Unique Pigtails:

- Long Life, 405nm, Polarization Maintaining Pigtails
- Steel Jacketed, High Power Pigtails for Aircraft
- End-Capped LMA Fiber Pigtails
- MID-IR Laser Pigtails

Measurement Available:

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



Connectors

Connectors	E-2000	FC QFC	LC	MU	SC	SMA	ST	1.25mm Ferrule	1.8mm Capillary	2.5mm Ferrule	3.2mm Ferrule
Polish	APC, UPC	APC, UPC, Angle Flat	APC, UPC	APC, UPC	APC, UPC	UPC	UPC	APC, UPC	APC, UPC	APC, UPC	APC, UPC

Other connectors available

Fibers

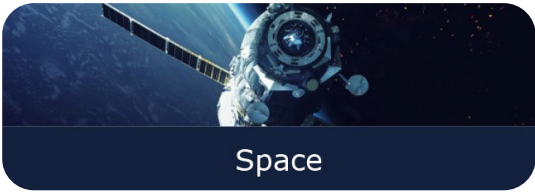
SM Fibers	320	405		460	630	780	980	1060	1300	1550	2000	LMA
PM Fibers	350	400	RGB	480	630	850	980	1060	1300	1550	1950	LMA
MM Fibers	25 SI	50 GI, SI	62.5 GI	100 GI, SI	105 SI	150 SI	200µm to 1mm SI, 0.22NA (0.37NA Available)					MID-IR

Other fibers available

Cables/Tubing

OD	900µm	1.6mm	2mm	3mm	3.8mm	5mm	5.8mm	7mm
Jacket Material	Hytrel, PVC PVDF, PTFE	PVC	PVC PVDF Polyurethane	PVC, PVDF Polyurethane Stainless	Stainless	Stainless Plastic	Stainless w/ Silicone	Stainless

Other cables available



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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.

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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.:

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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

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Contact Us

sales@impactelectronics.com
805-644-5051
www.impactelectronics.com

