

Vacuum Feedthroughs

Overview

Vacuum feedthroughs allow optical fibers to pass through a vacuum chamber's wall while maintaining a seal. Impact ES—Ventura specializes in building custom feedthroughs with multiple fibers reducing your risk of a vacuum leak. Our proprietary fiber sealing technology does not add stress to the fiber allowing for sealing on bend sensitive fibers. The only company in the world that sells multichannel feedthroughs with polarization maintaining fibers.



Unique Feedthroughs with:

- Proprietary fiber sealing technology
- Multiple Optical Channels
- PVDF Jacketed Cables
- Steel Jacketed Cables
- SM and PM Fibers
- Plastic Clad Fibers
- Custom Flanges

Specifications:

Temperature Range:	-70°C to 115°C
Has Worked to:	-200°C
Helium Leak Test:	1 X 10 ⁻⁶ Torr
Return Loss:	APC ≥65dB, UPC ≥45dB
Extinction Ratio:	≥24dB
Insertion Loss:	≤0.5dB

Flanges

Type	CF* (ConFlat)	KF or NW	NPT	1/2" OD SS Tubing
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Other flanges available, *2.75" Con-Flat flange is typically in stock

Fibers

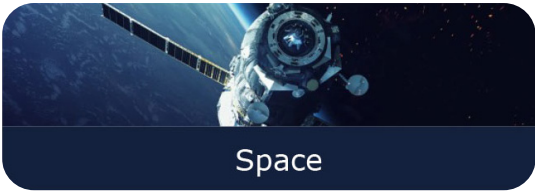
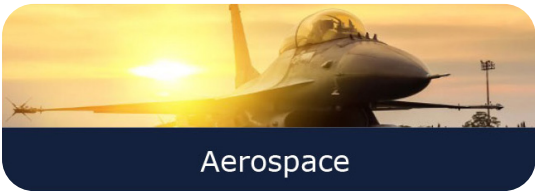
SM Fibers	320	405		460	630	780	980	1060	1300	1550	2000	LMA
PM Fibers	350	400	RGB	480	630	850	980	1060	1300	1550	1950	LMA
MM Fibers	25 SI	50 GI, SI	62.5 GI	100 GI, SI	105 to 800µm Step Index							

Other fibers available

Cables/Tubing

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

Other cables available



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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