

## Vacuum Feedthroughs

Vacuum feedthroughs allow optical fibers to pass through a vacuum chamber's wall while maintaining a seal. Coastal Connections 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:  $1 \times 10^{-6}$  Torr  
Return Loss: APC  $\geq 65$ dB, UPC  $\geq 45$ dB  
Extinction Ratio:  $\geq 24$ dB  
Insertion Loss:  $\leq 0.5$ dB



### Flanges

Other flanges available, \*2.75" Con-Flat flange is typically in stock

Type	CF* (ConFlat)	KF or NW	NPT	1/2" OD SS TUBING
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### Fibers

Other fibers available

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

### Cables / Tubing

Other cables available

OD	900um	2mm	3mm
<b>Jacket Material</b>	PVDF PTFE	PVDF	PVDF Stainless (Customer Cleaned)

Coastal Connections custom engineers and builds Vacuum Feedthroughs to your demanding specifications.