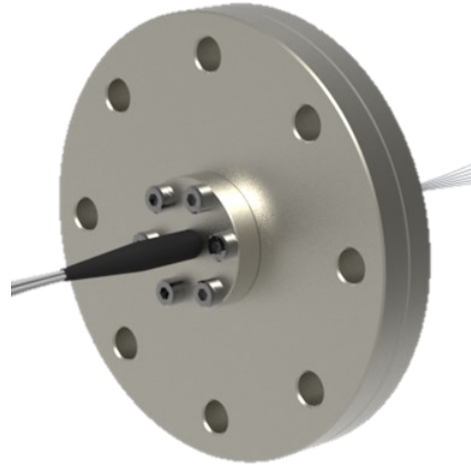




Fiber Optic Vacuum Feedthroughs



Overview

OFP's 'In-line' HVac Feedthroughs feature truly hermetic glass to glass to metal (GTGTM) sealing technology that has been proven to have superior performance and reliability over traditional resin seals in a wide range of challenging applications.

Our compact multi-fiber technology allows for up to 96 fibers to be hermetically sealed through a single vacuum flange in very high density configurations. All types of Multimode, Singlemode and PM fibers can be sealed with outstanding insertion loss and return loss performance.

The assemblies are delivered in industry standard CF flange sizes, pre-terminated and fully tested ready for direct mounting to the vessel wall. (Custom ISO and KF flange configurations are also available on request).

Features

- CF63, CF16 sizes standard. Custom flange/sealing arrangements on request
- Supplied with copper seals (specify OFHC type) & fastening bolts
- From 1F to 96F designs available
- SMF, PMF & MM fibers or mix
- Operating wavelengths from 400 nm to 2,000nm
- Ultra low insertion loss GTGTM technology with high PER on PM fibers
- Hermeticity fully FAT tested before delivery; Helium leak method or hydraulic
- Compact Hybrid optical and electrical power designs available



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Typical Specifications

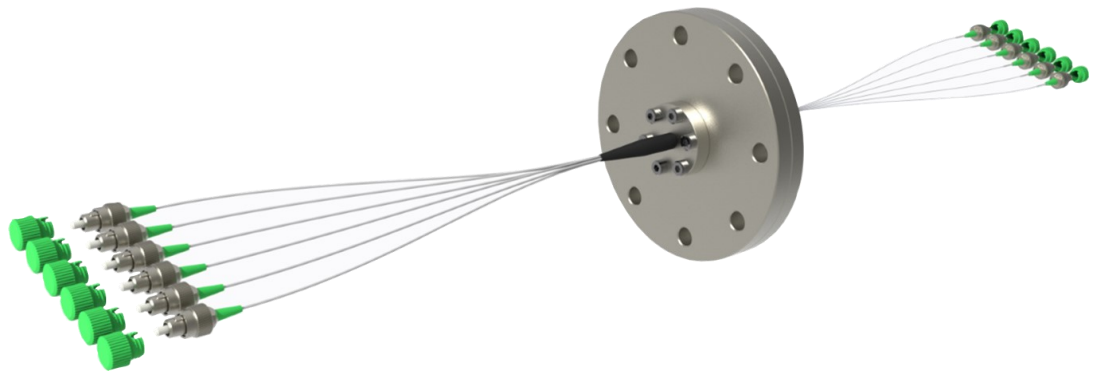
Excess loss Typical	0.05 dB—0.15 dB (780nm—1550nm) excluding pigtail connectors
Pigtail lengths	Up to 8m per side (customer specified)
Fiber types	SM, PM, Multimode — or mix in single flange. Customer specified coatings
Operating Temperatures	-40° C to +135° C
Terminations	SMA 905, FC, LC, SC, ST, MT/MPO
Standard Flange Sizes	CF 16, CF 63 (supplied with copper seals and bolts)
Flange material	Standard — 316 SS or 304 SS
Other materials	Vacuum compatible— selected for low outgassing, typically NASA rated
Fiber Count	Standard 1, 2, 4, 6, 8, 12, 16, 24, 48, 72, and 96
Hermeticity Typical	10 ⁻⁹ mbars.l/s
Fiber Protection Options	Stainless steel flexi tubing, perforated PTFE tubing, boots or customized



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