

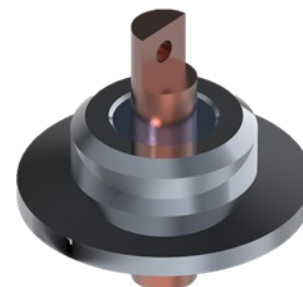
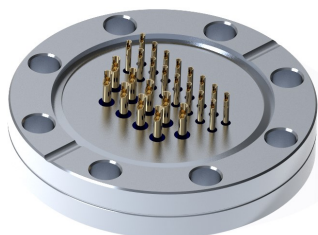


# Hermetic Electrical Feedthroughs and Connectors for Vacuum Applications



OFP's hermetic electrical products are designed for ultra-high vacuum environments enabling transmission in and out of the vacuum chamber with low outgassing rates to ensure that no sensitive equipment is damaged. The products are qualified to perform reliably from **-55° C to +300° C** allowing them to withstand aggressive environments.

These high performance penetrators, feedthroughs, and connectors are available in single and multi-pin configurations, as well as integrated into port plates and conflat (CF) flanges. OFP's experienced and agile design team offers bespoke solutions with a fast turn-around time to meet customer demands.



## Applications

- Research applications
- Medical imaging (X-Ray) systems
- Space simulation vacuum chambers
- Leak detection systems
- Mass spectrometry
- Electron microscopy

## Features

- Completely safe for UHV environments
- Cleaned/baked for practically no outgassing
- Wide operating temperatures
- Custom or industry standard designs
- Value added cabling, boots, O-rings, and custom packaging
- Hybrid electro-optical assemblies

### Optical Fiber Packaging Ltd.

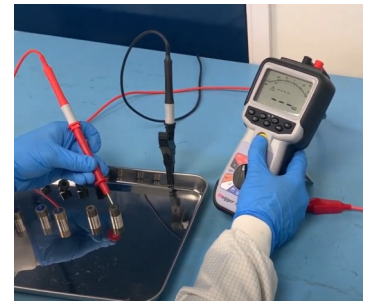
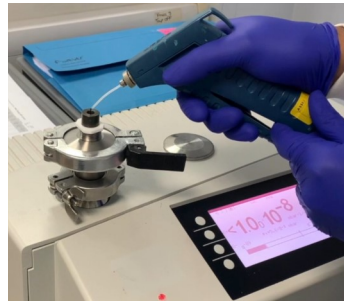
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# Hermetic Electrical Feedthroughs and Connectors for Vacuum Applications



Properties	Specifications
<b>Dimensions</b>	As required, any form factor
<b>Housing Materials</b>	Stainless steel (316L, 304L), Inconel (718, 625)
<b>Sealing Materials</b>	Soda lime and Borosilicate glasses
<b>Contact Materials</b>	Alloy 52, Copper-cored Alloy52, Kovar, Inconel (718, 625, 600)
<b>Pin Count</b>	1 - 200+
<b>Metal Finish</b>	Electropolished or Ni/Au plated
<b>Maximum Pressure</b>	Up to 40,000 psi
<b>Operating Temperature</b>	-55° C, +350° C
<b>Insulation Resistance</b>	10 G $\Omega$ at 500 V DC
<b>Dielectric Withstand</b>	Up to 2,000 V DC
<b>Leak Rates</b>	Down to 10 <sup>-9</sup> cc/sec He at 1 atm
<b>Design Lifetime</b>	25 years
<b>Environment</b>	Oil, gas, mud, salt water, etc.
<b>Connectorisation</b>	Mil-std (38999, 26482, etc.) or custom



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