

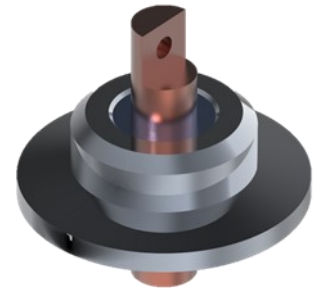
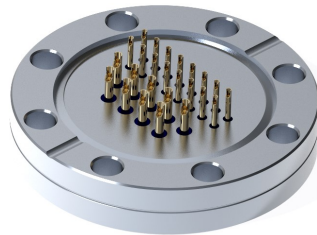


Hermetic Electrical Feedthroughs and Connectors for Vacuum Applications



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



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Hermetic Electrical Feedthroughs and Connectors for Vacuum Applications



Properties

Dimensions

Housing Materials

Sealing Materials

Contact Materials

Pin Count

Metal Finish

Maximum Pressure

Operating Temperature

Insulation Resistance

Dielectric Withstand

Leak Rates

Design Lifetime

Environment

Connectorisation

Specifications

As required, any form factor

Stainless steel (316L, 304L), Inconel (718, 625)

Soda lime and Borosilicate glasses

Alloy 52, Copper-cored Alloy52, Kovar, Inconel (718, 625, 600)

1 - 200+

Electropolished or Ni/Au plated

Up to 40,000 psi

-55° C, +350° C

10 G Ω at 500 V DC

Up to 2,000 V DC

Down to 10^{-9} cc/sec He at 1 atm

25 years

Oil, gas, mud, salt water, etc.

Mil-std (38999, 26482, etc.) or custom



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