



Hermetic Optical Feedthroughs and Assemblies

Low Melting Point Glass (LMPG) sealing is the de-facto choice for highest performance fiber hermeticity over very wide operating pressure (vacuum to 30 kpsi) and temperature (-55C; +200C) ranges. Since 2001, OFP group has shipped more than 3.5 million high reliability feedthroughs for all fiber types (SM, MM, PM, ZBL, etc.).

Single Fiber Hermetic Assemblies are used as pigtails for hermetic component packaging. They can be easily soldered into conventional packages using standard techniques. With leak rates well better than 10⁻⁹ cc-atm/sec across all operating conditions, the OFP products exceed any industry's hermeticity requirements.

Multi-Fiber Hermetic Assemblies are OFP's 'claim to fame'. Commonly used across most of markets and applications such as WSS, High-Speed Actives, Switches, Integrated Optics, they are normally configured for 2 to 24 fibers. ODM services and custom configurations are available upon request.

Applications

- Telecom/Datacom
- Aviation/Sensors
- Submarine Telecom
- Nuclear plants
- Industrial
- Medical Applications

Features

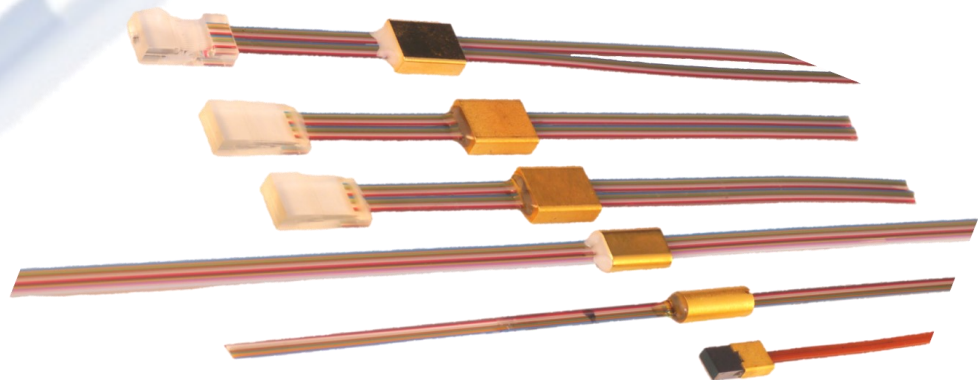
- Many standard feedthroughs available
- Wide T_{op}= -55, +200 C
- Harsh environment resistant
- Hybrid—fiber + electrical is available
- SMF, MMF, PM, Rad Hard fibers
- High optical power



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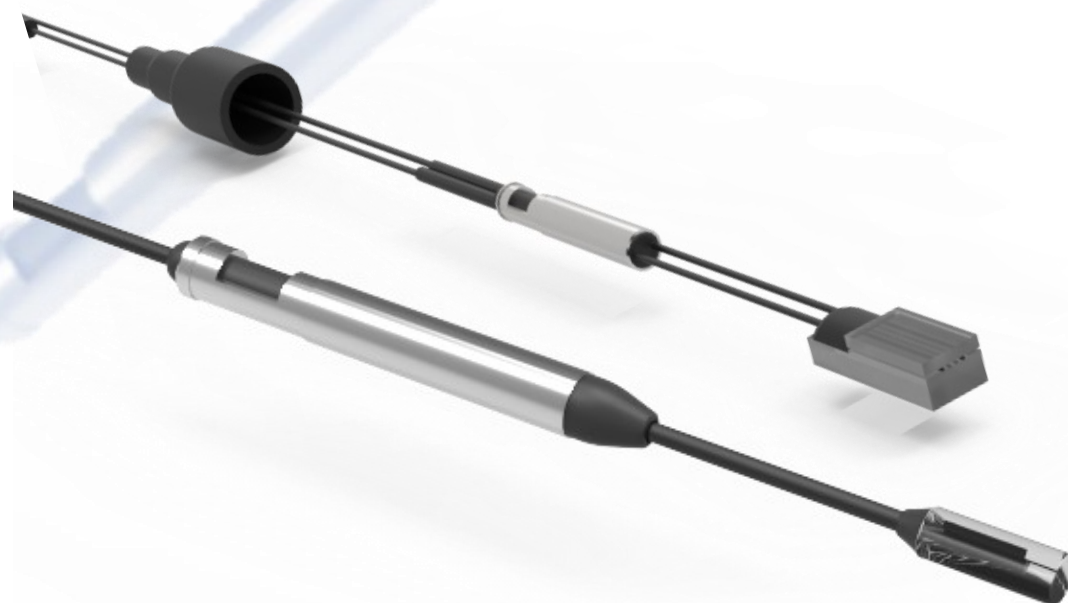
Properties	Specifications
Feedthrough Dimensions	Diameters from 0.7mm to 15 mm
Ferrule Materials	Kovar, Inconel, special alloys
Sealing Materials	Proprietary glass sealing
Metal Plating	No plating, Au, Ni/Au
Fiber Type	Any type— SMF, MMF, PM, single/ribbon
Number of Fibers per Feedthrough	1, 2, 4, 8, 12, 16, and 24
Electrical Pin Count for Hybrids	1-200
Operating Temperature	-55C, +200C
Qualification	Telcordia 1221, 1209, 468, MIL, Navy specs
Leak Rates	$<10^{-9}$ cc/s
Design Life time	25 years
Environment	Air, O&G, fuel, water, etc.
Connectorization	Any connector can be added



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