



## 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<sup>-9</sup> 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

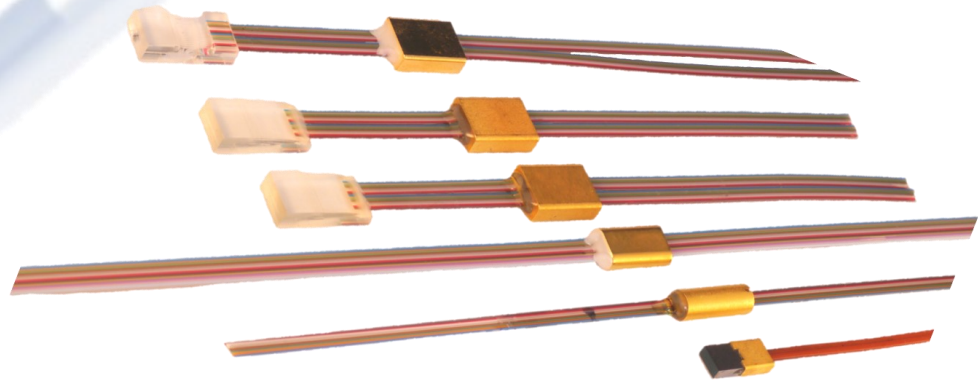
- Many standard feedthroughs available
- Wide T<sub>op</sub>= -55, +200 C
- Harsh environment resistant
- Hybrid—fiber + electrical is available
- SMF, MMF, PM, Rad Hard fibers
- High optical power



#### Optical Fiber Packaging Ltd.

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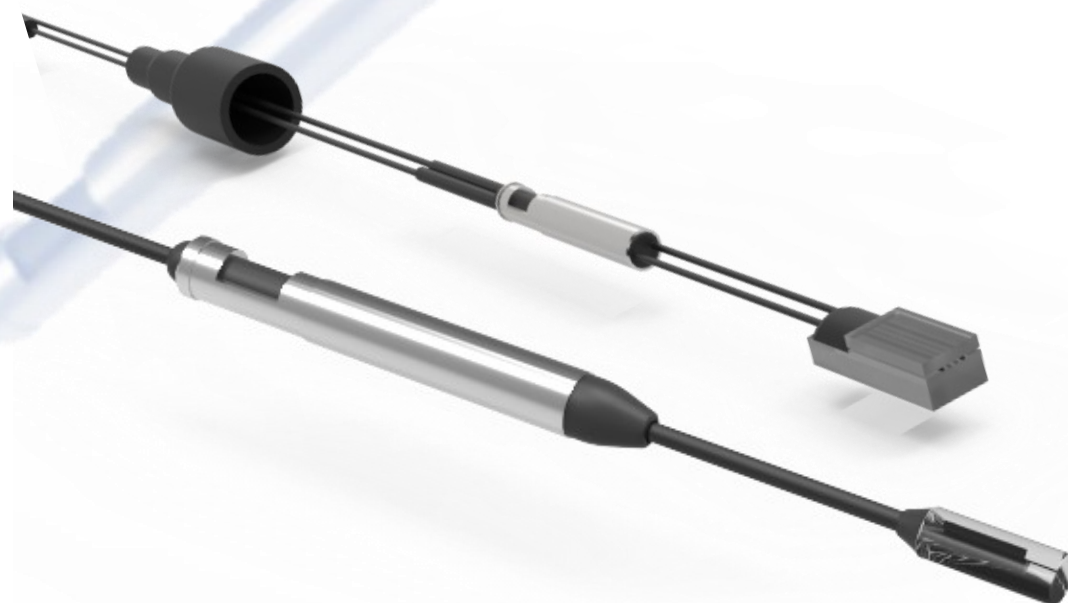
Properties	Specifications
<b>Feedthrough Dimensions</b>	Diameters from 0.7mm to 15 mm
<b>Ferrule Materials</b>	Kovar, Inconel, special alloys
<b>Sealing Materials</b>	Proprietary glass sealing
<b>Metal Plating</b>	No plating, Au, Ni/Au
<b>Fiber Type</b>	Any type— SMF, MMF, PM, single/ribbon
<b>Number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



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