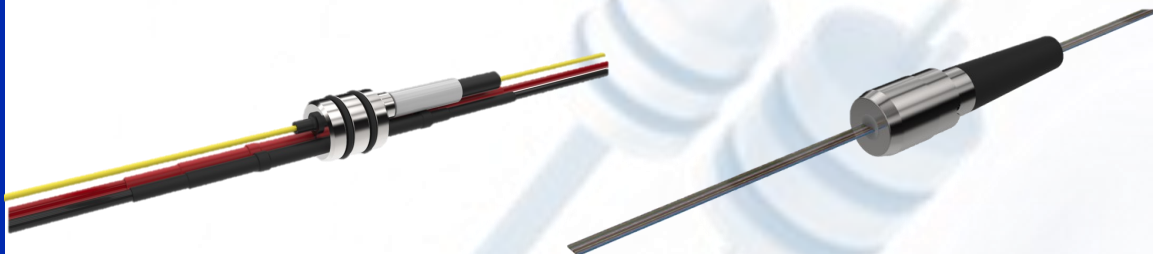




Oil and Gas Feedthroughs and Penetrators



Overview

OFP has 12+ years of experience delivering Glass-to-Metal O&G seals for high reliability well-head and downhole seal application — **FIT=0.34**

OFP are specialists in fiber optic seals for the most extreme environments on Earth.

All undersea and downhole penetrator products are engineered to withstand life-time exposure to aggressive media such as oil, mud, chemicals and salt water.

Key Features

- Less than 0.25 dB IL and no ORL penalty
- From 1 to 24 fibers in a single feedthrough
- Swagelok, O-ring, C-ring, or welded mounting
- -55C, +204C, up to 30,000 psi operation
- He leak $<1 \times 10^{-9} \text{Pa} \cdot \text{m}^3/\text{s}$
- Supplied with optical connectors or flanges
- Custom sizes, channel count, opto-electrical hybrids and flange options



Optical Fiber Packaging Ltd.

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E-mail: sales@ofpgco.com



Configuration Options

Fiber type: SMF, ZBL, MMF, HMT/XMT, PI coated

Fiber count: 1, 4, 8, 12, 16, 24 and length

Hybrid Option: Wire size, type, length, numbers

Flanges: Available with mounting options

Operating temperature range

Maximum pressure

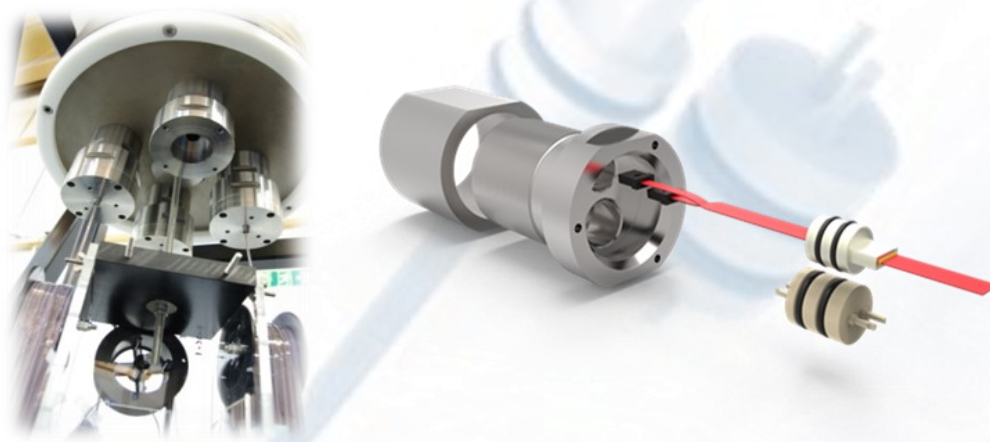
Harness lengths, cable types, ribbons, single fibers

Connectors - LC, ST, MT, Dry Mate, etc.

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Oil and Gas Feedthroughs and Penetrators



Custom Specification Options

Properties	Specifications
Dimensions	Diameter 1.5 – 20 mm, custom lengths
Materials feedthrough	Inconels, Stainless Steels, other Alloys
Materials sealing	Glass to metal compressive seals
Application	Xmas trees, Downhole, Wellhead, CM/SEM, etc.
Maximum Pressure	30,000 psi
Fiber Type	SMF-28, MMF, SMF+MMF acrylate or polyamide, single and ribbon
Fiber count (single or ribbon)	1, 4, 8, 12, 16, 24
Operating Temperature	Up to -50C, +204C
Mounting	O-ring, C-ring, Swagelok, Welding
Leak Rates	<10 ⁻⁹ atm cc/s
Design Life time	Up to 25 years
Environment	Oil, gas, mud, salt water, etc.
Connectorization	Any type, single or multi-fiber
Pull & Bend Strength	Per O&G, Seaform or MIL standards



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