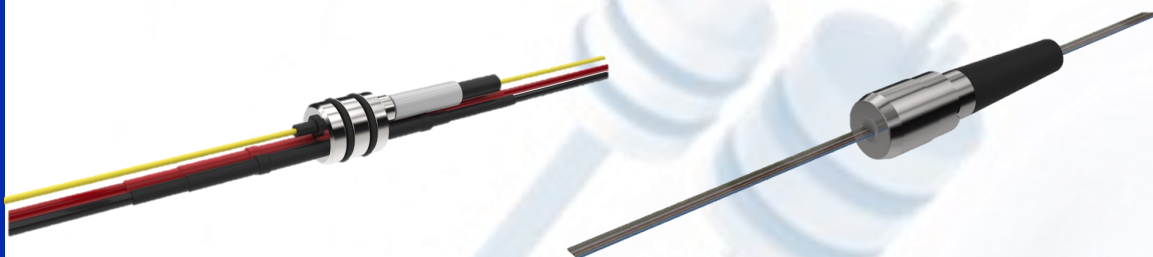




# Oil and Gas Feedthroughs and Penetrators



## 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  $<1 \times 10^{-9}$  Pa · m<sup>3</sup>/s
- Supplied with optical connectors or flanges
- Custom sizes, channel count, opto-electrical hybrids and flange options



## Optical Fiber Packaging Ltd.

Holland Centre  
Holland Road Industrial Estate  
Haverhill  
Suffolk  
England CB9 8PR UK

Phone: +44 (0) 1440-766636  
Phone: +1 909 5765854 (USA)  
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

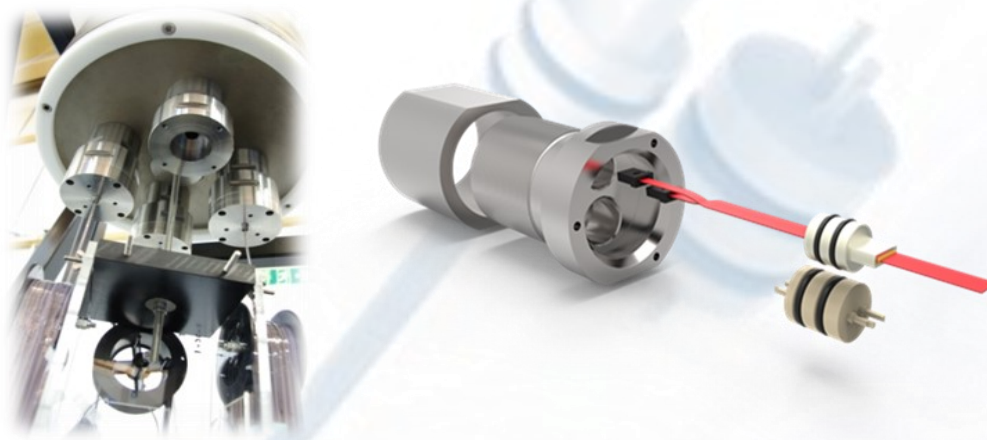
Harness lengths, cable types, ribbons, single fibers

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

[www.ofpgco.com](http://www.ofpgco.com)



# Oil and Gas Feedthroughs and Penetrators



## Custom Specification Options

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



### Optical Fiber Packaging Ltd.

Holland Centre  
Holland Road Industrial Estate  
Haverhill  
Suffolk  
England CB9 8PR UK

Phone: +44 (0) 1440-766636  
Phone: +1 909 5765854 (USA)  
E-mail: sales@ofpgco.com

[www.ofpgco.com](http://www.ofpgco.com)