



# Submarine Telecom Penetrators



## Overview

OFP has 30 years of experience delivering Glass-to-Metal subsea seals for submarine repeaters and branching unit — **FIT = 0.34**

OFP's team of engineers are specialists in fiber optic seals for the deepest deployments on Earth.

All submarine penetrator products are engineered to withstand life-time exposure to salt or fresh water.

Custom PEEK isolation components for high voltage protection.

## Key Features

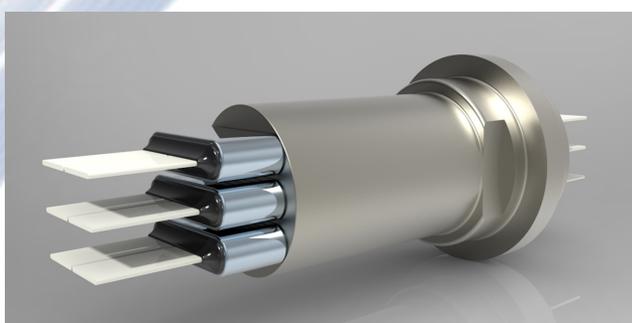
- Less than 0.15 dB IL and no ORL penalty
- From 1 to 72 fibers in a single feedthrough
- Swagelok, O-ring, C-ring, or welded mounting
- Up to 15,000 psi operation
- He leak  $<1 \times 10^{-9}$  Pa · m<sup>3</sup>/s at 82.5 MPa
- Custom sizes and flange types available



## Optical Fiber Packaging Ltd.

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## Configuration Options

Fiber types: SMF, ZBL, MMF, mixed  
Fiber count: 1, 2, 3, 4, 8, 12, 16, 24, 36, 48, 72  
Hybrid: Wire size, type, length, numbers  
Flanges: Available with mounting options

Operating/storage temperature range  
Maximum pressure  
Harness lengths, cable types, ribbons, single fibers  
Connectors - LC, ST, MT, Dry Mate, etc.

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## Custom Specification Options

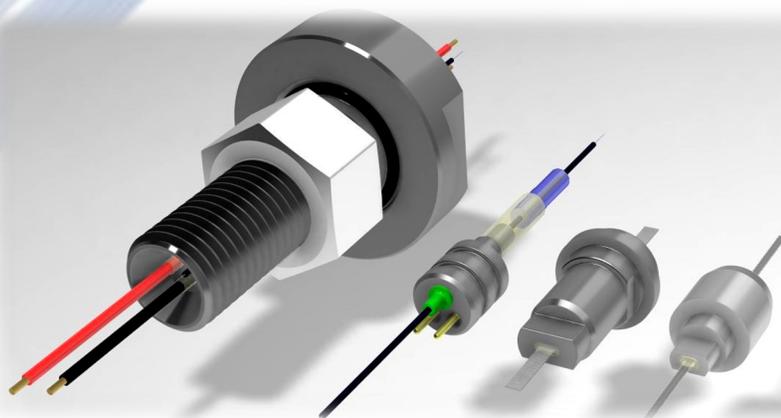
Properties	Specifications
Dimensions	Diameter up to 25 mm, custom fiber tail lengths
Materials feedthrough	Inconels, Stainless Steels, other Alloys
Fiber sealing	Glass to metal compressive seal
Application	Submarine Telco, Mil submarine
Maximum Pressure	15,000 psi
Fiber Type	SMF-28, MMF, SMF+MMF, single and ribbon
Fiber count (single or ribbon)	8, 12, 16, 24, 36, 48, 72
Operating Temperature	Typical submarine
Mounting	O-ring, C-ring, Swagelok, Welding
Leak Rates	$<10^{-9}$ atm cc/s
Design Life time	25 years
Environment	Water, Oil
Reliability	Submarine Telco and Mil standards



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