



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

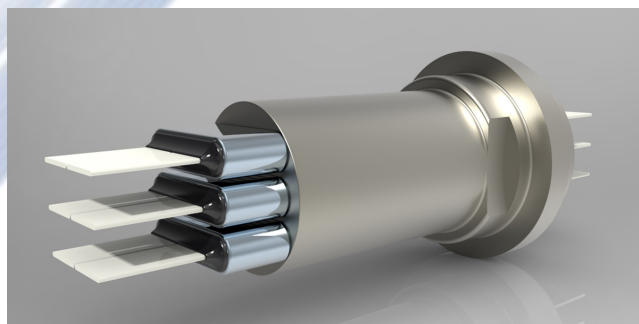
- Less than 0.15 dB IL and no ORL penalty
- From 1 to 72 fibers in a single feedthrough
- Swagelok, O-ring, C-ring, or welded mounting
- Up to 15,000 psi operation
- He leak $<1 \times 10^{-9}$ Pa · m³/s at 82.5 MPa
- Custom sizes and flange types available



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

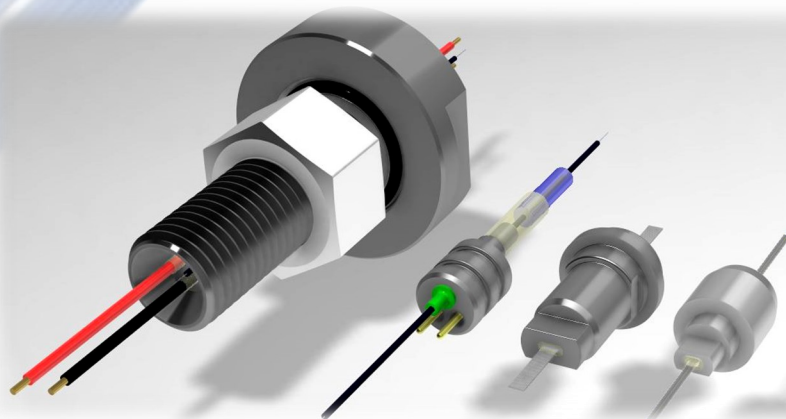
| Properties | Specifications |
|--------------------------------|---|
| Dimensions | Diameter up to 25 mm, custom fiber tail lengths |
| Materials feedthrough | Inconels, Stainless Steels, other Alloys |
| Fiber sealing | Glass to metal compressive seal |
| Application | Submarine Telco, Mil submarine |
| 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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