

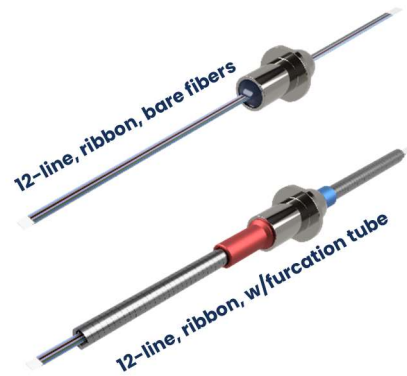
Highlights

- Harsh environment.
- Proven against the most stringent requirements.
- Modern-state-of-the-art.
- Quick prototyping & production.

ELFO

- Located in Norway.
- Small, flexible, and innovative.
- Competent on optical fiber applications.

Glass is a superior material to obtain a hermetic pressure barrier around optical fibers. Compared to other sealing materials (e.g., epoxy), glass makes a much stronger bond with both metal and optical fibers. Compared to polymers, glass is highly resistant to moisture and temperature, has low outgassing and is very stable over time. These excellent material properties along with technical expertise and modern production method put ELFO in a position to offer optical feedthroughs / penetrators for the most challenging environments and applications.



ELFO's modern-state-of-the-art production & test methods put us in a position to make quick turnaround on prototyping & production, in a highly repeatable & controlled process. We have selected to prove our ability by designing and testing penetrators to recognized industry standard API 17F.

General	Specification
Applications	Where hermetic pressure barrier around optical fibers is required
Design Life	Up to 30 years
Max. Working Pressure	5 000 psi / 345bar
Operational Temperature	-18°C to 70°C
Leak Rate (Helium)	< 1 x 10 ⁻⁸ mbar*/l/sec.
Optical Performance	Insertion Loss < 0.1 dB, Reflectance < -80 dB.
Material (body)	Titanium, Inconel (*)
Mounting (body seal)	Polymer & Metallic
Fiber Count	1 to 12 (*)
Fiber Types	SM or MM, in ribbon or loose (*)
Connectorization	Any type, LC, ST, MT, etc. as UPC or APC (*)
Fiber Protection	Configured with furcation tubing as needed or just bare fibers.

*Can be adjusted per need.