

Feed-through optical cable



Overview

Fiber optic feedthroughs are offered in many variants. They enable the flexible and highly efficient transport of optical information and signals into and out of the vacuum. A small fiber core. Thorlabs manufactures Ultra-High-Vacuum Compatible Fiber Feedthroughs for both CF Ø2.75" (DN40) and KF40 flanged systems. Each fiber feedthrough. OFP is the world's leading specialist supplier of high performance, high reliability optical feedthrough assemblies for all the leading manufacturers of commercial "submarine telecom" repeaters and branching units. Designed to withstand the deepest ocean depths while assuring more than 30 years. With OptiSeal, you can create a hybrid feedthrough harness that can combine a mixture of copper wires, fiber optic cables, thermocouples, power cables, shielded pairs, triplets, and quads; this can reduce cost and weight, while increasing reliability within your equipment or assembly. 5, 100, 200, 400, 600, and 1000 micron UV/VIS or VIS/NIR, and NIR multimode fibers. These feedthroughs are ideally suited for industrial and/or scientific research applications requiring fiber optic connections from inside a vacuum system to external. The two-fold vacuum feed-throughs made by Schäfter+Kirchhoff are equipped with two identical or two different fiber cables.



Article Content

Nov 23, 2025

Vacuum Feedthroughs

FiberTech Optica manufactures a wide range of hermetic sealed fiber optic feedthroughs, including custom feedthroughs designed

Aug 08, 2025

Fiber Optic Cables Turned Into Hidden Microphones to Secretly Spy

Fiber Optic Cables Turned Into Microphones Fiber optic cables have long been considered inherently secure communication channels resistant to RF emissions and electromagnetic

Sep 07, 2025

Fiber Vacuum Pressure Feedthroughs

The VFT series can be configured as stand-alone feedthroughs or integrated into cable assemblies as needed. The VFT series of vacuum feedthroughs are ideal

Jul 07, 2025

Vacuum Fiber Optic Feedthrough

Optical fiber vacuum feedthroughs provide a flexible optical path into a vacuum or high pressure chamber. For silica fibers the vacuum feedthrough can be

Mar 05, 2026

Thorlabs · Ultra-High-Vacuum Fiber Feedthrough Flanges

Thorlabs manufactures Ultra-High-Vacuum Compatible Fiber Feedthroughs for both CF Ø2.75" (DN40) and KF40 flanged systems. These feedthroughs allow for

Sep 03, 2025

Versatile optical fiber feedthroughs for ultra-high vacuum applications

In this article we present an investigation of three different fiber optic vacuum feedthroughs. Using Swagelok-type tube fittings, metal tubings containing the optical fibers are sealed into a

Sep 07, 2025

Fiber Optic Feedthroughs | Optical Fiber Packaging

OFP is proud to be the leading supplier of high-temperature and high-pressure fiber optic penetrators and feedthroughs to nearly every major oil and gas company

Sep 01, 2025

Optical Fiber Feedthrough for a Vacuum Chamber

In a vacuum chamber, a flange is used to feed an optical fiber through while maintaining the chamber's vacuum, enabling optical signal transmission between its interior and exterior. One

Apr 05, 2026

Fiber Optic Feedthroughs

Fiber optic feedthroughs are offered in many variants. They enable the flexible and highly efficient transport of optical information and signals into and out of the

Sep 05, 2025

Hermetically Sealed Fibre Optic Feedthroughs for

Hermetically Sealed Fibre Optic Feedthrough Hermetically sealed fibre optic feedthroughs allow optical fibres to get signals out or to bring light to the right

Oct 01, 2025

Vacuum Fiber Optic Feedthroughs | Adapter Interface

Engineered for ultra-high vacuum and positive pressure environments, our fiber optic feedthroughs are fully customizable—select your adapter interface, sealed fiber

Mar 02, 2026

Optical Fiber Feedthroughs for UHV

Special Feedthroughs At VACOM, optical fiber feedthroughs are assembled in-house. We look forward to realizing special feedthrough configurations with different kinds of optical fiber feedthroughs or

Oct 25, 2025

Hermetic Fiber Optic Feedthrough | Fiber Optic Vacuum Feedthrough ...

With OptiSeal, you can create a hybrid feedthrough harness that can combines a mixture of copper wires, fiber optic cables,

Mar 11, 2026

Fiber Optic Feedthrough

A fiber optic feedthrough offers several advantages over a copper wire feedthrough due to its high bandwidth, low electrical conduction rates, and security. In fact,

Jun 19, 2026

Fiber Optic Feedthrough

We offer fiber optic vacuum feedthroughs with single-mode and multimode fibers and customized fiber cables. If you have non-standard fibers, we can engineer a

Oct 22, 2025

Fiber Optic Feedthroughs | Optical Fiber Packaging

All of OFP's fiber optic feedthrough products such as Submarine Telecom Feedthroughs, Wellhead/Subsea Penetrators and Assemblies, Downhole HTHP

Feb 03, 2026

Pressure Fiber Optic Feedthroughs | Pigtail Interface

SQS manufactures custom fiber optic feedthroughs for demanding industrial applications. We seal SM and MM optical fibers—from UV to IR

Dec 31, 2025

Fiber Optic Feedthroughs and Cable Assemblies

These feedthroughs are ideally suited for industrial and/or scientific research applications requiring fiber optic connections from inside a vacuum system to

Jan 13, 2026

Optical Feedthroughs

LASER COMPONENTS offers a variety of hermetic feedthroughs which can be compared to a standard coupling part between two connectors. They are built with an internal fibre rod identical

Oct 07, 2025

Hermetic Feedthrough

Fiber Optic Hermetic Feedthroughs A growing number of fiber optic applications require hermetic feedthrough. The problems to be solved vary considerably from simple hermeticity to hermeticity

Aug 03, 2025

Vacuum Fiber Optic Feedthrough

Vacuum feedthrough in this case enables the passing of the entire fiber cable through the flange and allows to move the cable through the flange to adjust the

Apr 06, 2026

Feedthroughs Selection Guide: Types, Features, Applications

Feedthroughs provide inlet and outlet tubes through the walls of a pressurized or vacuum system through a hermetic seal, while maintaining the integrity of the vacuum. Different styles of

May 17, 2026

Simple feed-through for coupling optical fibres into high ...

Abstract A best practice guide for assembling and testing a simple and inexpensive system feeding an optical fibre into a high pressure and temperature environment is presented. A

Oct 16, 2025

Fiber Optic Feedthroughs

Accessories for fiber optic feedthroughs can be used to realize complete optical solutions consisting of fiber cable for the atmosphere side, feedthrough and fiber

Apr 08, 2026

Cable Feedthroughs for Sealed Protection | TE

Heat-shrinkable feedthroughs for reliable sealing protection Feedthroughs provide environmental sealing and screen continuity to a bulkhead as a cable passes

May 28, 2026

Vacuum Adapter Fiber Optic Feedthroughs

Vacuum feedthroughs with adapter interface have been designed for use in high and ultra-high vacuum, but also work in low positive pressure applications. The feedthrough assembly consist of a steel

Aug 22, 2025

KF40 two-fold vacuum feed-through for fiber cables

The two-fold vacuum feed-throughs made by Schäfter+Kirchhoff are equipped with two identical or two different fiber cables. The fibers can be polarization

Feb 13, 2026

Bulkhead and Pass / Feed Through Fiber Optic Cable

Bulkhead fiber optic adapters and new, patented cable feedthrough / pass-through adapters are available from M2 Optics for use in a variety of communications

Contact Us

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