



Optical Fiber Feedthroughs

EN

For Vacuum Applications with FSMA Connectors



- No additional adapter for the connection of the cable required
- Reproducible measurement results
- Flexible design by customizable solutions



NICHTS ist unerreich^{bar}.

Technical Data

■ Coupling	FSMA (SMA-905)
■ Insertion Loss	< 1,2 dB (400 µm 600 µm) / < 1,5 dB (200 µm)
■ Wavelength Range UV-VIS	190 to 1,100 nm
■ Wavelength Range VIS-IR	400 to 2,400 nm
■ Numerical Aperture	0.22
■ Core Diameter*	200 µm 400 µm 600 µm
■ Housing Material	Stainless steel 1.4404 (316L)
■ Ferrule Material	Ceramic (ZrO ₂)
■ Flange Systems	KF CF QCF
■ Bakeout Temperature	180 250 °C (different products available)
■ Max. Heating and Cooling Rate	3 K/min
■ Helium Leakage Rate	< 1 · 10 ⁻¹⁰ mbar l/s

* Other fiber types on request.

Accessories



Optical Fiber Cables

Optical fiber cables available in any length for the use on atmosphere or UHV side.



Bolt-style Feedthrough

Ideal solution for an easy replacement of the component in high-vacuum applications.



Custom Made Optical Fiber Feedthroughs

CF flange with 9 feedthroughs. Other custom designs on request.