

NEW

10⁻ⁿ
mbar
VACOM®

Optical Fiber Feedthroughs

EN

For High Temperature Vacuum Applications

OFD extended



- Adhesive-free hermetic sealing
- Bakeable up to 250 °C
- High robustness against radiation exposure
- High reliability
- Specification up to **VACOM®** Purity Class 4/
Vacuum Class XHV1



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Technical Data

■ Coupling	<ul style="list-style-type: none"> ■ FC/APC: 8° angled polish ■ FC/PC: 0° flat ■ FSMA/SMA-905: 0° flat 	
■ Insertion Loss	<ul style="list-style-type: none"> ■ Singlemode: e. g. < 0.8 dB (SM1310 FC) ■ Multimode: e. g. < 1.5 dB (MM400 FSMA) 	
■ Fiber Type*	Singlemode mode field diameter SM633: 4 µm; NA: 0.12 SM780: 5 µm; NA: 0.12 SM850: 6 µm; NA: 0.12 SM1064: 6 µm; NA: 0.14 SM1310: 9 µm; NA: 0.12	Multimode core diameter MM50: 50 µm; NA: 0.2 MM200: 200 µm; NA: 0.22 MM400: 400 µm; NA: 0.22 MM600: 600 µm; NA: 0.22
■ Housing Material	Stainless steel 1.4404 (316L)	
■ Ferrule Material	Ceramic (ZrO ₂)	
■ Flange Systems	KF CF QCF customer specific	
■ Bake-out Temperature	Max. 250 °C	
■ Max. Heating/Cooling Rate	3 K/min	
■ Helium Leakage Rate	< 1 · 10 ⁻¹⁰ mbar l/s	
■ Hermetic Sealing	Adhesive-free	
■ Radiation Hardness	10 MGy for 1 ½ months	
■ VACOM® Purity Classes	Up to Purity Class 4	
■ VACOM® Vacuum Classes	Up to Vacuum Class XHV 1	
■ Reliability	Proven by a large number of internal lifetime tests	

* Standard fibers and customized fiber types on request.

Accessories



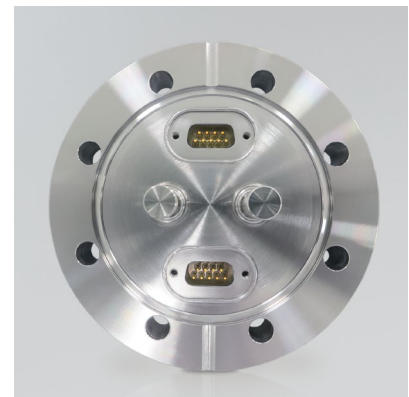
Optical Fiber Cables

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



Standard Flange

Optical fiber feedthrough in CF16 flange



Custom Made Optical Fiber Feedthroughs

Combined flange with fiber- and electrical feedthroughs