



Combined Vacuum Fiber Optic Feedthrough

Hermetic fiber optic feedthroughs with pigtail and adapter interface

Pigtailed variants of vacuum hybrid feedthroughs are available with many different optical fibers and connectors. Standard adapter interface is available with FC/PC, FC/APC or SMA905 connectors. Hybrid feedthroughs are available with pigtailed terminations on the natural air pressure side or on vacuum side. Used materials as well as the sealing process of the fiber within the feedthroughs enable the usage of hybrid feedthroughs in high and ultra-high vacuums.

Feedthrough can be disassembled and easily mounted into a flange; mating sleeves inside feedthrough on an adapter side can be easily replaced.

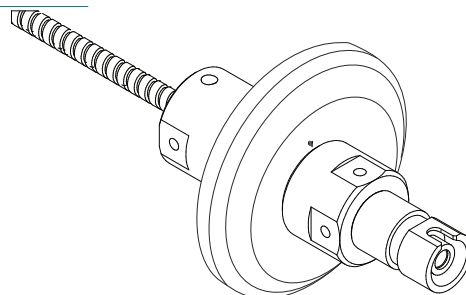
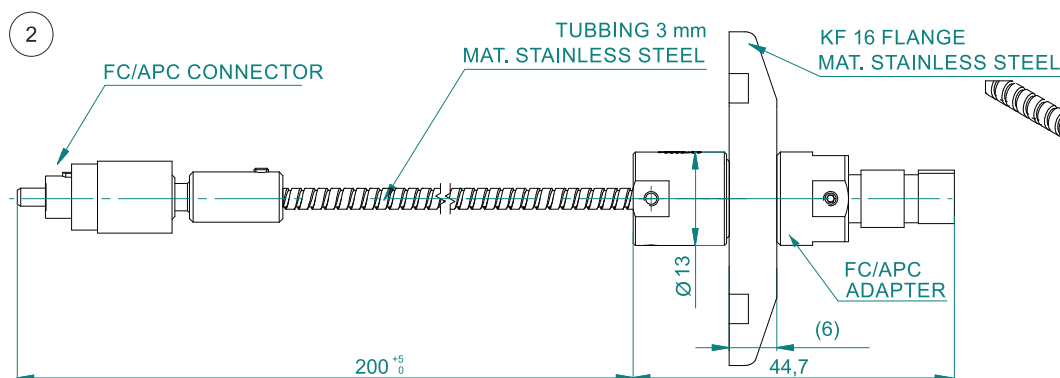
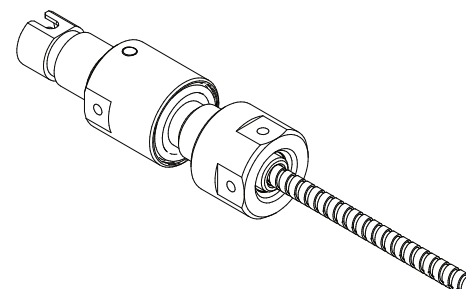
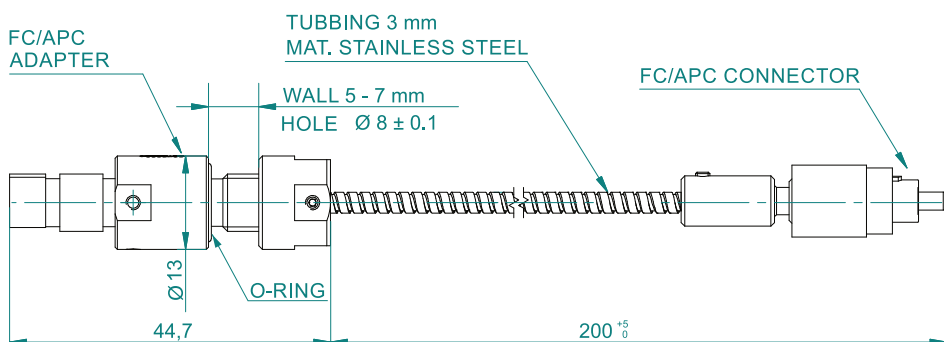


High Vacuum (HV) & Ultra High Vacuum (UHV) Feedthroughs

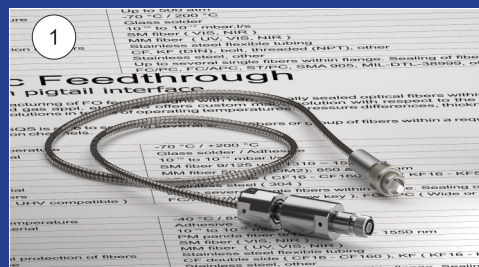
Sealed fibers	SM & MM (GRIN/STEP)	PM
Wavelength range	UV, VIS, NIR	VIS, NIR
Extinction ratio	/	>20 or > 25dB
Angle misalignment	/	± 2.5°
Operating temperature	-40 + 85°C	-20 + 70°C
Hermeticity	10 ⁻¹⁰ to 10 ⁻¹² mbar.l/s	
Flange type	CF, KF, without flange	
Flange material	304, 304L, 316L, others	
Housing material	304L, 316L	
Pigtail interface	FC/PC, FC/APC, SMA905, LC/PC, LC/APC, ...	
Adapter interface	FC/PC, FC/APC, SMA905	
Fiber sleeving (loose tubing)	PTFE (OD=900um), Stainless steel flexible tubing (O=3mm)	

1 INSPIRED BY CUSTOMERS

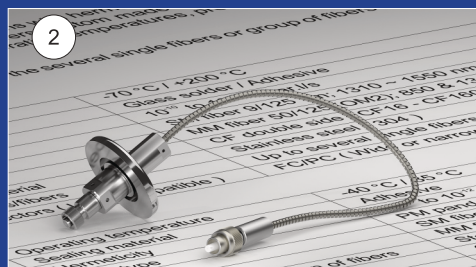
3D DRAWING



VF - 1FC01 - FC/APC



VF - 1FC01 - FC/APC - KF16



VF - 1FC01 - FC/APC - KF16

