Vacuum Feedthroughs

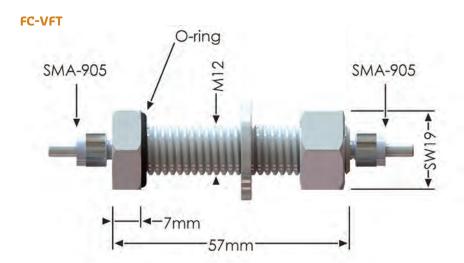
These feedthroughs are designed for the use with fiber-optics in vacuum chambers, such as for plasma and coating deposition monitoring. They can be used in chambers with wall thicknesses of 5-40 mm and vacuum levels up to 10⁻⁷ millibar.

The feedthrough assembly consists of an M12 housing with Viton® O-ring and two SMA fiber-optic interconnects to allow easy coupling to fiber-optic cables and probes. In order to connect these assemblies to fiber-optic cables inside/ outside the chamber, two extra SMA fiber interconnects (ME-FI-SM-MM) should be ordered separately.

The vacuum feedthrough can be delivered for all fiber diameters, from 50 μ m up to 1000 μ m for UV/VIS/NIR.

A high temperature version of the vacuum feedthrough(-HT) is also available enabling the device to withstand temperatures up to 200°C.





Technical Data

 Fibers
 1 fiber, diameter 50 μm, 100 μm, 200 μm, 400 μm, 600 μm, 800 μm or 1000 μm

 Wavelength range
 200-800 nm (UV/VIS), 350-2500 (VIS/NIR) or 200-2500 nm (UV/VIS/NIR)

wadelength range

Connectors Standard SMA-905 connectors (2x)

Wall thickness of vacuum chamber 5-40 mm

Vacuum Max. 10⁻⁷ mbar

Temperature -40°C to 100°C (-HT version 200°C)

Ordering Information

FC-VFT-xx50 • Vacuum feedthrough for 50 μm fibers, incl. SMA adapter, needs 2 extra SMA interconnects

FC-VFT-UVIR100 • As FC-VFT-xx50, for 100 μm broadband fibers

FC-VFT-UVIR200 • As FC-VFT-xx50, for 200 μm broadband fibers

FC-VFT-UVIR400 • As FC-VFT-xx50, for 400 μm broadband fibers

FC-VFT-UVIR600 • As FC-VFT-xx50, for 600 μm broadband fibers

FC-VFT-xx800 • As FC-VFT-xx50, for 800 μm fibers

FC-VFT-xx1000 • As FC-VFT-xx50, for 1000 μm fibers

ME-FI-SM-MM • SMA fiber interconnect, 2 pieces needed for each vacuum feedthrough

Specify xx = UV for UV/VIS fiber cables, IR for VIS/NIR

Options

-HT • High Temperature version (up to 200°C)





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