

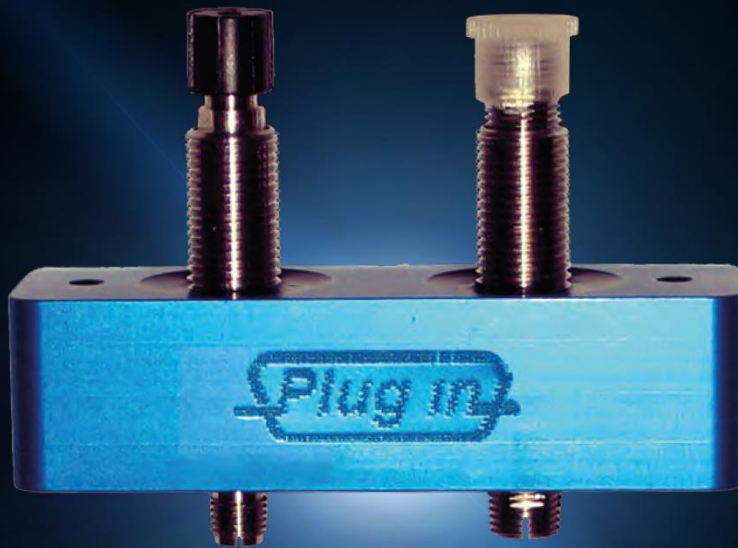


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fibres optiques

Fiber Optic Hermetic Feedthroughs

It is increasingly common for HV (High Vacuum) and UHV (Ultra High Vacuum) applications to include flanges equipped with optical fiber feedthroughs. The fibers used are as diverse as the measurements and analyses they help to carry out : Singlemode - Low wavelengths Singlemode - Polarization-maintaining - Large cores for spectrometry, and more.

Each choice of fiber leads towards a type of connector standard: Singlemode and graded index fibers (cladding 125µm) to FC/PC & FC/APC connectors, including ceramic inserts ferrules and sleeves) will provide the critical degree of accuracy. Large cores (200 to 1500 µm) to SMA connectors.



Technical specifications	ERVAC®	Optical fiber
Vacuum level		> 1.10 ⁻⁸ mbar
Leak rate		≤ than 1.10 ⁻⁸ mbar.l/s
Total Mass Loss		TML < 0,1%
Collected Volatile Condensable Material		CVCM < 0,01 %
	SMA	Comments
insertion Loss	< 3 dB max. at 850nm	2 dB typ. (fiber 600µm at 850nm)
Fibers	200µm to 1000µm core fiber, Low OH, High OH, solarization resistant	
	FC/PC	Comments
insertion Loss	< 1 dB max. at 1550nm	0,3 dB typ. (fiber SMF28e at 1550nm)
Fibers	Singlemode, GI50/125, GI62,5/125, LCH50/125, LCH105/125	

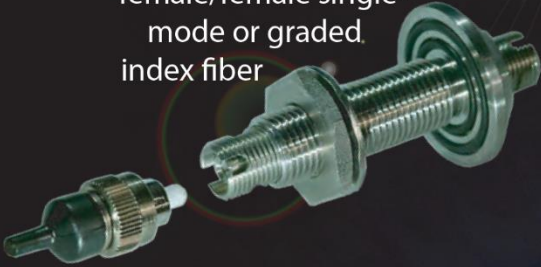




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Fiber Optic Hermetic Feedthroughs

FC/PC feedthrough female/female single-mode or graded index fiber



In line feedthrough up to 37 channels 900µm jacket



SMA feedthrough (male/male) large core fiber (200 to 1000µm)



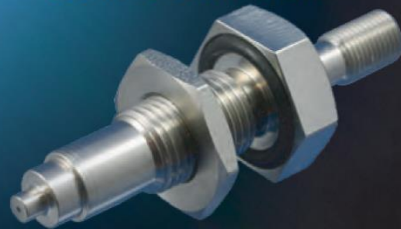
FC/APC feedthrough male/male single-mode fiber



FC/PC feedthrough ATEX version singlemode or graded index fiber



1000µm core fiber, SMA port one side light is directly collected in vacuum chamber



In line feedthrough 10 channels SC/PC to FC/PC

singlemode fibers, jacket 2.8mm



Custom flange 24 feedthroughs FC/PC singlemode or graded index fiber



Plug In Sarl

5, rue du corps franc du Sidobre - F-81210 ROQUECOURBE

Phone : +33 (0)563 82 50 60 - E-mail : quality@plugin.fr

Please visit our web site for our sales network

www.plugin-vacuum.com

