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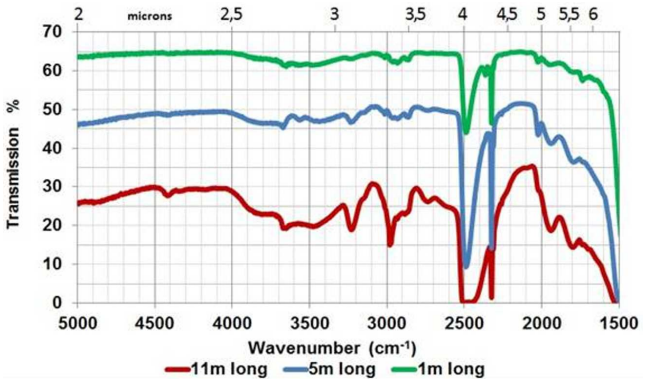
OPTICAL FIBERS

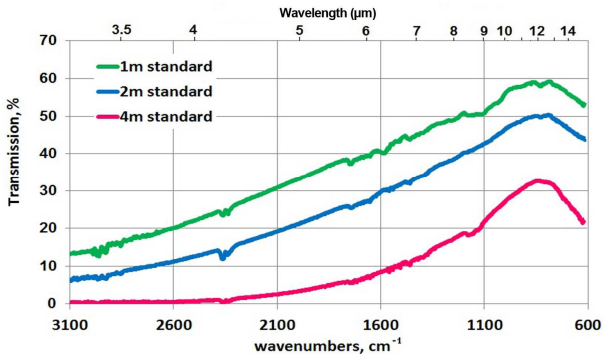
Optical fibers are a common building block of many optical systems. Low-OH fused silica multimode fibers are available for operation in the near-infrared. In the mid-infrared, we offer either chalcogenide glass fibers or polycrystalline fibers depending on the spectral range of interest. Our fibers are terminated with SMA905 connectors and are protected by a polymer jacket. Other connector types, protection jacket or lengths are available on request.

Specifications

Product code	FIB-NIR-600-100	FIB-CIR-500-100	FIB-PIR-900-100
Spectral range [µm]	0.4-2.5	2.0-5.5	4-16
Spectra range [cm^{-1}]	4’000-25’000	1’600-5’000	650-2’500
Fiber material	Low-OH fused silica	Chalcogenide glass	Polycrystalline
Core diameter [µm]	600	500	900
Glass refractive index	1.44	2.4	2.15
NA	0.22	0.28	0.25
Maximum operating temperature [°C]	125	100	140
Minimum bending radius [mm]	100	100	130
Length [m]	1*	1*	1*



CIR fiber transmission graph



PIR fiber transmission graph

SPECIFICATIONS ARE SUBJECT TO CHANGES WITHOUT NOTICE
* other lengths available on request
Please contact info@arcoptix.com for more information.