

DATASHEET

NIR and IR optical fibers



Our FT Rocket fibered spectrometers can be used with the following NIR and IR fiber cables that Arcoptix can provide. Standard fiber connectors are SMA-905 on both sides, and the fibers are protected by a polymer jacket. Other connectors or protections are available on request.

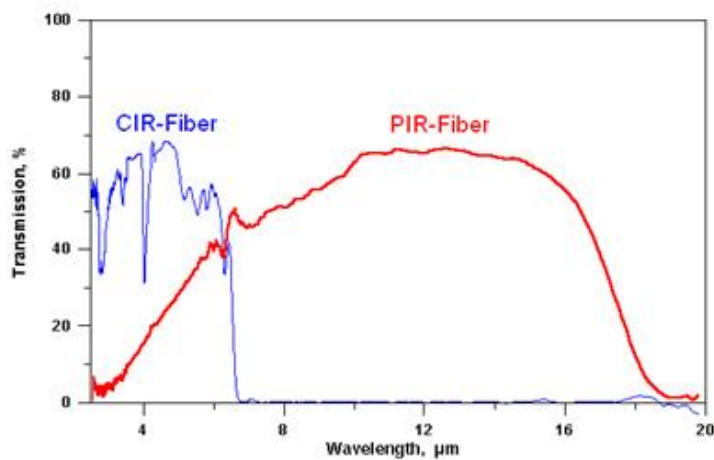
■ Specifications

	NIR	CIR	PIR
Transmission spectral range	0.4-2.6 μm (25'000-3'800 cm^{-1})	1-6 μm (10'000-1'600 cm^{-1})	3-18 μm (3'300-550 cm^{-1})
Material	Low-OH fused silica	Chalcogenide glass	Polycrystalline glass
NA	0.22	0.28	0.25
Core diameter [μm]	600, 1000	500	900
Core refractive index	1.44	2.4	2.15
Max operating temperature	125	100	140
Minimal bending radius [mm]	100, 120	100	130
Standard lengths [m]	0.25, 0.5, 1.0	1.0	1.0

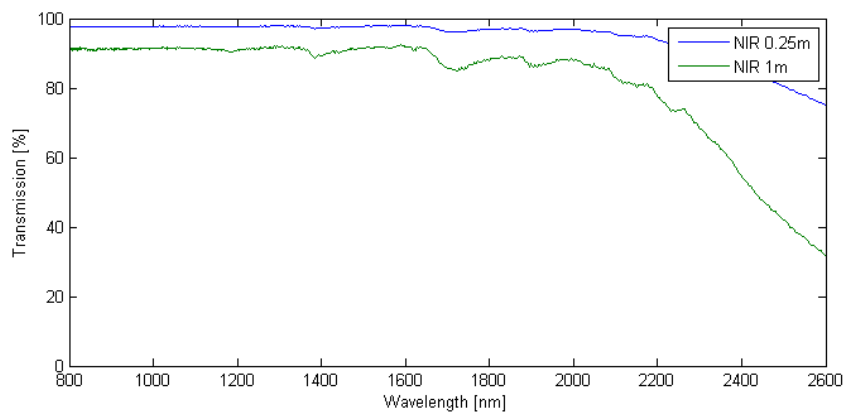
DATASHEET

■ Spectral transmission graphs

Spectral transmission of 1m long CIR and PIR fibers:

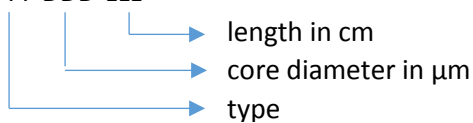


NIR fiber, 0.25m and 1m long:



■ Ordering Information

FIB-TTT-DDD-LLL



Example: FIB-CIR-500-100: Chalcogenide infrared fiber, 500 μm core diameter, length 100cm