

MID-IR FIBER COLLIMATORS

MID-IR Collimators for SMA Connectors (2 μm to 12 μm)

The same AR-AR coated ZnSe micro-lens used in our **Mid-IR Focusing Objectives** (see page 11) is used in our **Mid-IR Collimators**. These are designed to connect to SMA connectorized IR fiber cables.

Our **Mid-IR Collimators** are focusable so as to compensate for different wavelengths. These are available “as is” or mounted in the 1-inch diameter Cell, which in turn mounts into our any 1-inch laboratory X-Y stage.



Catalog Number	Focal Length	Clear Aperture	Numerical Aperture
FCR-6- λ	6 mm	0.5 mm	0.25
FCR-12- λ	12 mm	1.0 mm	0.13
FCR-18- λ	18 mm	1.6 mm	0.08

λ : When ordering, specify wavelength for AR coatings.

A comment on Numerical Aperture...think of the NA of the fiber as a cone or a funnel...if the light rays are at an angle that is smaller than the cone angle, the light will get through the fiber.

$$2\text{NA} = d/f \quad d = \text{laser beam diameter, } f = \text{focal length of lens}$$