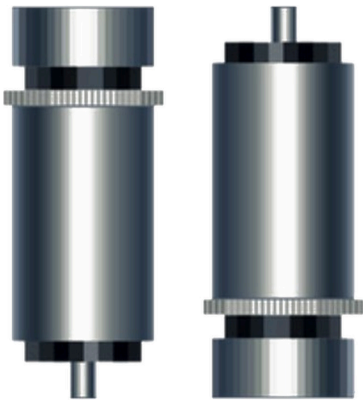


TOP® Collimators

Specification Datasheet · TopRays Optical Fiber

TOPRAYS offers a range of collimators and focusing beam-shaping devices designed for optical systems, covering a wide wavelength range. The product line includes three convenient sizes to suit fibers of different dimensions: small for fibers up to 400 μm, medium for fibers up to 800 μm, and large for larger fibers. Notably, medium and large collimators and focusing devices are fully interchangeable.



Lens Materials

Glass lenses (BK-7): made of high-quality optical glass for applications from 350 to 2000 nm. BK-7 lenses perform stably in temperature-sensitive environments and are compatible with most chemical conditions, offering a cost-effective alternative to quartz lenses.

UV-grade fused silica lenses: for applications requiring deep-UV transmission (down to 190 nm), our UV-grade fused silica lenses perform outstandingly. They offer excellent radiation resistance and maintain strong performance in demanding conditions.

Small Dimensions

Small: lens diameter 5 mm / clear aperture 4.0 mm

Function	BK-7 lens model	Focal length (mm)	Quartz lens model	Focal length (mm)
Collimator	COL-SMA-BK7-5.0mm	N/A	COL-SMA-SIL-5.0mm	N/A
Focusing device	FD-SMA-BK7-5.0mm-F5	5	FD-SMA-SIL-5.0mm-F10	10
Focusing device	FD-SMA-BK7-5.0mm-F10	10	FD-SMA-SIL-5.0mm-F15	15
Focusing device	FD-SMA-BK7-5.0mm-F15	15	FD-SMA-SIL-5.0mm-F20	20

Medium Dimensions

Medium: lens diameter 12.7 mm / clear aperture 10.0 mm

Function	BK-7 lens model	Focal length (mm)	Quartz lens model	Focal length (mm)
Collimator	COL-SMA-BK7-12.7mm	N/A	COL-SMA-SIL-12.7mm	N/A
Focusing device	FD-SMA-BK7-12.7mm-F20	20	FD-SMA-SIL-12.7mm-F20	20
Focusing device	FD-SMA-BK7-12.7mm-F25	25	FD-SMA-SIL-12.7mm-F25	25
Focusing device	FD-SMA-BK7-12.7mm-F40	40	FD-SMA-SIL-12.7mm-F40	40

Large Dimensions

Large: lens diameter 25.4 mm / clear aperture 22.2 mm

Function	BK-7 lens model	Focal length (mm)	Quartz lens model	Focal length (mm)
Collimator	COL-SMA-BK7-25.4mm	N/A	COL-SMA-SIL-25.4mm	N/A
Focusing device	FD-SMA-BK7-25.4mm-F40	40	FD-SMA-SIL-25.4mm-F40	40
Focusing device	FD-SMA-BK7-25.4mm-F50	50	FD-SMA-SIL-25.4mm-F50	50
Focusing device	FD-SMA-BK7-25.4mm-F75	75	FD-SMA-SIL-25.4mm-F75	75

Device Dimensions

Device	Length	Diameter	Material
Small collimator	23.50 mm	6.35 mm	Stainless steel
Small focusing device	6.35 mm	6.35 mm	Stainless steel
Medium collimator	40.64 mm	19.00 mm	Anodized aluminum
Medium focusing device	12.70 mm	19.00 mm	Anodized aluminum
Large collimator	59.18 mm	31.75 mm	Anodized aluminum
Large focusing device	25.40 mm	31.75 mm	Anodized aluminum