

# ArmD™ Collimators

## For optical systems

Armadillo offers a versatile range of collimators and focusing beam-shaping devices designed for optical systems, catering to a broad spectrum of wavelengths. Our product line includes three convenient sizes to accommodate various fiber sizes: Small, suitable for fibers up to 400 microns; Medium, designed for fibers up to 800 microns; and Large, tailored for larger fibers. Notably, Medium and Large collimators and focusing devices are fully compatible with each other.

The glass lenses (BK-7) are crafted from high-quality optical glass, making them well-suited for applications spanning 350 to 2000 nm. Known for stability in temperature-sensitive environments and compatibility with most chemical conditions, BK-7 lenses present a cost-effective alternative to silica lenses.

For applications requiring deep UV transmission down to 190 nm, our ultraviolet grade fused silica lenses stand out. These lenses offer superior radiation resistance, ensuring exceptional performance in demanding scenarios.

### Physical Data

#### Large Collimator

Length	59.18 mm
Diameter	31.75 mm
Material	anodized aluminum

#### Large Focusing Device

Length	25.40 mm
Diameter	31.75 mm
Material	anodized aluminum

#### Medium Collimator

Length	40.64 mm
Diameter	19.00 mm
Material	anodized aluminum

#### Medium Focusing Device

Length	12.70 mm
Diameter	19.00 mm
Material	anodized aluminum

#### Small Collimator

Length	23.50 mm
Diameter	6.35 mm
Material	stainless steel

#### Small Focusing Device

Length	6.35 mm
Diameter	6.35
Material	stainless steel



## Specifications

Part Number	Function	Lens	Focal Length (mm)
<b>Small: 5 mm Lens Diameter / 4.0 mm Aperture</b>			
COL-SMA-BK7-5.0mm	Collimator	BK-7	N/A
FD-SMA-BK7-5.0mm-F5	Focusing Device	BK-7	5
FD-SMA-BK7-5.0mm-F10	Focusing Device	BK-7	10
FD-SMA-BK7-5.0mm-F15	Focusing Device	BK-7	15
COL-SMA-SIL-5.0mm	Collimator	Silica	N/A
FD-SMA-BK7-5.0mm-F10	Focusing Device	Silica	10
FD-SMA-BK7-5.0mm-F15	Focusing Device	Silica	15
FD-SMA-BK7-5.0mm-F20	Focusing Device	Silica	20
<b>Medium: 12.7 mm Lens Diameter / 10.0 mm Aperture</b>			
COL-SMA-BK7-12.7mm	Collimator	BK-7	N/A
FD-SMA-BK7-12.7mm-F20	Focusing Device	BK-7	20
FD-SMA-BK7-12.7mm-F25	Focusing Device	BK-7	25
FD-SMA-BK7-12.7mm-F40	Focusing Device	BK-7	40
COL-SMA-SIL-12.7mm	Collimator	Silica	N/A
FD-SMA-SIL-12.7mm-F20	Focusing Device	Silica	20
FD-SMA-SIL-12.7mm-F25	Focusing Device	Silica	25
FD-SMA-SIL-12.7mm-F40	Focusing Device	Silica	40
<b>Large: 25.4 mm lens diameter / 22.2 mm aperture</b>			
COL-SMA-BK7-25.4mm	Collimator	BK-7	N/A
FD-SMA-BK7-25.4mm-F40	Focusing Device	BK-7	40
FD-SMA-BK7-25.4mm-F50	Focusing Device	BK-7	50
FD-SMA-BK7-25.4mm-F75	Focusing Device	BK-7	75
COL-SMA-SIL-25.4mm	Collimator	Silica	N/A
FD-SMA-SIL-25.4mm-F40	Focusing Device	Silica	40
FD-SMA-SIL-25.4mm-F50	Focusing Device	Silica	50
FD-SMA-SIL-25.4mm-F75	Focusing Device	Silica	75

Notes: Collimators have SMA compatible connectors. ST or FC interfaces are available at additional cost. To order, please replace "SMA" of product code with "ST" or "FC". Example: FD-ST-SIL-25.4mm-F76

