

ArmD[®] Collimators

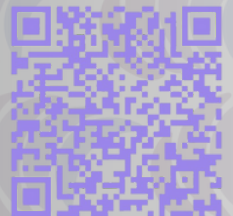
For optical systems

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.

Large Collimator		Medium Focusing Device	
Length	59.18 mm	Length	12.70 mm
Diameter	31.75 mm	Diameter	19.00 mm
Material	anodized aluminum	Material	anodized aluminum
Large Focusing Device		Small Collimator	
Length	25.40 mm	Length	23.50 mm
Diameter	31.75 mm	Diameter	6.35 mm
Material	anodized aluminum	Material	stainless steel
Medium Collimator		Small Focusing Device	
Length	40.64 mm	Length	6.35 mm
Diameter	19.00 mm	Diameter	6.35 mm
Material	anodized aluminum	Material	stainless steel



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Specifications

Small: 5 mm Lens Diameter / 4.0 mm Aperture

Part Number	Function	Lens	Focal Length (mm)
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-SIL-5.0mm-F10	Focusing Device	Silica	10
FD-SMA-SIL-5.0mm-F15	Focusing Device	Silica	15
FD-SMA-SIL-5.0mm-F20	Focusing Device	Silica	20

Medium: 12.7 mm Lens Diameter / 10.0 mm Aperture

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

Large: 25.4 mm Lens Diameter / 22.2 mm Aperture

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



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