



# Single and Dual Multimode Fiber Collimator

ACP's multimode fiber collimator is a compact optical device that aligns a multimode optical fiber to a precision graded-index (GRIN) or C-lens, producing a collimated output beam from the collimator lens.

All AC Photonics' products are Telcordia qualification tested.

## PERFORMANCE SPECIFICATIONS

Parameter	Specifications	
Operating Wavelength	850±30, 1310±30, 1550±30, 1310/1550±30 and 850/1310±30nm	
Number of Fiber	Single Fiber	Dual Fiber
Transmission Insertion Loss	≤ 1.0dB (Single window) <sup>1)</sup> ≤ 1.2dB (Dual window) <sup>1)</sup>	≤ 1.0dB (Single window) <sup>1)</sup> ≤ 1.2dB (Dual window) <sup>1)</sup>
Reflection Loss between two Fibers	-	≤ 1.0dB (Single window) <sup>2)</sup> ≤ 1.2dB (Dual window) <sup>2)</sup>
Return Loss	≥ 30dB	
Beam Diameter	≤ 1.0mm <sup>3)</sup> (Φ1.8mm Lens) ≤ 0.60mm <sup>3)</sup> (Φ1.0mm Lens)	
Operating Temperature	- 20 to +75°C	
Storage Temperature	- 40 to +85°C	
Package Dimensions	Φ1.8(OD) Lens (Standard): A=4x10mm Gold plated SS tube B=3.2x10mm Gold plated SS tube C=2.4x10mm SS tube (Gold plated optional) D=2.78x10mm Glass tube or custom size  Φ1.0(OD) Lens (Min-size): E=2.8x10mm SS tube (Gold plated optional)	

Note:

- 1) At 10mm working distance and single wavelength. Dual wavelength IL will increase by 0.2 dB.
- 2) At front focal length as reflection working distance (RWD) and single wavelength with 100% reflection mirror.
- 3) It will be different for different multimode laser sources.

All values referenced are without connector.

## FEATURES

- Low Insertion loss
- Low Back Reflection
- High Environmental Stability
- Wide Operating Wavelength
- Compact Size
- Excellent Environmental Mechanical Stability

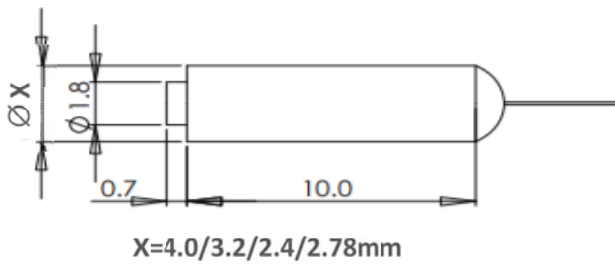
## APPLICATION

- Fiberoptic Lab Use
- Laser Beam Collimating
- Fiber to Fiber Coupling
- Local Area Networks
- CATV Systems
- Subscriber Loop
- Fiberoptic Instruments

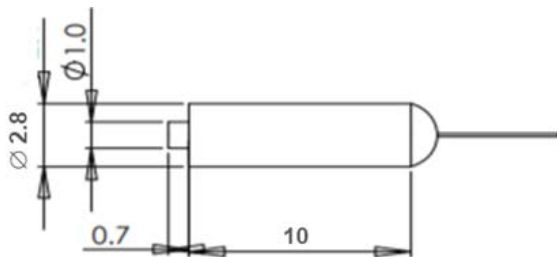
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### MECHANICAL DIMENSIONS

Package A/B/C/D



Package E



### PORT CONFIGURATION



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### ORDERING INFORMATION

MMCL	Number of fibers	Operating Wavelength	Direction	Working Distance (WD)	Package	Fiber Type	Pigtail Style	Fiber Length	Connector
	1=One	31=1310nm	None=Single fiber	01=1mm	A=4.0x10mm	A=50/125	1=Bare fiber	05=0.5m	0 = None
	2=Two	55=1550nm	T=Transmission	02=2mm	B=3.2x10mm	B=62.5/125	2=900um loose tube	10=1.0m	1 = FC/APC
		35=1310/1550nm	R=Reflection	.	C=2.4x10mm		5=1.6mm jacket	.	2 = FC/PC
				.	D=2.78x10mm		6=900um tight buffer	.	3 = SC/APC
				.	E=2.8x10mm			.	4 = SC/PC
				70=70mm				50=5.0m	5 = ST
									6 = LC/UPC
									7 = LC/APC

### RELATED PRODUCTS

[Single Mode Collimators](#)

[PM Collimators](#)