

## **Brand name or Equivalent Specifications for Fiber Optic Zoom Collimators**

Item 1: Zoom Collimator for Wavelengths 400 nm to 650 nm

Qty = 2

### **a) Thorlabs part number ZC618APC-A or equivalent**

- b) AR Coating = 400 nm to 650 nm antireflection coating on lenses
- c) Transmission  $\geq 80\%$  at 405 nm, 87% at 543 nm, 90% at 633 nm
- d) Damage Threshold  $\geq 3$  Joules/cm<sup>2</sup>
- e) Input = Optical fiber with FC/APC connector, wide key
- f) Output = Collimated beam, diameter continuously variable from 1.1 mm to 3.3 mm
- g) Output Divergence = Adjustable between collimated, converging or diverging
- h) Focal Length = Variable between 6 mm to 18 mm
- i) Wavefront Error =  $\lambda/10$
- j) Pointing Stability  $\leq 1$  milliradian during zooming
- k) Size  $\leq 79$  mm long x 30.5 mm diameter
- l) Mounting = Output end threaded with internal 0.535"-40 threads and external 1.035"-40 threads.

Item 2: Zoom Collimator for Wavelengths 650 nm to 1050 nm

Qty = 2

### **Thorlabs part number ZC618APC-B or equivalent**

- a) AR Coating = 650 nm to 1050 nm antireflection coating on lenses
- b) Transmission  $\geq 89\%$  at 780 nm, 92% at 980 nm
- c) Damage Threshold  $\geq 7.5$  Joules/cm<sup>2</sup>
- d) Input = Optical fiber with FC/APC connector, wide key
- e) Output = Collimated beam, diameter continuously variable from 1.3 mm to 3.8 mm
- f) Output Divergence = Adjustable between collimated, converging or diverging
- g) Focal Length = Variable between 6 mm to 18 mm
- h) Wavefront Error =  $\lambda/10$
- i) Pointing Stability  $\leq 1$  milliradian during zooming
- j) Size  $\leq 79$  mm long x 30.5 mm diameter
- k) Mounting = Output end threaded with internal 0.535"-40 threads and external 1.035"-40 threads.