

## **Adjustable Focus Aspheric Fiber Collimator 1050-1700nm (Focal Length 11mm Beam Waist Diameter 2.1 FC/APC)**



### ● **Product Description**

The design uses springs to assemble a suitable optical lens inside the mechanical part, which is used for the collimator output of the optical fiber beam and can also be used for fiber-to-fiber coupling. By rotating the sleeve outside the collimator, the internal optical lens can be translated forward and backward along the optical axis, thereby adjusting the distance between the lens and the end face of the optical fiber to obtain different spot sizes.



## ● Product features

Three AR-coated aspheric lens options: 350- 700nm, 650-1050nm, 1050-1620nm 、 Use with compatible connectors to achieve diffraction-limited performance 、 Alignment error during adjustment <math><15\text{mrad}</math>

## ● Part Number

MP-CLM-NIR-2.1-PA

## ● Application area

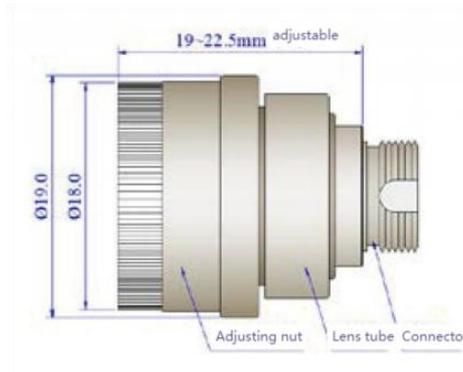
Fiber Laser Systems | Optical Communication & Sensing | Industrial Inspection | Medical Equipment | Scientific Optical Platforms

## ● Core parameters

Wavelength	Focal Length	Beam Waist Diameter
1050-1700nm	11mm	2.1



## ● Dimension Drawing



## ● General Parameters

F=4.5m Adjustable Focus Aspherical Collimator									
Focal Length	NM As Lens	Waist Diameter	Lens Coating Wavelength	Collimated Beam Far-Field Divergence Angle	Maximum Waist Distance	Input Fiber MFD	Fiber to Lens Distance	Connector Type	Transmittance
4.5m	0.54	0.86	400~700nmR<0.5%	0.045°	530mm	3.5um	2.4-4.9m	FC/PC	>90%
4.5m	0.54	0.98	650~1050nmR<0.5%	0.062°	453mm	5um	2.4-4.9m	FC/APC	

4.5m	0.54	0.87	1050~1700nmR<0.5%	0.12°	194mm	10.4um	2.4-4.9m		
<b>F=7.5m Adjustable Focus Aspherical Collimator</b>									
Focal Length	NA Lens	Waist Diameter	Lens Coating Wavelength	Collimated Beam Far-Field Divergence Angle	Maximum Waist Distance	Input Fiber MFD	Fiber to Lens Distance	Connector Type	Transmittance
7.5m	0.3	1.35	400-700nmR<0.5%	0.027°	1435mm	3.5um	4.2-6.8m	FC/P C F C/AP C	>90%
7.5m	0.3	1.6	650~1050nmR<0.5%	0.038°	1225mm	5um	4.2-6.8m		
7.5m	0.3	1.44	1050~1700nmR<0.5%	0.08°	521mm	10.4um	4.2-6.8m		
<b>F=11mm Adjustable Focus Aspherical Collimator</b>									



Focal Length	NA Lens	Waist Diameter	Lens Coating Wavelength	Collimated Beam Far-Field Divergence Angle	Maximum Waist Distance	Input Fiber MFD	Fiber to Lens Distance	Connector Type	Transmittance
11mm	0.3	1.96	400-700nm mR<0.5%	0.018°	3080mm	3.5um	8.6-10.9mm	FC/PC/APC	>90%
11mm	0.3	2.35	650~1050nm nmR<0.5%	0.026°	2631mm	5um	8.6-10.9mm		
11mm	0.3	2.1	1050-1700nm nmR<0.5%	0.055°	1115mm	10.4um	8.6-10.9mm		