

Adjustable Aspheric Fiber Optic Collimator

◆ Product introduction

The adjustable aspheric fiber optical collimator developed by CSRayzer is used to collimate the light output by the optical fiber cable of FC/APC or FC/PC connector. The aspheric lens has chromatic aberration, and its effective focal length (EFL) is related to the wavelength, which provides diffraction limit at the designed wavelength and has good achromatic effect. It is very suitable for optical fiber coupling applications. Each collimator is pre-aligned before leaving the factory, and in order to reduce surface reflection, both sides of each lens are coated with antireflection films. The collimator is compact in structure design and convenient for integration and installation. At present, it can provide typical wavelengths such as 405nm, 532nm, 543nm, 633nm, 780nm, 852nm, 980nm, 1064nm and 1550nm according to customer requirements.



◆ Parameter index

Model	Design Wavelength	Focal Distance	Waist Diameter	Waist Distance	Divergent Full Angle	Adjustable Focal Length Range
FC405-4.02-APC	405nm	4.02mm	0.63mm	≤3.56mm	≤0.05°	±0.8mm
FC460-7.5-APC	461nm	4.5mm	1.5mm	≤900mm	≤0.03°	±0.8mm
FC460-15-APC	461nm	15mm	3mm	≤900mm	≤0.02°	±0.8mm
FC460-18.4-APC	461nm	18.4mm	3.6mm	≤900mm	≤0.01°	±0.8mm
FC532-7.86-APC	532nm	7.86mm	1.48mm	≤6.96mm	≤0.02°	±0.8mm
FC633-7.93-APC	633nm	7.93mm	1.5mm	≤6.96mm	≤0.03°	±0.8mm
F698-11-APC	698nm	11mm	2mm	≤900mm	≤0.03°	±0.8mm
F698-15-APC	698nm	15mm	2.7mm	≤900mm	≤0.2°	±0.8mm
FC780-6.2-APC	780nm	6.2mm	1.2mm	≤450mm	≤0.03°	±0.8mm
FC780-12-APC	780nm	12mm	2.2mm	≤350mm	≤0.03°	±0.8mm
F813-4.5-APC	813nm	4.5mm	0.9mm	≤900mm	≤0.08°	±0.8mm
F1064-8-APC	1064nm	8mm	1.55mm	≤200mm	≤0.05°	±0.8mm
F1550-8-APC	1550nm	4.5mm	0.77mm	≤120mm	≤0.01°	±0.8mm