

Fixed Focus Aspheric Fiber Optic Collimator

◆ Product introduction

The fixed focus 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 design 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	Lens NA
FC405-4.02-APC	405nm	4.02mm	0.63mm	≤3.56mm	≤0.05°	0.6
FC460-7.5-APC	461nm	4.5mm	1.5mm	≤900mm	≤0.03°	0.25
FC460-15-APC	461nm	15mm	3mm	≤900mm	≤0.02°	0.15
FC460-18.4-APC	461nm	18.4mm	3.6mm	≤900mm	≤0.01°	0.15
FC532-7.86-APC	532nm	7.86mm	1.48mm	≤6.96mm	≤0.02°	0.51
FC633-7.93-APC	633nm	7.93mm	1.5mm	≤6.96mm	≤0.03°	0.5
F698-11-APC	698nm	11mm	2mm	≤900mm	≤0.03°	0.18
F698-15-APC	698nm	15mm	2.7mm	≤900mm	≤0.2°	0.15
FC780-6.2-APC	780nm	6.2mm	1.2mm	≤450mm	≤0.03°	0.27
FC780-12-APC	780nm	12mm	2.2mm	≤350mm	≤0.03°	0.18
F813-4.5-APC	813nm	4.5mm	0.9mm	≤900mm	≤0.08°	0.48
F1064-8-APC	1064nm	8mm	1.55mm	≤200mm	≤0.05°	0.26
F1550-8-APC	1550nm	4.5mm	0.77mm	≤120mm	≤0.01°	0.25