

5M-A4.5-03-S

Micro Focus Optics



FEATURES

Micro focus optics used for focussing the collimated radiation exiting a fiber collimator.

- Attachment optics for fiber collimators type 60FC with outer diameter Ø 12 mm
- Focal length f' = 4.5 mm
- AR Coating 1050 1550 nm
- Monochromatic correction

DESCRIPTION

The Micro Focus Optics type 5M-A4.5-03-S is used to generate a small laser spot from the collimated radiation of a fiber collimator.

The <u>size of the spot</u> and its <u>Rayleigh range</u> is determined by the fiber properties and by the focal lengths of the fiber collimator and of the micro focus optics. For single-mode fibers the Gaussian intensity distribution and beam shape are maintained.

It is designed for the fiber collimators series $\underline{60FC}$ with an outer diameter \emptyset 12 mm.

Adjustment:

In order to change the working distance of the Micro Focus Optics the lens position of the adjacent collimator has to be readjusted.

Housing material:

As standard, the housing of the Micro Focus Optics is made of nickel silver.

For amagnetic fiber collimators Schäfter+Kirchhoff offers Micro Focus Optics with housings made of titanium.

TECHNICAL DATA

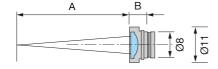
5M-A4.5-03-S

Series 5M

Order Code 5M-A4.5-03-S



Focal length	4.5 mm
Working distance A	2.5 - 2.6 mm
AR coating	03
Wavelength range	1050 - 1550 nm
Lens type	Asphere
Correction	Monochromatic
Numerical aperture	0.55
Clear aperture	Ø 5.8 mm
Outer diameter	Ø 11 mm
Length B	4.5 mm
System mount	Ø 8 mm
Front fitting	-
Housing material	Nickel silver
Weight	5 g
RoHS compliant	
Dimensions (for a complete dimensional drawing please refer to the downloads section)	



DOWNLOADS



921120249000.pdf (Dimensional drawing)



Coating-0300-01.pdf (Coating curve)



ACCESSORIES

9D-12 Screwdriver WS 1.2

RELATED PRODUCTS

MICRO FOCUS OPTICS for transforming a collimated beam into a micro focus

SERIES 5M

ATTACHMENT OPTICS

to attach in the front of collimators with system mount

SERIES 5

Ø8mm

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