

### 5M-A3.1-03-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' = 3.1 mm
- AR Coating 1050 1550 nm
- Monochromatic correction

## **DESCRIPTION**

The Micro Focus Optics type 5M-A3.1-03-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-A3.1-03-S

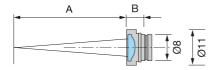
Series 5M

Order Code 5M-A3.1-03-S



Focal length	3.1 mm
Working distance A	1.6 - 1.7 mm
AR coating	03
Wavelength range	1050 - 1550 nm
Lens type	Asphere
Correction	Monochromatic
Numerical aperture	0.68
Clear aperture	Ø 5.1 mm
Outer diameter	Ø 11 mm
Length B	4.4 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** 

Ø8 mm

This is a printout of the page https://sukhamburg.com/products/details/5M-A3 1-03-S from 4/30/2024

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