### 5M-A7.5-03-S

**Micro Focus Optics** 



#### FEATURES

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

- Attachment optics for fiber collimators type <u>60FC</u> with outer diameter Ø 12 mm
- Focal length f' = 7.5 mm
- AR Coating 1050 1550 nm
- Monochromatic correction

# DESCRIPTION

The Micro Focus Optics type 5M-A7.5-03-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 <u>60FC</u> with an outer diameter Ø 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-A7.5-03-S

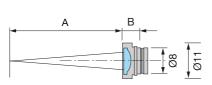
Series	5M
Order Code	5M-A7.5-03-S



# **DATA SHEET**

Focal length	7.5 mm
Working distance A	5.3 - 5.4 mm
AR coating	03
Wavelength range	1050 - 1550 nm
Lens type	Asphere
Correction	Monochromatic
Numerical aperture	0.3
Clear aperture	Ø 5.8 mm
Outer diameter	Ø 11 mm
Length B	4.61 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 SERIES 5M	for transforming a collimated beam into a micro focus spot
ATTACHMENT OPTICS SERIES 5	to attach in the front of collimators with system mount $\varnothing$ 8 mm

This is a printout of the page https://sukhamburg.com/products/details/5M-A7 5-03-S from 5/4/2024

# CONTACT

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