5M-M50-24-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' = 50 mm
- AR Coating 400 1000 nm
- Achromatic correction

DESCRIPTION

The Micro Focus Optics type 5M-M50-264-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-M50-24-S

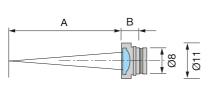
Series	5M
Order Code	5M-M50-24-S



DATA SHEET

Focal length	50 mm
Working distance A	48.3 ± 0.2 mm
AR coating	24
Wavelength range	400 - 1000 nm
Lens type	Doublet optics
Correction	Achromatic
Numerical aperture	0.05
Clear aperture	Ø 5.8 mm
Outer diameter	Ø 11 mm
Length B	4.73 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-2400-02.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-M50-24-S from 5/3/2024

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