

5M-S50-33-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 $f' = 50$ mm
- AR Coating 390 - 670 nm

DESCRIPTION

The Micro Focus Optics type 5M-S50-33-S is used to generate a small laser spot from the collimated radiation of a fiber collimator.

The [size of the spot](#) and its [Rayleigh range](#) 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 [60FC](#) 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-S50-33-S

Series

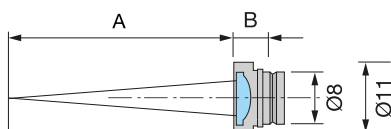
5M

Order Code

5M-S50-33-S

| | |
|--------------------|----------------|
| Focal length | 50 mm |
| Working distance A | 44 - 49 mm |
| AR coating | 33 |
| Wavelength range | 390 - 670 nm |
| Lens type | Singlet optics |
| Correction | - |
| Numerical aperture | 0.05 |
| Clear aperture | Ø 5.8 mm |
| Outer diameter | Ø 11 mm |
| Length B | 4.9 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-3308-19.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
Ø 8 mm

This is a printout of the page <https://sukhamburg.com/products/details/5M-S50-33-S> from 4/29/2024

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