

## 5M-S150-33-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  $f' = 150$  mm
- AR Coating 390 - 670 nm

## DESCRIPTION

The Micro Focus Optics type 5M-S150-33-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-S150-33-S

Series

5M

Order Code

5M-S150-33-S

|   |                |
|---|----------------|
| Focal length  | 150 mm         |
| Working distance A  | 135 - 150 mm   |
| AR coating  | 33             |
| Wavelength range  | 390 - 670 nm   |
| Lens type   | Singlet optics |
| Correction  | -              |
| Numerical aperture  | 0.019          |
| 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-S150-33-S> from 5/2/2024

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