

## 13M-S250-33-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-L](#) or [60FC-T](#) with outer diameter Ø 25 mm
- Focal length  $f' = 250$  mm
- AR Coating 390 - 670 nm

## DESCRIPTION

The Micro Focus Optics type 13M-S250-33-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-L](#) or [60FC-T](#) with an outer diameter Ø 25 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.

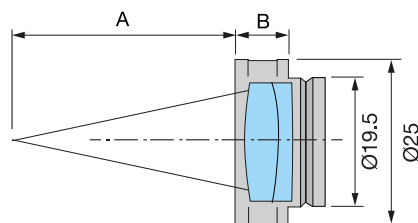
For amagnetic fiber collimators Schäfter+Kirchhoff offers Micro Focus Optics with housings made of titanium.

## TECHNICAL DATA

13M-S250-33-S

Series	13M
Order Code	13M-S250-33-S

<b>Focal length</b>	250 mm
<b>Working distance A</b>	231 - 240 mm
<b>AR coating</b>	33
<b>Wavelength range</b>	390 - 670 nm
<b>Lens type</b>	Singlet optics
<b>Correction</b>	-
<b>Numerical aperture</b>	0.03
<b>Clear aperture</b>	Ø 16 mm
<b>Outer diameter</b>	Ø 25 mm
<b>Length B</b>	8 mm
<b>System mount</b>	Ø 19.5 mm
<b>Front fitting</b>	-
<b>Housing material</b>	Nickel silver / steel
<b>Weight</b>	30 g
<b>RoHS compliant</b>	
Dimensions (for a complete dimensional drawing please refer to the downloads section)	



## DOWNLOADS



[940130018200.pdf \(Dimensional drawing\).](#)



[Coating-3308-19.pdf \(Coating curve\).](#)

## ACCESSORIES

50HD-15

Hex key WS 1.5

## RELATED PRODUCTS

**MICRO FOCUS OPTICS  
SERIES 13M**for transforming a collimated beam into a micro focus  
spot**ATTACHMENT OPTICS  
SERIES 13**to attach in the front of collimators with system mount  
Ø19.5 mm

This is a printout of the page <https://sukhamburg.com/products/details/13M-S250-33-S> from 5/6/2024

### CONTACT

For more information please contact:

Schäfter + Kirchhoff GmbH

Kieler Str. 212

22525 Hamburg

Germany

Tel: +49 40 85 39 97-0

Fax: +49 40 85 39 97-79

[info@sukhamburg.de](mailto:info@sukhamburg.de)

[www.sukhamburg.com](http://www.sukhamburg.com)

## LEGAL NOTICE

**Copyright 2020 Schäfter+Kirchhoff GmbH. All rights reserved.**

Text, image, graphic, sound, video and animation files and their arrangement on Schäfter+Kirchhoff GmbH webpages are protected by copyright and other protective laws. The content may not be copied for commercial use or reproduced, modified or used on other websites. [\[more\]](#)