

## 13M-M40-54-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  $f' = 40$  mm
- AR Coating 630 - 1080 nm
- Monochromatic correction

## DESCRIPTION

The Micro Focus Optics type 13M-M40-54-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.

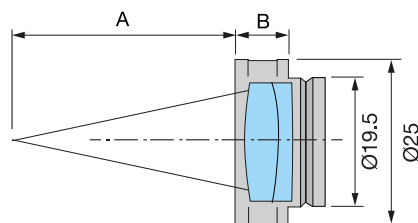
For amagnetic fiber collimators Schäfter+Kirchhoff offers Micro Focus Optics with housings made of titanium.

## TECHNICAL DATA

13M-M40-54-S

Series	13M
Order Code	13M-M40-54-S

Focal length	40 mm
Working distance A	35.5 ± 0.1 mm
AR coating	54
Wavelength range	630 - 1080 nm
Lens type	Doublet optics
Correction	Monochromatic
Numerical aperture	0.18
Clear aperture	Ø 15 mm
Outer diameter	Ø 25 mm
Length B	8 mm
System mount	Ø 19.5 mm
Front fitting	-
Housing material	Nickel silver / steel
Weight	30 g
RoHS compliant	Yes
Dimensions (for a complete dimensional drawing please refer to the downloads section)	



## DOWNLOADS



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



[Coating-5400-19.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-M40-54-S> from 5/4/2024

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