#### 5M-M20-33-S

**Micro Focus Optics** 



#### FEATURES

Micro focus optics used for focussing the collimated radiation exiting a fiber collimator.

- Attachment optics for fiber collimators type <u>60FC</u> with outer diameter Ø 12 mm
- Focal length f' = 20 mm
- AR Coating 390 670 nm
- Monochromatic correction

## DESCRIPTION

The Micro Focus Optics type 5M-M20-33-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-M20-33-S

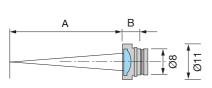
Series	5M
Order Code	5M-M20-33-S



## **DATA SHEET**

Focal length	20 mm
Working distance A	18.1 ± 0.2 mm
AR coating	33
Wavelength range	390 - 670 nm
Lens type	Doublet optics
Correction	Monochromatic
Numerical aperture	0.13
Clear aperture	Ø 5.8 mm
Outer diameter	Ø 11 mm
Length B	4.5 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 $\varnothing$ 8 mm

This is a printout of the page https://sukhamburg.com/products/details/5M-M20-33-S from 5/4/2024

## 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 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]

