

# 5M-S50-05-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' = 50 mm
- AR Coating 630 980 nm

### **DESCRIPTION**

The Micro Focus Optics type 5M-S50-05-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 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**

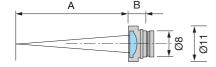
5M-S50-05-S

Series 5M

Order Code 5M-S50-05-S



Focal length	50 mm
Working distance A	48 - 50 mm
AR coating	05
Wavelength range	630 - 980 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-1000-25.pdf (Coating curve)



# **ACCESSORIES**

**9D-12** Screwdriver WS 1.2

## **RELATED PRODUCTS**

MICRO FOCUS OPTICS for transforming a collimated beam into a micro focus

SERIES 5M sp

spot

ATTACHMENT OPTICS

to attach in the front of collimators with system mount

**SERIES 5** 

Ø8 mm

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