

## Vacuum Feed-Throughs V-KF16

with multimode fiber cable

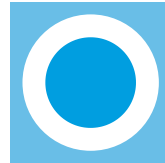


### FEATURES

Vacuum flange type KF16 with integrated fiber cable

- Based on small flange KF16 (stainless steel)
- Suitable for vacuums down to  $10^{-7}$  mbar
- Integrated multimode fiber cable MMC
- Fiber cables with core diameters  $\varnothing$  50  $\mu$ m - 600  $\mu$ m
- Different connector types

- Multi-mode fiber



## DESCRIPTION

The fiber cables with vacuum feed-through made by Schäfter+Kirchhoff are equipped with multimode fiber cables with core diameters  $\varnothing$  50  $\mu$ m - 600  $\mu$ m. The feed-throughs are suitable for vacuums down to  $10^{-7}$  mbar and are supplied with a small flange KF16 (DIN 28403 and ISO 2861, stainless steel). Maximum temperature range is -10 °C - 70 °C.

### End-to-end fiber cable

All vacuum feed-throughs are supplied with a non-exchangable, continuous, end-to-end fiber cable. That means there is no additional fiber connection (mating) at the vacuum flange.

The benefit is no additional coupling losses due to mating (especially important for small core diameters).

### Multimode fiber cable

On the vacuum side, the fiber cables are equipped with Ø 900 µm buffer made of Hytrel, Nylon or Tefzel. The part of the fiber cable outside the vacuum, has a Ø 3 mm cable with Kevlar strain-relief with bend protection both at the fiber connector and the flange.

As an option the connector can be made of [amagnetic Titanium](#) (connector type FC only).

Please refer to the individual [MMC fiber cable pages](#) for all fiber options. The connector types are described in detail [here](#).

### How to order

For a specific feed-through please [contact](#) Schäfter+Kirchhoff. We additionally need information on:

- Fiber type
- Cable length inside / outside the vacuum
- Connector type inside / outside the vacuum

An example configuration can be found [here](#).

## DOWNLOADS



[130810090701.pdf \(Dimensional drawing\)](#)

## RELATED PRODUCTS

### FIBER CABLES MMC

Multimode fiber cables

### FIBER COLLIMATOR SERIES 60FC

for collimating radiation exiting an optical fiber or as an incoupler

### FIBER COUPLER SERIES 60FC-A19.5

for coupling into multimode fiber cables

This is a printout of the page <https://sukhamburg.com/products/fiberoptics/fibercable/feedthrough/series/kf16-mm.html>  
from 4/25/2024

## 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. [\[more\]](#)