

Vacuum Feed-Throughs V-SF

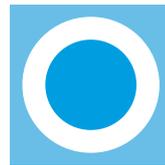
with multimode fiber cable



FEATURES

Vacuum flange type SF with integrated fiber cable

- Screw-type flange M12 x 0.75 mm (nickel silver)
- Suitable for vacuums down to 10^{-7} mbar
- Integrated multimode fiber cable MMC
- Fiber cables with core diameters \varnothing 50 μ m - 600 μ m
- Different connector types



DESCRIPTION

The fiber cables with vacuum feed-through made by Schäfter+Kirchhoff are equipped with multimode fiber cables with core diameters \varnothing 50 μ m - 600 μ m. The feed-throughs are suitable for vacuums down to 10^{-7} mbar and are supplied with a screw-type flange with thread type M12 x 0.75 mm (nickel silver). It is sealed by a Viton O-ring sealing. 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 \varnothing 900 μ m buffer made of Hytrel, Nylon or Tefzel. The part of the fiber cable outside the vacuum, has a \varnothing 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



[130810090601.pdf \(Dimensional drawing\)](#)

ACCESSORIES

POLARIZATION ANALYZER SK010PA

Measurement tool for coupling into polarization-maintaining fiber cables

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/sf-mm.html>
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