

Casing Feed-Throughs CFT

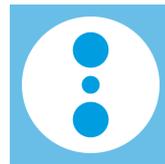
with polarization-maintaining fiber cable



FEATURES

Casing feed-through type CFT with integrated fiber cable

- For bore hole Ø 10.7 mm
- Integrated polarization-maintaining fiber cable PMC
- Fiber cables with cut-off wavelengths 360 nm - 1800 nm
- Different connector types



DESCRIPTION

The fiber cables with casing feed-through made by Schäfter+Kirchhoff are equipped with polarization-maintaining single-mode fiber cables for wavelengths from 360 to 1800 nm. The casing feed-throughs type CFT are installed by threading the outer part of the fiber cable from the inside of the casing through the through hole. They are designed for casings with a Ø 10.7 mm through hole.

End-to-end fiber cable

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

Benefits:

- No additional coupling losses due to mating (especially important for transmitting short wavelengths)
- No reduction in [Polarization Extinction Ratio \(PER\)](#) due to mating

PM fiber cable

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

The polarization-maintaining fiber cables can be equipped with [end caps](#) for reducing the power density at the fiber end-faces.

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

Please refer to the individual [PMC 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 casing
- Connector type inside / outside the casing

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

DOWNLOADS



[130810090800.pdf \(Dimensional drawing\)](#)

ACCESSORIES

POLARIZATION ANALYZER SK010PA Measurement tool for coupling into polarization-maintaining fiber cables

RELATED PRODUCTS

FIBER CABLES PMC Polarization-maintaining fiber cables

FIBER COLLIMATOR SERIES 60FC for collimating radiation exiting an optical fiber or as an incoupler

LASER BEAM COUPLERS SERIES 60SMS for coupling into single-mode and polarization-maintaining fiber cables

This is a printout of the page <https://sukhamburg.com/products/fiberoptics/fibercable/feedthrough/series/casing-pm.html> from 12/3/2022

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