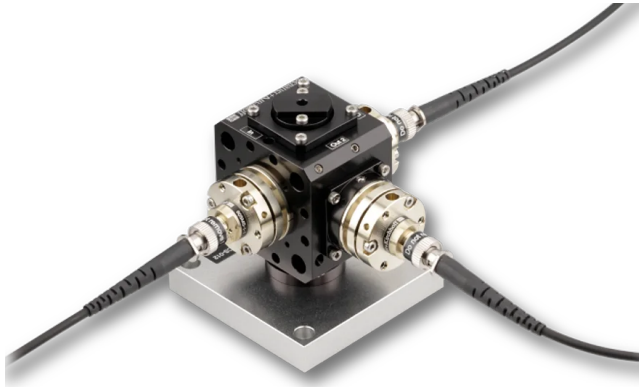


Beam Splitter 1 → 2, dichroic, 48MCS-011

Compact, rugged and highly efficient opto-mechanical unit with dichroic beam splitter



FEATURES

Beam Splitter 48MCS-011

- Configuration 1 → 2, dichroic
- Highly efficient coupling into polarization-maintaining fiber cables
- Splitting of two wavelength ranges
- Compact, rugged, transportable and sealed opto-mechanical unit
- Fully fiber-coupled
- Very high long-term stability, efficiency and reproducibility

DESCRIPTION

This fiber-coupled Beam Splitter 1 → 2, dichroic is a compact opto-mechanical unit that splits a fiber-coupled broadband source or two superimposed narrow-band sources into 2 wavelength ranges. These two wavelength ranges then are coupled into a output fiber cable, respectively, with high efficiency.

Optical Setup

The input port is fiber-coupled to a [PM fiber cable](#), or [SM fiber cable](#).

The radiation is split using a [dichroic beam splitter](#) (long pass or short pass).

Fiber Couplers

A fundamental component of fiber-coupled Beam Splitters are the [Laser Beam Couplers](#), which are the inputs into the opto-mechanical unit collimating the input radiation and, finally, couple the radiation back into the common polarization-maintaining fiber cable. The stability of the total Beam Splitter is determined by the [stability](#) of the Laser Beam Coupler.

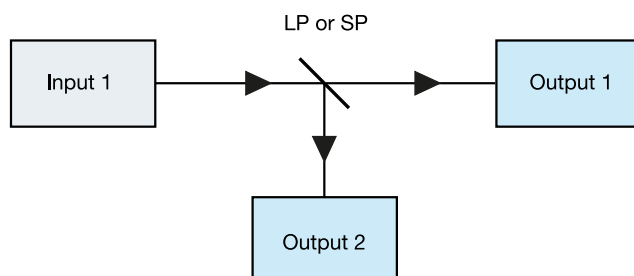
How to order

For a detailed quotation please additionally specify

- Wavelength (range) transmission
- Wavelength (range) reflection
- Receptacle type

If you need a system with fiber cables, please additionally specify

- Fiber type
- Cable lengths
- Connector types



TECHNICAL DATA

Beam Splitter 1 → 2, dichroic, 48MCS-011

Order code	48-MCS-011
Configuration	1 → 2, dichroic
Splitting	Long pass or Short pass
Available wavelengths	400 - 1700 nm
Fiber type	polarization-maintaining or single-mode
Connector type	FC APC (standard)
Cable lengths	Customer-specific
Transmission	≥ 70 % @ 780 nm
Polarization Extinction Ratio	≥ 23 dB @ 780 nm

FAQ

Compatibility of the multicube system

Is my system compatible to established 30 mm cage systems or microbench systems?

The multicube components of series 48 have a rod hole distance of 30 mm. You can attach systems based on those components easily to a 30 mm cage systems or microbench system. More information can be found [here](#).

If you are working with a system based on series 68, there are adapters available, so that they can be used with 30 mm cage systems as well.

Is my system compatible to established 60 mm cage systems?

The multicube components of series 68 have a rod hole distance of 60 mm. You can attach systems based on those components easily to a 60 mm cage systems or microbench system. More informaion can be found [here](#).

If you are working with a system based on series 48, there are adapters available, so that they can be used with 60 mm cage systems as well.

DOWNLOADS



[980129090600.pdf \(Dimensional drawing\)](#)

RELATED PRODUCTS

**FIBER PORT CLUSTER
2 → X DICHROIC**

Compact, rugged and highly efficient opto-mechanical unit for splitting/combining multiple ports

This is a printout of the page <https://sukhamburg.com/products/details/48-MCS-011> from 5/6/2024

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