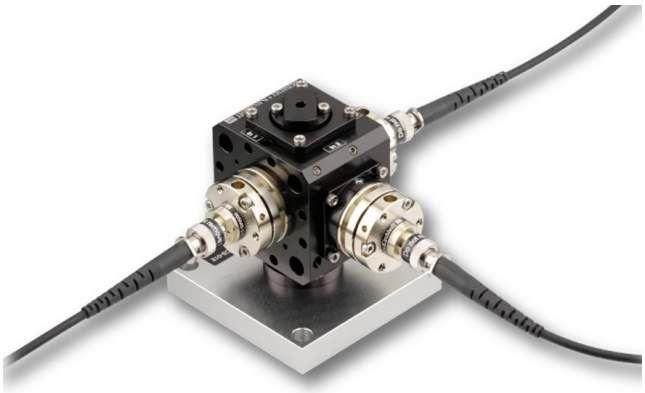
Beam Combiner 2 → 1, 48-MCS-008

Compact, rugged and highly efficient opto-mechanical unit with polarization dependent beam combiner



FEATURES

Beam Combiner 48-MCS-008

- Configuration 2 → 1
- Highly efficient coupling into polarization-maintaining fiber cables
- Superposition with normal states of polarization
- Compact, rugged, transportable and sealed opto-mechanical units
- Fully fiber-coupled
- Very high long-term stability, efficiency and reproducability

DESCRIPTION

This fiber-coupled Beam Combiner 2 → 1 is a compact opto-mechanical unit that combines 2 fiber -oupled sources into 1 output fiber cable with high efficiency.

Optical Setup
The input ports are fiber-coupled to PM fiber cables, respectively.
The radiation is superimposed by means of a polarizing beam splitter. I.e. the two sources are superimposed with normal states of polarization.

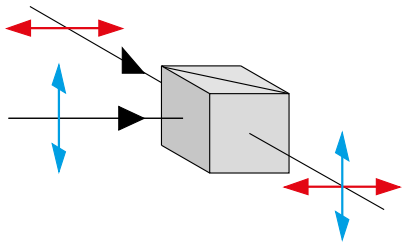
Fiber Couplers
A fundamental component of a fiber-coupled Beam Splitter are the Laser Beam Couplers, which are the inputs into the opto-mechanical unit collimating the input radiation and, finally, couples the radiation back into the common polarization-maintaining fiber cable. The stability of the total Beam Splitter is determined by the stability of the laser beam coupler.

How to order
For a detailed quotation please additionally specify

- Wavelength (range)
- Receptacle type

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

- Fiber type Output
- Cable lengths
- Connector types



TECHNICAL DATA

Beam Combiner 2 ⇾ 1, 48-MCS-008

Order code	48-MCS-008
Configuration	2 ⇾ 1
Available wavelengths	400 - 1700 nm, monochromatic
Fiber type	polarization-maintaining
Connector type	FC APC (standard)
Cable lengths	Customer-specific
Transmission	≥ 75 % @ 780 nm
Polarization Extinction Ratio	≥ 23 dB @ 780 nm

DOWNLOADS

980129090599.pdf (Dimensional drawing)

This is a printout of the page https://sukhamburg.com/products/details/48-MCS-008 from 4/29/2024

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
www.sukhamburg.com

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