

Polarizing Beam Combiner / Splitter 2 → 2, 48-MCS-026

Compact, rugged and highly efficient opto-mechanical unit with fixed splitting ratio



FEATURES

Polarizing Beam Combiner / Splitter 48-MCS-026

- Configuration 2 → 2
- Highly efficient coupling into polarization-maintaining or single-mode fiber cables
- Separates s- from p-polarization and combines s- with p-polarization
- Compact, rugged, transportable and sealed opto-mechanical unit
- Fully fiber-coupled
- Very high long-term stability, efficiency and reproducibility

DESCRIPTION

This fiber-coupled Polarizing Beam Combiner / Splitter 2 → 2 is a compact opto-mechanical unit that splits the radiation guided in the two fiber cables in 2 output fiber cables, depending on the state of polarization, respectively with a high efficiency.

Optical Setup

The input ports are fiber-coupled to two [SM fiber cables](#) or to two [PM fiber cables](#).

The radiation is split using a polarizing beam splitter cube and finally coupled again in two [SM fiber cables](#) or to two [PM fiber cables](#).

Fiber Couplers

A fundamental component of a fiber-coupled Beam Splitters 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 Polarizing Beam Splitter is determined by the [stability](#) of the Laser Beam Coupler.

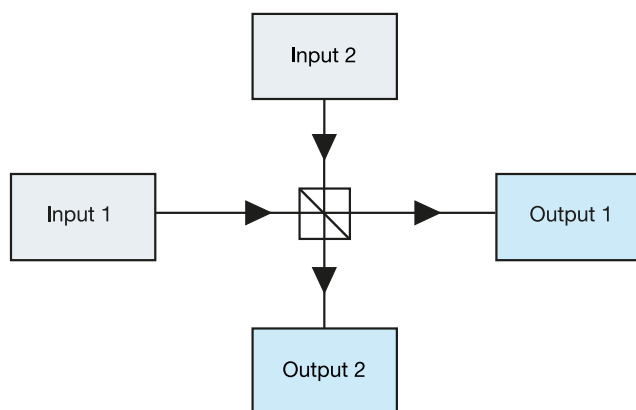
How to order

For a detailed quotation please additionally specify

- Wavelength (range)
- Receptacle type

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

- Fiber type
- Cable lengths
- Connector types



TECHNICAL DATA

Polarizing Beam Combiner / Splitter 2 → 2, 48-MCS-026

Order code	48-MCS-026
Configuration	2 → 2
Splitting Ratio	polarizing
Available wavelengths	400 - 1700 nm, monochromatic
Fiber type	polarization-maintaining or single-mode
Connector type	FC APC (standard)
Cable lengths	Customer-specific
Transmission	≥ 75 % @ 780 nm
Polarization Extinction Ratio	≥ 23 dB @ 780 nm

DOWNLOADS



[980129090608.pdf \(Dimensional drawing\).](#)

RELATED PRODUCTS

FIBER PORT CLUSTER
2 → X

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-026> from 5/5/2024

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