

## Beam Splitter 2 → 2, 48-MCS-027

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



### FEATURES

Beam Splitter 48-MCS-027

- Configuration 2 → 2
- Highly efficient coupling into polarization-maintaining or single-mode fiber cables
- Fixed splitting ratio 50 : 50
- 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 2 → 2 is a compact opto-mechanical unit that splits two fiber-coupled sources into 2 output fiber cables with a fixed splitting ratio and a high efficiency.

### Optical Setup

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

The radiation is split using a non-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 fiber cables. The stability of the total Beam Splitter is determined by the [stability](#) of the laser beam coupler.

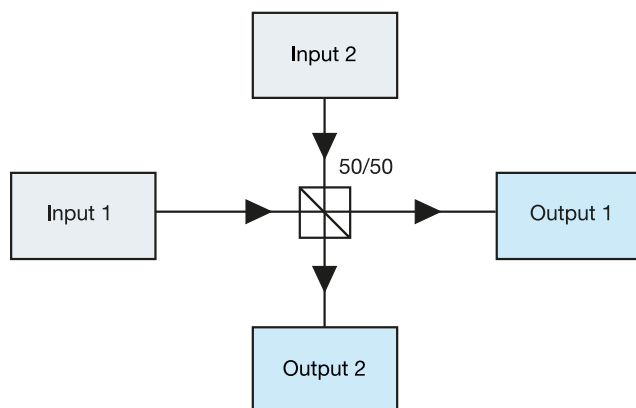
### How to order

For a detailed quotation please additionally specify

- Splitting ratio
- Wavelength (range)
- Receptacle type

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

- Fiber type
- Cable lengths
- Connector types



## TECHNICAL DATA

Beam Splitter 2 → 2, 48-MCS-027

Order code	48-MCS-027
Configuration	2 → 2
Splitting Ratio	50 : 50 (± 5 %)
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
Balancing	better 5 %

## DOWNLOADS



[980129090610\\_2.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-027> from 5/2/2024

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