

## LASOS Sales Partner Locations

Please visit [www.lasos.com](http://www.lasos.com) for contact details



**EUROPE** France  
Benelux  
United Kingdom / Ireland  
Scandinavia  
Poland  
Czech Republic

China / Hong Kong  
Japan  
Korea  
Taiwan  
India

**ASIA**

**LASOS**  
For worldwide photonics

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07745 Jena  
Germany

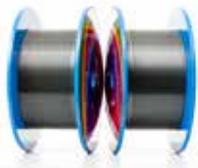
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# LASOS<sup>®</sup> Fiber series



Fiber components  
Standard assembled fibers





## Samples for available fiber coupling options

### LASOS® Fiber series

The LASOS® Fiber series offers a high degree of flexibility when a fiber coupling is desired. It provides the possibility to separate the laser light source from the application enabling compact and modular solutions in industry or research. The customers can choose from a variety of standard cables that are usually available from stock or can build a customized cable. The fibers can be used as patchcords or as a fiber delivery system in combination with the LASOS® laser series ensuring best system performance. LASOS® has a long experience in the delivery of fiber coupled laser light sources providing high efficiency and long term stability. All LASOS® laser types can be offered with appropriate fiber coupling systems.

#### Characteristics:

- Polarization-maintaining, multimode and single mode fiber cables
- Different fiber jacket options
- FC/APC, FC/PC or SMA fiber connection
- Special polishing options of the end faces
- Customized fiber lengths
- typical couple efficiencies 70% ± 10% depending on product

In addition LASOS® offers a series of optomechanical components for beam collimating, high precision, adjustment free fiber to device and fiber to fiber coupling as well as long term stable beam combining systems with precision plug system.

#### Options:

Customized design on request.

### Fixed



LASOS LDM-XT laser series with pigtail style fiber coupling (version depends on model)



LASOS DPSS laser series with Precision Fiber Coupling



LASOS He-Ne laser series with pigtail style fiber coupling (version depends on model)



LASOS Ar-Ion laser series with Precision Fiber Coupling

### Removable



LASOS LDM-XT laser series with adapter plate and common fiber coupler



LASOS LDM-XT laser series with adapter plate and LASOS Precision Fiber Coupling

### Configuration of fiber

1. Fiber Length	2. Fiber Jacket	3. Fiber output
<input type="checkbox"/> 1 m	<input type="checkbox"/> PVC (orange) <sup>1)</sup>	<input type="checkbox"/> FC <sup>1)</sup> Polish <sup>2)</sup> <input type="checkbox"/> 0° <input type="checkbox"/> 8°f <input type="checkbox"/> 8°h* <input type="checkbox"/> 8°c
<input type="checkbox"/> 2 m <sup>1)</sup>	<input type="checkbox"/> Steel reinforced silicon (grey)	<input type="checkbox"/> LASOS fiber coupler
<input type="checkbox"/> 3 m	<input type="checkbox"/> Stainless Steel	<input type="checkbox"/> Collimator D12

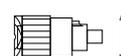
<sup>1)</sup> Standard fiber coupling for LASOS laser series (customized configuration on request).

<sup>2)</sup> f = full, h = half, c = center

input    output

← Length →

Direction of polarization (E-vector): Aligned to index key  
Other connectors on request.





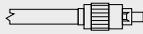
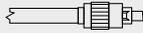
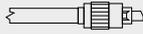
## Customized fiber patchcords



Type	Wavelength	Wavelength range	Singlemode	Polarization maintaining	Length
Single wavelength fiber	<input type="checkbox"/> 375...785 (900)	X	<input type="checkbox"/> SM	<input type="checkbox"/> PM	<input type="checkbox"/> 1 m
	<input type="checkbox"/> (375) 400...785 (900)				<input type="checkbox"/> 2 m
Broadband fiber	X	<input type="checkbox"/> 405-640	<input type="checkbox"/> SM	<input type="checkbox"/> PM	<input type="checkbox"/> 3 m
		<input type="checkbox"/> 440-670			

<sup>1)</sup> Diameter to be specified

### Configuration of patchcord

1. Fiber connector (input)	2. Fiber connector (output)	3. Polish (input)	4. Polish (output)	5. Fiber Jacket
<input type="checkbox"/> FC	<input type="checkbox"/> FC	<input type="checkbox"/> 0°	<input type="checkbox"/> 0° 	<input type="checkbox"/> PVC (orange)
<input type="checkbox"/> SMA	<input type="checkbox"/> SMA	<input type="checkbox"/> 8°f	<input type="checkbox"/> 8°f 	<input type="checkbox"/> Steel reinforced silicon (grey)
<input type="checkbox"/> LASOS Precision Plug	<input type="checkbox"/> LASOS Fiber Coupling	<input type="checkbox"/> 8°h	<input type="checkbox"/> 8°h 	<input type="checkbox"/> Stainless Steel
<input type="checkbox"/> Coupler (D12)	<input type="checkbox"/> Collimator (D12)	<input type="checkbox"/> 8°c	<input type="checkbox"/> 8°c 	

### Fiber optical components / Optomechanical components



LASOS Collimator D12  
Standard beam diameter 0.7 mm



LASOS Precision Plug and Socket



LASOS Beam combining/splitting  
- up to 6 wavelengths combined  
in one collinear beam



LASOS Precision fiber to fiber  
coupling.