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For worldwide photonics

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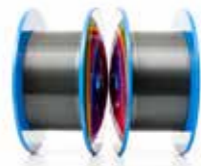
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LASOS® Fiber series



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 desirable. 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

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 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



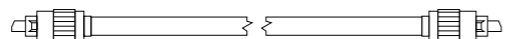
LASOS LDM-XT laser series with adapter plate and LASOS Precision Fiber Coupling

Configuration of fiber

1. Fiber Length	2. Fiber Jacket	3. Fiber output
<input type="checkbox"/> 1 m	<input type="checkbox"/> PVC (orange) ¹⁾	<input type="checkbox"/> FC ¹⁾ Polish ²⁾ <input type="checkbox"/> 0° <input type="checkbox"/> 8°f <input type="checkbox"/> 8°h* <input type="checkbox"/> 8°c
<input type="checkbox"/> 2 m ¹⁾	<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

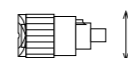
¹⁾ Standard fiber coupling for LASOS laser series (customized configuration on request).

²⁾ f = full, h = half, c = center

input  output

← Length →

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



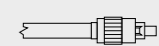



Customized fiber patchcords



Type	Wavelength	Wavelength range	Singlemode	Polarization maintaining	Multimode ¹⁾	Length
Single wavelength fiber	<input type="checkbox"/> 375...785	X	<input type="checkbox"/> SM	<input type="checkbox"/> PM	<input type="checkbox"/> MM	<input type="checkbox"/> 1 m <input type="checkbox"/> 2 m
Broadband fiber	X	<input type="checkbox"/> 375-405 <input type="checkbox"/> 405-640 <input type="checkbox"/> 440-670 <input type="checkbox"/> 458-515	<input type="checkbox"/> SM	<input type="checkbox"/> PM		<input type="checkbox"/> 3 m

¹⁾ 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.