

Couple the light of a free-beam laser into an optical fiber

ConnectFiber: Input Couplers for SM, PM, and MM Fibers

Coupling the laser light of free-beam lasers in an optical fiber with a small core diameter presents a difficult challenge. Especially when using single-mode and PM fibers, very narrow tolerances – and thus high precision – are required to ensure optimal coupling efficiency.

To create less work, LASER COMPONENTS offers the ConnectFiber fiber coupler for precisely these applications: using a mounting flange, it can be connected to the laser.

The easy-to-operate coupling optics feature excellent long-term stability and a coupling efficiency of up to 90%, which depends on individual laser parameters, for example: the wavelength (350 nm to 3000 nm), beam diameter, and mode-field diameter of the fiber to be coupled. Depending on the requirement profile, a suitable focusing lens is selected to achieve optimal transmission properties.

The fiber couplers are available on a standard basis with an FC/PC and an FC/APC connection. Further connection systems are available upon request. With a housing that is 40 mm x 40 mm x 41.5 mm in size, the ConnectFiber is particularly compact. It can be adjusted along six independent axes (2x X/Y, Z, theta).

More Information

<http://www.lasercomponents.com/de-en/product/fiber-coupler/>

Trade Shows

BiOS 2016, Feb. 13-14, 2016, Moscone Center, San Francisco, USA, **Booth 939**
Photonics West 2016, Feb. 16 - 18, Moscone Center, San Francisco, USA, **Booth 2023**
DCS 2016, Apr. 19 - 21, 2016, Baltimore Convention Center, USA
analytica, May, 10-13, 2016, Messe München, Germany **Booth, A2.500**
Sensor + Test, 10. - 12. Mai 2016, Messe Nürnberg, Germany, **Hall 1, Booth 256**

The Company

LASER COMPONENTS specializes in the development, manufacture, and sale of components and services in the laser and optoelectronics industry. At LASER COMPONENTS, we have been serving customers since 1982 with sales branches in five different countries. We have been producing in house since 1986 with production facilities in Germany, Canada, and the United States. In-house production makes up approximately half of our sales revenue. A family-run business, we have more than 200 employees worldwide.