

Fiber End-Face Processing

Fiber Tips with Ball Lenses

LASER COMPONENTS can now provide custom ball lens profiles on the end faces of silica fibers. The plasma-based CMS process with ring-off-fire technology supports fiber diameters of 200, 365, 400, 550 and 600 μm , including other diameters within the limits of the equipment. For fibers used in medical applications, end-face processing can be carried out in a clean room in accordance with ISO 13485. The entire process is also compliant to ISO 13485 hygiene requirements.

High sterile standards are important since these fibers with spherical lenses are often used in medical technology applications to optimize radiation characteristics in endoscopes for example. The rounded surface of the ball lens reduces the risk of injury during the operation whilst at the same time controlling the beam characteristics of the laser. The same type of fiber tips is also used in other applications for coupling light sources with the fiber.

LASER COMPONENTS can meet all customer demands from single fibers to small series and, upon request, we can also conduct research projects. Ball lens fibers can also be integrated into OEM products. Other fiber tip modifications are also available upon request.

More Information

www.lasercomponents.com/us/news/optical-fibers-with-ball-lenses/

Trade Shows

SPIE Optics+Photonics, August 19 - 23, 2018, San Diego, CA, USA, **Booth 527**
Photon 2018, September 04 - 05, 2018, Aston University, **Booth 5**
SPIE Security & Defense, September 11 - 13, 2018, Berlin, Germany **Stand 403**
Photonex Europe, October, 10 - 11, 2018, Ricoh Arena, Coventry, UK, **Booth D15**
Vision, November 06 - 08, 2018, Messe Stuttgart, Germany, **Booth 1G31**
electronica, November 13 - 16, 2018, Messe München, Germany, **Booth B3.524**

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 220 employees worldwide.