

inspired by
nature

increase your view

'to increase'

means to reproduce, to heighten, to intensify.

For us it describes the claim to being the technological leader in the field of fiber optics, now and in the future. We are constantly increasing our knowledge and continuously raising our own quality standards. We are intensifying cooperation with our customers from all sectors of the industry and live up to our standards at all locations worldwide: the headquarters in Rheinbach near Bonn, the branch in California, USA and the production plant in Latvia.

We conduct research, develop and produce all in one

Equipped with modern process technology and state of the art draw towers, a workforce of greater than 100 conduct research, develop and produce innovative fiberoptic products coordinated to the requirements of the various disciplines. This results in high-quality standard applications and special solutions individually tailored to our customers' requirements.

We live a communication based on trust

Honest communication based on mutual respect is important to us. This not only applies to the procedures within our group, but also to the dialogue with our customers. Ultimately, it is the short communication paths and flat hierarchies that enable fast reaction times and clever solutions, even when very special requirements are demanded of the fiber-optic products.



*LGO USA LLC
in San Jose, USA*

*LGO headquarters
in Rheinbach, Germany*

*Production facility
"Z-Light" in Lettland*



**Our expertise in fiber optics,
precisely matches your requirements**

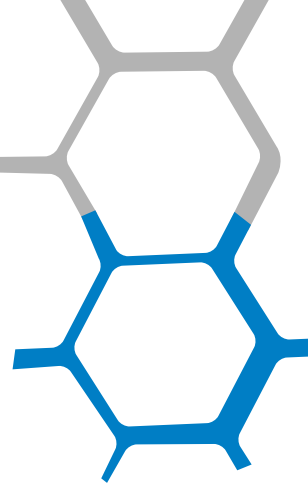
In many industrial applications, our fiber-optic technologies have already become indispensable. Successful products such as HEXAGON FUSED BUNDLES are found wherever high transmission values are required. As no adhesive is used, the application options are increased, especially in UV areas and high temperature ranges.

We develop innovative solutions and are able to draw on vast experience. We stock our fibers in countless variants, individually configuring them such that they are suited to any application you may require.

We score with ingenuity

Complicated customs formalities? Special quality management criteria? Demanding process requirements? As a modern company, we find intelligent solutions every day, which reach far beyond the actual product level.

We are ready for growth and innovation: Side by side with our customers.

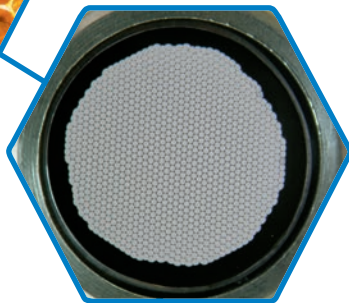
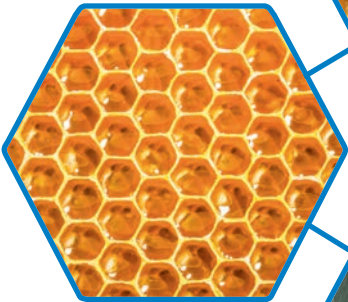


inspired by nature

With its abundance of shapes, nature is an inexhaustible source of inspiration. During the course of evolution, the honey bee, for instance, has brought the construction of its honeycomb to perfection.

The regularity of its hexagonal honeycomb cells is nature's most economic shape, and reminds us of that of crystals and molecules. We have willingly adopted the properties of the hexagon to combine the largest possible capacity with the smallest possible free space between the individual cells as the model for the development of our Hexagon Fused Bundles.

Whether the honey bee knows the necessary critical temperature between crystalline and amorphous, or the necessary surface tension is not documented in biology. But it is in our development department - in detail.



SPECIAL OPTICAL FIBERS

OPTIMIZED FOR YOUR APPLICATIONS

OPTICAL FIBERS

Suitable and optimized for your application, such as e.g.

Spectroscopy – industry and medicine

Laser applications – welding, soldering and marking

Sensors – data transmission, aircraft construction

- Quartz – quartz fibers
- Quartz – plastic fibers
- Graded index fibers
- multimode fibers
- stepindex fibers
- fused end – fiber technology



HPC–HIGH-PERFORMANCE CABLES

LGO HPC cables are suitable up to a maximum power transfer of 600 W CW. Our connectors are compatible with the systems already on the market. Furthermore, the fibers can be protected by a metal jacket with plastic sheathing.

Fields of application:


Suitable and optimized for your application, such as e.g.

Welding systems, welding equipment, transfer of laser energy, welding equipment for the jewelry industry





FIBER OPTIC CABLES AND FIBER OPTIC CABLE BUNDLES

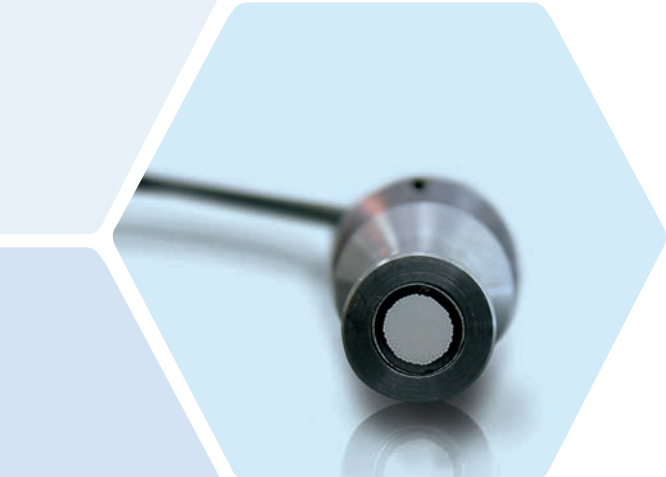


We offer you the widest variety of fiber optic cables and cable bundles and are able to provide you with special solutions made exactly to your specifications. Together we develop the best possible solution for your requirements.

We apply our vast experience to meet your requirements quickly and professionally.



HFB-HEXAGON FUSED BUNDLE



With our patented technology, we are able to eliminate the gaps and voids between the fibers. The packing density of the fiber cores is thus increased. This in turn leads to much improved transmission. As no adhesive is used, the application options are increased, especially in UV areas and high temperature ranges.

Fields of application:

Suitable and optimized for your application, such as e.g. Spectroscopy, Semiconductor industry (fault detection; wafer inspection), analytical instruments, pyrometry, sensor systems and UV curing.



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