SCHOTT is an international technology group that has been developing and producing specialized materials, components and systems that help improve people’s living and working conditions for 125 years. SCHOTT maintains a presence close to its customers with global manufacturing and sales units in all of the important markets.

The Fiber Optics division has been developing, manufacturing and marketing solutions and technologies for applications in the areas of automotive, aviation, industrial, lighting, medical technology and safety engineering for almost 50 years. For over 10 years, we have served as your partner, when it comes to fiber optic solutions in the area of lighting and data communication applications inside an automobile.

Hardly any other industry places as much importance on quality and reliability as the automotive industry. After all, the safety of both your, and therefore, our customers is at stake!

SCHOTT Fiber Optics is recognized to be an established partner for leading car companies and subcontractors to the automotive industry that places a great deal of importance on quality and reliability. And has done so in more than 10 million automobiles until today!

**Light guides:** Development and production of glasses and fiber optics, internal research on materials and innovative melting processes, enough capacity to produce 240,000 km of glass fiber per day (enough to orbit the earth 6 times)

**Light sources:** Development of light sources based on halogen and LED technologies

**Interior Lighting:** Functional and ambient lighting for interiors

**Exterior Lighting:** Optoelectronic sub-systems for head and taillights

**Datacom:** Fiber optic components for in-car infotainment
More than just a nice appearance

In times of increasing mobility, we find ourselves spending many more hours in cars. To make the time you spend as pleasant as possible, SCHOTT has developed a wide variety of lighting solutions that will turn driving into an experience.

Light guides made of glass fibers in conjunction with modern LED light sources support the trends in the area of interior design. Glass fibers are composed of a natural material. Because they are also flexible, they can be easily integrated into small installation spaces. Thanks to their excellent optical properties, they combine functional and ambient lighting into a successful overall solution.

Shedding new light on function

Rigid and flexible fiber optic light guides are ideally suited for defining the illumination of select areas inside an interior. Their directed light creates homogeneous illumination without glare for storage and glove compartments, for example.

For a clear line

The line shaped lighting of contours not only enhances the appearance, it also contributes towards better orientation inside the vehicle. The flexible SideLight developed by SCHOTT emits the light that is fed into it along the side to draw a fine and homogeneous line of light.

Light meets surface

Indirect illumination of flat surfaces underscores the quality of the materials used. Linear fiber optic light guides that focus light in a specific direction highlight textures and instill a feeling of comfort.

Let there be light

SCHOTT offers LED-based light sources that perfectly suit the light guides and the application. They combine the advantages of modern LED technology with those of fiber optics.
The outside impression counts

The products that served entirely practical purposes only a few years ago, have now become the center of attention: headlights. Today, designers have discovered the headlight as an important design element. In any case, it has long outgrown its purely functional role. Today, many different models and even entire brands identify themselves and express emotions and attributes, like speed and power, through their headlights.

It’s great to be a lighting partner who is capable of offering solutions that allow a great deal of design freedom, in addition to unique technological features.

We are flexible

We are pleased that our solutions for exterior lighting satisfy the rigid regulations for headlight constructions and yet offer our customers complete freedom of creativity. In this respect, the combination of fiber optic components and light sources represents a major advantage. Light can be flexibly guided to any area and be distributed evenly. Besides, SideLight creates outstanding light effects for contour or accentual illumination.

Even when rigid solutions are in demand

In addition to the extremely flexible glass fiber cables that are adjusted to suit the respective construction, rigid light guides made of glass are an alternative solution. These can be shaped to meet your exact needs and fit into the spaces available – the perfect technology, especially when very little space for additional components is available inside headlights.
A crystal clear connection

Nowadays, midsize and luxury class automobiles are sheer communication hubs capable of competing with many offices, when it comes to their technical features. In addition to standard offerings, like radios and CD players, even TVs, DVD and video players, GPS and Bluetooth® are often available to offer a multitude of possibilities to communicate and navigate without a lot of space.

To ensure undisturbed transmission and processing of all of this data, one needs an extremely powerful and reliable data communications system that meets the requirements of the MOST® System (Media Oriented Systems Transport).

Glass is without competition

In comparison with plastics or copper as a material for use in data communication components, glass is known for its stable performance parameters, even when it is subjected to considerable stress. Even temperatures of up to 350°C (662°F) or contact with typically occurring chemicals have no effect on this material.

We take flexibility very seriously

Glass fibers with extremely small diameters allow us to offer cable that is extremely light and flexible, yet capable of transmitting huge volumes of data.

Even in rigid components

In addition to flexible solutions, rigid components have proven themselves for applications in which short distances need to be bridged and reliable transmission of data packages is required, even despite severe strain on the material.
Technology that drives you forward

Achieving great results requires a sound foundation. Thanks to our technological expertise and many years of experience in the automotive field, we consider ourselves to be an ideal partner for your projects.

Here, you’ll benefit from the advantages of fiber optic light and data cables made of glass:

**Mechanical properties**
- High flexibility and small bending radii
- Suited for direct installation – inside interiors, for instance
- High resistance against typically occurring aggressive media
- High temperature stability

**Optical characteristics**
- High data transfer rates
- Homogeneous and even distribution of light across a distance of several meters
- No visible changes in color over distances of several meters

**Benefits for an application**
- Great freedom of design, due to their high degree of flexibility
- Lower costs, because light guide cables are manufactured without expensive tools

We develop your dreams

Developing automobiles really knows no limits! What may have been considered impossible only a few years ago is now reality and it would be difficult to imagine our streets without these developments. Working in the automotive industry means being both a pioneer and a visionary.

This is why we feel it is our job to work with you today towards developing solutions to future challenges.

Very few materials offer so many positive characteristics with such a high degree of design freedom for customer-specific flexible and rigid solutions as glass. Combined with our compact and durable LED light sources to work for you to realize your lighting visions of the future.