

# SCHOTT® Automotive MultiLight

High-quality side- and end-emitting glass fiber light guide



## Enhance your illumination. Choose proven reliability.

SCHOTT MultiLight is a **light guide harness combining contour- and spotlights within one light source**. The number and length of branches are customizable, offering a wide range of ambient, functional and reading light opportunities out of one system.

MultiLight simplifies integration and lowers maintenance by combining functionalities to accomplish your design.

### Key Features and Benefits

#### Design

- Several light guides coupled with only one light source
- Customizable outer diameter (OD >1,2mm)
- Outstanding bending radius (5x OD)
- Adaptation to diverse customer light sources possible (single color and RGB)
- High color stability over a length of several meters
- High uniformity of luminance (several grades available in order to meet application specific needs)

#### Integration & Maintenance

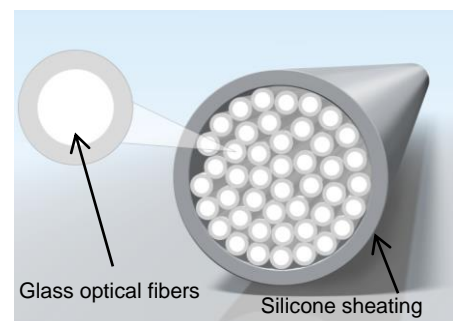
- Less complex harness routing
- Less Effort for Integration due to decreased amount of electric components
- Easy- plug and play, since MultiLights can be pressed into cavities
- No squeeze or rattle
- High mechanical strength and resistance of glass fibers foster durability and lower maintenance costs
- No additional tooling cost required
- Integration in late design-phase possible

#### Safety

- UV- and chemical resistance, outperforming standard plastic fibers
- Climate resistance up to 105°C (*higher temperatures upon request*)

### Applications

- Instrument Panel
- Door Panel
- Center Console
- Glove Box
- Map Pocket
- Other applications according to customer requests



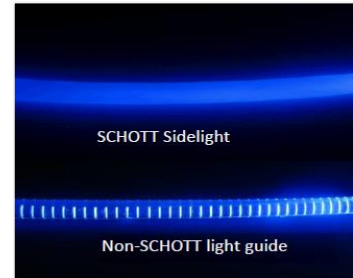
## Light guide parameter

Parameter	Typical Value	Further Information
Light guide material	Glass optical fiber bundle, plastic sheathing	Customizable
Light guide length	200mm up to 6m	Customizable
Light guide outer diameter	1,2mm up to 5,0mm	Customizable
Bending radii	~5 times outer diameter	Min. static values even below and upon request
Numeric aperture	0,48 (57°C)	50° intensity value
Color shift	<150 K/m	Customizable

## Advantages of glass fibers

Different to plastic fibers, SCHOTT glass fibers offer

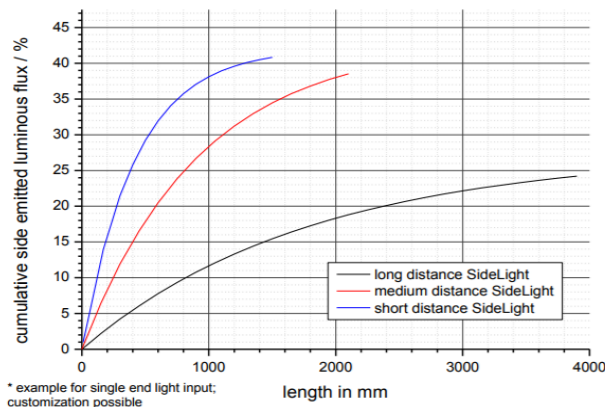
- Better homogeneity over length
- Smaller diameter
- Significantly higher temperature resistance
- Chemical resistance



## Qualifications and Tests

Test Description	Condition	Results
Temperature Cycle	50 cycles at -40°C / +105°C	☑
Temperature Resistance	+95°C/ <20% rel. humidity/ 10d	☑
Chemical Load	ISO 16750-5 : 2010 (E)	☑
VOC-, FOG, Emission-Test	According to OEM specification	☑
Xenon-Test	According to OEM specification	☑
Flammability	According to OEM specification	☑
- Full qualification report available upon request -		

## Luminance over Length



## SCHOTT- Your reliable and experienced partner

SCHOTT is a German technology company with more than 125-years of experience in glass and lighting technology. As a reliable partner for automotive applications for over 20 years, we are experienced with existing OEM standards and regulations in all automotive tier levels and design phases.

**Our Sidelights have successfully proven their quality and roadworthy in several models of leading German car manufacturers, as well as leading US and Chinese models.**

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