Beautifully safe

SCHOTT® HelioLine
Ambient contour illumination
SCHOTT is an international technology group with 130 years of experience in the areas of specialty glasses and materials and advanced technologies. With our high-quality products and intelligent solutions, we contribute to our customers’ success and make SCHOTT part of everyone’s life.

Our Business Unit SCHOTT Lighting and Imaging has been active in the area of cabin illumination since the 1990s. Especially the technological expertise in the field of optical fibers combined with LED-based light sources gives SCHOTT a competitive edge. SCHOTT® HelioLine is an innovative solution for contour lighting in aircraft cabins.
Yes, you can combine security requirements and design parameters in cabin lighting. HelioLine, the side-emitting optical fiber solution from SCHOTT, empowers you to create an atmosphere where aircraft passengers feel safeguarded and comfortable at the same time.

Beautifully safe with SCHOTT® HelioLine contour lighting

Your unique solution to connect design and functional aspects in aircraft cabins.
Discover the possibilities.

From seat-contour illumination to toe-kick, there are many areas in planes that deserve special attention. With HelioLine, you have the ability to customize your specific contour-lighting solution. The optical fiber permits use even in environments with very limited space or depth.
You can upgrade your monuments easily. With HelioLine, even small enhancements facilitate a huge difference in overall perception. HelioLine has excellent color characteristics and high light output, which goes along with an exceptional high light homogeneity. Due to the fiber optic system where a light source feeds into the glass optical fiber, you will be able to work with a non-electrical light emitter – a big safety advantage especially in working and wet areas.

Your cutting edge in monument design

HelioLine makes the difference with excellent color characteristics and unique safety properties.
Literal every edge is a potential zone for HelioLine enhancement. No matter if you want to stress contours, guide passengers, or point out areas that deserve special attention – HelioLine is your safe and long-lasting solution.

HelioLine fulfills the most common aviation norms with respect to FST (flammability, smoke, toxicity).

Our light sources HelioBasic and HelioIntense are the perfect match for your HelioLine contour-lighting projects.

*Design freedom*  
where the sky is the limit

HelioLine offers almost unlimited possibilities to realize impressive and functional lighting solutions.

Literally every edge is a potential zone for HelioLine enhancement. No matter if you want to stress contours, guide passengers, or point out areas that deserve special attention – HelioLine is your safe and long-lasting solution.

HelioLine fulfills the most common aviation norms with respect to FST (flammability, smoke, toxicity).

Our light sources HelioBasic and HelioIntense are the perfect match for your HelioLine contour-lighting projects.
Think smart – think HelioLine.

**Think HelioLine!** It will enrich your imagination.

**Experience HelioLine!**
You will be surprised at what is possible.

**Please, let us know what we can do for you.**
Numerous glass optical fibers are fitted into a silicone sheathing. The light is emitted homogenously to the side.

HelioLine glass fibers are powered by a separate light source (see left side). There are two main advantages:

A | The light source can be placed away from the point where the light emits.
B | The glass fiber does not carry any electrical power.

HelioLine fits into places where there is only very limited space. Taylor-made mounting profiles facilitate a smooth installation.
Technical details

Technical data SCHOTT® HelioLine

<table>
<thead>
<tr>
<th>SCHOTT part number</th>
<th>1470754</th>
<th>1470763</th>
</tr>
</thead>
</table>

Dimensions:

<table>
<thead>
<tr>
<th>Description</th>
<th>Diameter 1</th>
<th>Diameter 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active bundle diameter</td>
<td>$2.0 \pm 0.1 \text{ mm}$</td>
<td>$3.0 \pm 0.1 \text{ mm}$</td>
</tr>
<tr>
<td>Cable diameter</td>
<td>$3.85 \pm 0.15 \text{ mm}$</td>
<td>$4.85 \pm 0.2 \text{ mm}$</td>
</tr>
<tr>
<td>Bending radius</td>
<td>$&gt; 10 \text{ mm}$</td>
<td>$&gt; 15 \text{ mm}$</td>
</tr>
<tr>
<td>Weight</td>
<td>$17 \text{ g/m}$</td>
<td>$30 \text{ g/m}$</td>
</tr>
</tbody>
</table>

Light output uniformity and color deviation:

Up to fiber length of 5.5 m no difference visible for light sources with radiation angle of 55° max. (equals NA 0.46). For lengths > 2 m, light source at each end is highly recommended.

Flammability:

Bunsen burner test 60°-30s acc. FAR/JAR/CS25, App. F, Part I & AITM

Smoke density:

According to JAR/FAR/CS25, App. F, Part V & AITM 2.0007/2.0008B

Toxic components:

According to ABD0031 & AITM 3.0005

Fluids susceptibility:

According to RCTA DO-160F: Coffee, soda, alcoholic drinks, isopropyl alcohol, Callington 1-shot (AMS1450). Good resistance against household cleaning agents as well as ethanol.

Related light sources

SCHOTT® HelioBasic II (single color, standard intensity)

SCHOTT® HelioIntense (single color, high intensity)

SCHOTT® HelioIntense Spectrum CC (full colors, high intensity, and active color control)

SCHOTT® HelioPower (single color, very high intensity for multi-tail applications)