**SCHOTT® HelioFlex**  
Highly flexible fiber optic cables for Spot Lights and Star Ceiling

**Product Benefits**
- One light source in combination with SCHOTT® HelioFlex can create various numbers of spots
- Electrically safe for worry-free performance
- Excellent flexibility due to a multi-fiber construction
- Reduced life cycle costs due to low maintenance (extremely high MTBF)
- Integration in areas with limited space
- No EMI, heat or humidity issues at light-output

**Product Characteristics**

Through the technical approach of having light guides and light sources separated, customized illumination can be created even if the space is limited. With SCHOTT® HelioFlex the critical parts are already qualified by major aircraft manufacturers.

The system stands for very high flexibility and can either create mood lighting or functional illumination. One LED light source can cover several applications in the cabin, a monument or on the seat. The visible part of the light spot can easily be customized to meet the overall seat and cabin design.

Furthermore, this system significantly reduces maintenance costs as the light is built up in modules that can be replaced apart from each other. Thus you never have to replace the complete light.

SCHOTT® HelioFlex is compliant with FAR 25-853, ABD0031 regarding flammability, smoke and toxicity.

Mood Lighting with SCHOTT® HelioFlex

Functional Lighting with SCHOTT® HelioFlex
### Technical Specifications

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<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Outer cable diameter</td>
<td>2,0 +/- 0,2 mm</td>
<td>4,5 +/- 0,2 mm</td>
<td>5,6 +/- 0,3 mm</td>
</tr>
<tr>
<td>Active bundle diameter</td>
<td>1,0 mm</td>
<td>2,5 mm</td>
<td>4,5 mm</td>
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<tr>
<td>Fiber diameter</td>
<td>50 µm</td>
<td>70 µm</td>
<td>70 µm</td>
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<tr>
<td>Minimum bending radius</td>
<td>4 mm</td>
<td>15 mm</td>
<td>25 mm</td>
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<tr>
<td>Recommended max. length</td>
<td>3 m</td>
<td>5 m</td>
<td>5 m</td>
</tr>
<tr>
<td>Typical weight /m</td>
<td>5,5 g / m</td>
<td>40 g / m</td>
<td>55 g / m</td>
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<tr>
<td>Sheathing</td>
<td>Glass braid with silicone coating</td>
<td>Silicon</td>
<td>Glass braid with silicone coating</td>
</tr>
<tr>
<td>Cable color</td>
<td>Black</td>
<td>Black</td>
<td>Black</td>
</tr>
</tbody>
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### Recommended Applications

- **Functional light** e.g. for reading, mood lighting or stowage lighting in panels or various monuments and seats
- **Mood lighting** for various applications within the cabin

### Associated Products

- LED light source SCHOTT® HelioBasic II
- LED light source SCHOTT® HelioIntense
- LED light source SCHOTT® HelioIntense Spectrum®
- LED light source SCHOTT® HelioPower