SCHOTT® HelioFlex

Highly flexible fiber optic cables for spotlight applications

Product Characteristics

The SCHOTT fiber optic solution overcomes the space and heat problem by placing a light engine on a spot where there is sufficient space and heat can circulate freely. From this point, we incorporate the SCHOTT® Helio Flex light guide within the panel structure and install a light outlet at the required point. The angle of the light output can be designed flexible.

The greatest advantage of such a system is the pure mechanical attributes with no electrical wiring to the panel. SCHOTT® Helio Flex is compliant with FAR 25-853, ABD0031 regarding flammability, smoke and toxicity.

Product Technology

Glass fiber bundles for light transmission, which are embedded in a glass fiber braid, certified for Airbus platform including A-380.
**Technical Specifications**

<table>
<thead>
<tr>
<th></th>
<th>Application Star Ceiling</th>
<th>Application Spot Light</th>
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</thead>
<tbody>
<tr>
<td>Fiber diameter</td>
<td>53 µm</td>
<td>70 µm</td>
</tr>
<tr>
<td>Active bundle diameter</td>
<td>1,0 mm</td>
<td>4,5 mm</td>
</tr>
<tr>
<td>Outer cable diameter</td>
<td>2 ± 0,2 mm</td>
<td>5,6 ± 0,3 mm</td>
</tr>
<tr>
<td>Minimum bending radius</td>
<td>4 mm</td>
<td>20 mm</td>
</tr>
<tr>
<td>Cable color</td>
<td>black</td>
<td>black</td>
</tr>
<tr>
<td>Max. length</td>
<td>5 m</td>
<td>5 m</td>
</tr>
<tr>
<td>Typical weight/m</td>
<td>5,5 g/m</td>
<td>55 g/m</td>
</tr>
</tbody>
</table>

**Product Advantages**
- Excellent colour characteristics and light transmission
- Electrical safety for worry-free performance
- Excellent flexibility due to a multi-fiber construction
- Unrivalled lifetime
- Factory-terminated common end for superior quality, performance and longevity

**Associated Products**
- LED Light Sources SCHOTT® HelioBasic and SCHOTT® HelioControl
- Fittings in different shapes → SCHOTT® HelioSpot

**Recommended Applications**
- Starry sky
- Spot lights in panels or various monuments and seats (SCHOTT® HelioSpot)

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