SCHOTT® HelioLine

High-quality Aviation approved side-emitting glass fiber cable

SCHOTT® HelioLine sidelight components are side-emitting optical fibers that were developed to answer the high demand for mood- and ambient lighting in aircraft cabins. SCHOTT® HelioLine sidelight components offer a huge number of outstanding user benefits for line light applications including:

- Excellent color characteristics
- High light output and homogeneity in combination with SCHOTT® HelioBasic II, HelioIntense or HelioPower light sources
- Very limited space depth
- Non-electrical light emitters
- Perfect fluid resistance
- Excellent flexibility resulting in extreme small bending radii for more design freedom
- Unrivalled lifetime

Applications

Mood lighting and ambient illumination in aircraft cabin:
- Toe-Kick areas
- Table & monument edges
- Seat contours
- Steps of staircase
- Handrails

SCHOTT® HelioLine is a side-emitting cable with a silicone sheathing.
## Technical Data SCHOTT® HelioLine

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<th>SCHOTT Part number</th>
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<td>1470754</td>
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### Dimensions :
- **Active bundle diameter**: Ø 2.0±0.1 mm  
- **Cable diameter**: Ø 3.85±0.15 mm  
- **Bending radius**: > 10 mm  
- **Weight**: 17 g/m  
- **Glass fibers**: approx. 670  
- **Quantity**: 70 µm  
- **Fiber diameter**: max. 5 per meter allowed  
- **Fiber breakage**: No conglomerates allowed

### Cable material
- **Cable material**: Silicon

### Color
- **Color**: White translucent

### Mounting and cleaning
- **Mounting and cleaning**: No tensile stress or high pressure allowed

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

### Smoke density
- **Accl. to JAR/FAR/CS25, App. F, Part V & AITM 2.0007 / 2.0008B

### Toxic Components
- **Acc. to ABD0031 & AITM 3.0005

### Fluids Susceptibility
- **According to RCTA DO-160F**: Coffee, Soda, Alcoholic drinks, Isopropyl alcohol, Callington one shot (AMS1450)

### Chemical resistance
- **Good resistance against household cleaning agents as well as Ethanol. Other cleaning agents have to be tested.**

### Light output uniformity and color deviation
- **Up to fiber length of 5.5 m no difference visible for lightsources with radiation angle of 55° max. (equals NA 0.46).**
- **For lengths > 2 m, lightsource at each end is highly recommended.**

### Operating Conditions
- **Temperature**: -40°C to + 160°C  
- **Relative Humidity**: 85% max.

### Transportation and Storage
- **Temperature**: - 20°C to + 70°C  
- **Relative Humidity**: 10 to 90% (non-condensing)

## Related light sources
- SCHOTT® HelioBasic II (single color, standard intensity)
- SCHOTT® HelioIntense (single color, high intensity)
- SCHOTT® HelioIntense Spectrum CC (full colors, high intensity)
- SCHOTT® HelioPower (single color, very high intensity for multi-tail applications)

### End ferrule with union nut

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**Aviation**

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