

SCHOTT® IllumaLine

High-quality side-emitting glass fiber cable



Applications

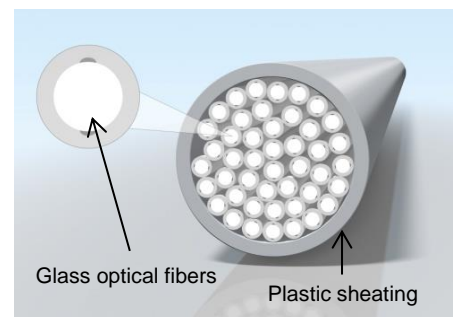
Mood lighting and functional illumination in

- Medical devices
- Industrial application
- Transportation application

SCHOTT® IllumaLine sidelight components are side-emitting optical fibers that were developed to answer the high demand for functional and ambient lighting in different environments. SCHOTT® IllumaLine 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® IllumaLS light sources
- For very limited space depth
- Electrical safety for worry-free performance
- Excellent flexibility resulting in extreme small bending radii for more design freedom
- Unrivaled lifetime

SCHOTT® IllumaLine is a side-emitting cable with a PE/PP sheathing.



Technical Data SCHOTT® IllumaLine		
Dimensions	Fiber bundle diameter Outer diameter of cable Length ferrule for light in coupling	∅ 3 mm active diameter ∅ 5 mm (other on request) 50 mm up to 10.000 mm in total including termination ∅ 8 mm
Cable types	SLC 3.0 short distance SLC 3.0 medium distance SLC 3.0 long distance Termination	3 different types available. All with a translucent PE/PP sheathing For application length up to 1.000 mm, 3 mm active diameter For application length up to 2.000 mm, 3 mm active diameter For application length up to 10.000 mm, 3 mm active diameter 2 stainless steel ferrules on both ends for in coupling on both ends or 1 ferrule and 1 cover for in coupling at one end Application length over 2.000 mm needs a light in coupling on both ends for better homogeneity. Other cable types available on request .
Glass fibers	Quantity Fiber diameter fiber breakage	approx. 1600 for an active diameter of 3 mm 70 µm max. 5 per meter allowed. No conglomerates allowed.
Mechanical resistance	Bending radius Mounting & Cleaning	> 4 to 5 times of outer diameter of the cable No tensile stress or high pressure allowed
Chemical resistance		Good resistance against household typical cleaning agents also as Ethanol. Other cleaning agents has to be tested.
Glow characteristics		E-functional gradient depending on distance to light source with different decrease and brightness depending on cable type
Operating Conditions	Ambient Temperature Relative Humidity	+ 5°C to + 35°C 85% max.
Transportation and Storage	Temperature Relative Humidity	- 20°C to + 70°C 10 to 95% (non-condensing)

Available cables - Total length in mm of the cable including termination has to defined for each application	
SCHOTT P/N	Description
1468054	SLC 3.0 short distance , both ends with ferrule for light in coupling at both ends
1468076	SLC 3.0 medium distance , both ends with ferrule for light in coupling at both ends
1468078	SLC 3.0 long distance , both ends with ferrule for light in coupling at both ends
1468055	SLC 3.0 short distance , one end with ferrule for light in coupling at one end, other end covered
1468077	SLC 3.0 medium distance , one end with ferrule for light in coupling at one end, other end covered
1468080	SLC 3.0 long distance , one end with ferrule for light in coupling at one end, other end covered

Related light sources
<ul style="list-style-type: none"> SCHOTT® IllumaLS RGB, a RGB light source designed for the side emitting cable Other SCHOTT® IllumaLS light sources in single color versions are also available

All technical data are subject to change without further notice.

