

SCHOTT® Automotive Exterior Lighting

Flexible Solutions

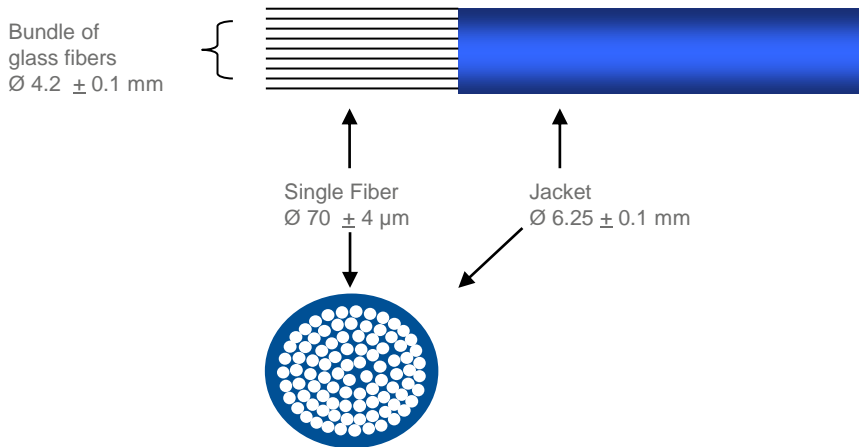


Product Characteristics

SCHOTT has specially designed its light conducting cable for automobile lighting applications. It fulfills all requirements outlined in the EU directive 2000/53/EC ("End of life vehicles"). The lighting systems make it possible to separate the light source spatially from the light output. Thus you can create high-performance illumination in difficult restricted spaces. Products are finished with according ferrules to cable or harness.

We are flexible

We are pleased that our solutions for exterior lighting satisfy the rigid regulations for headlight constructions and yet offer our customers complete freedom of creativity. In this respect, the combination of fiber optic components and light sources represents a major advantage. Light can be flexibly guided to any area and be distributed evenly. Besides, Sidelight creates outstanding light effects for contour or accentual illumination.



Technical Specifications	
Type of Fiber	F1, others on request
Diameter of single fiber	Customized upon request, e.g. 70 µm
Diameter of bundle	Customized upon request, e.g. 4,2 ± 0,1 mm
Numerical aperture of single fiber	Depending on fiber type, e.g. 0,6 for F1 - fiber
Angle of aperture for single fiber	Depending on fiber type, e.g. 74° for F1 - fiber
Attenuation of single fiber	Depending on fiber type, e.g. 1300 dB/km @ 458 nm, 550 dB/km @ 553 nm for F1 - fiber
Color temperature for 1 m (NLQ A)	Depending on fiber type, e.g. 2830 K for F1 - fiber
Material of sheathing	Customized upon request, e.g. TPU/TEEE
Diameter of sheathing	Customized upon request, e.g. 6,25 ± 0,1 mm
Ferrules / end design	Customized upon request
Typical material for ferrules	Brass, Aluminium, others on request
Transmission	Depending on finishing of end surfaces, typical example > 50%
Temperature resistance	Depending on jacket material, e.g. -40 to + 150°C @ TEEE
Chemical resistance	Depending on jacket material, e.g. resistant against oil, liquor, acid, fuel, water , @ TEEE
Colour of cable	Black, others on request
Minimum bending radius	Depending on diameter and sheathing material, e.g. 25 mm @ Ø 4,2, TEEE
Durability against bending	Depending on diameter and sheathing material, e.g. ΔT > 10% up to 100.000 cycles @ Ø 4,2, TEEE, Test according EN 187 000 Method: 507 d = 40 mm
Delivery	Tailored according to customers needs