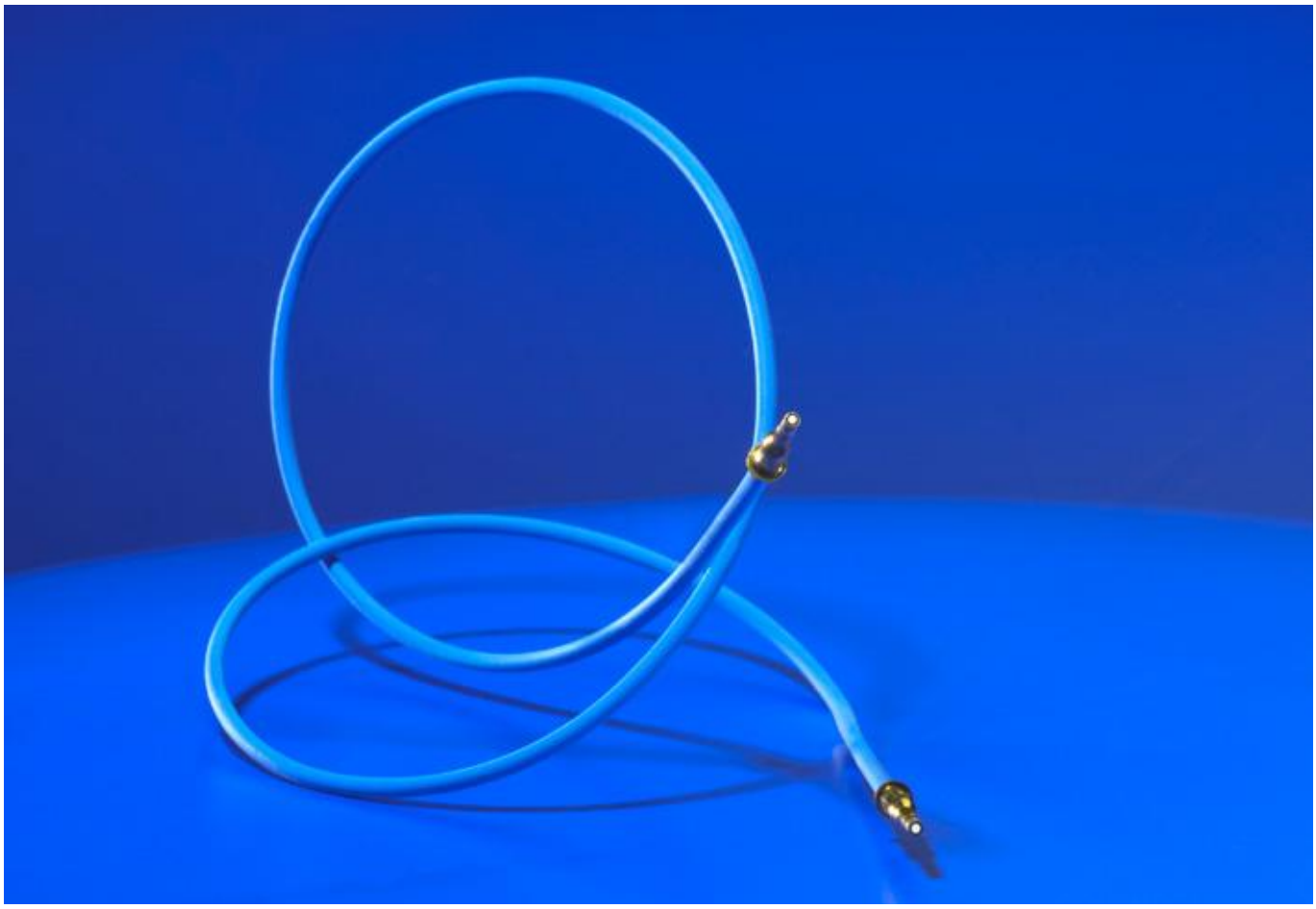
SCHOTT® Automotive Datacom

flexible solutions

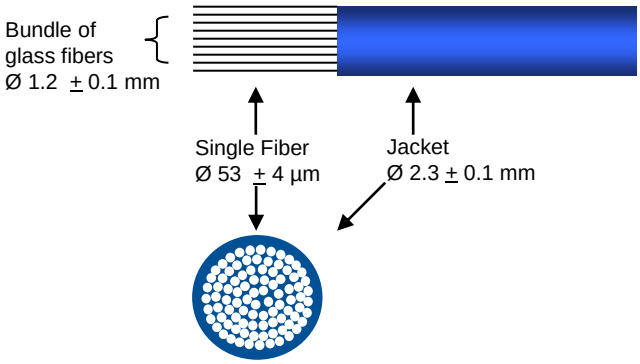


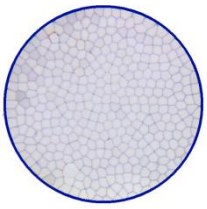
Product Characteristics

The SCHOTT fiber optic data cable is designed for use in vehicles. Due to its outstanding characteristics it fulfils the directive of the European Union 2000/53/EC and its amendments as also the VDA list 232-101. A special sheathing material is used to stand the indicated temperature requirements. With different jacket materials, the optical glass fiber cable may also be used in other challenging environments or higher temperature ranges like in engine compartments or chassis areas. Due to its multicore structure glass fiber components are highly flexible on the one hand and able to transmittremendous data rates.
The numerical aperture is the same as the one of plastic optical fibers (POF). That means that the optical glass fiber (GOF) data cable from SCHOTT can be utilized with the same transmitters and receivers as standard plastic optical components.

SCHOTT
glass made of ideas

Technical Specifications	
fiber type	G 2
diameter optical surface	Ø 1.0 mm manufactured
diameter single fiber	Ø 53 ± 4 •m
numerical aperture	0.5
attenuation at 650 nm	< 180 dB/km
attenuation at 850 nm	< 150 dB/km
minimum bending radius (long term)	5 mm
standard jacket diameter	Ø 2.3 ± 0.1 mm
temperature resistance	- 40 to + 125 °C = standard (others upon request)
bandwidth (at full NA)	min. 150 MHz x 20 m
Chemical resistance	Resistant against automotive media
Burning behaviour	Flame retardant and self-extinguishing (in accordance to manufacturer data)
Delivery:	Barrel with max. 3.000 m
Color of Cable:	similar to RAL 5012 - LightBlue (others upon request)
Maximum Tensile Force:	> 60 N (IEC 793 2A4)
Weight of Cable:	5.8 g/m
Attenuation per Coupling:	Depends on the connector system





cross-section of a multicore
glass optical fiber

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