

## SiCSi 1 x 2,5mm<sup>2</sup>, 6 kV, shielded

### High voltage cable for connection of UV lamps

Typical application of this cable is the use for connecting UV lamps with their power supplies. The shield decreases disturbance emissions, gives a certain protection against isolation damage and gives the possibility to detect isolation faults in long trays. Usually this cable is used up to lamp operating voltages of about 3,5kV.



The silicone isolation gives a certain protection against uv stray light and is also suitable for the high temperatures that can occur at the connection area of a UV module. It is not designed to be used inside uv modules, e.g. in parallel to the reflector (here Teflon isolated cables have to be used typically).

Technical data	
Art. No.	022 52201 0000
Conductor	Cu, tin plated 2.5 mm <sup>2</sup>
Dielectric strength	6,000 V (RMS)
Cross section	conductor: 1x 2.5 mm <sup>2</sup> shield: 2.1 mm <sup>2</sup>
Conductor construction	50 x 0.25 mm
Insulation	silicone
Color	Red, black (dielectric)
Outer diameter	approx. 11 mm
Current carrying capacity	approx. 25 A at temp. + 140° C approx. 20 A at temp. + 155° C approx. 15 A at temp. + 165° C
Temperature stability	+ 180° C max. for approx. 25,000 h + 250° C for some hours - 50° C
Ozone stability	mostly; when using with UV medium pressure lamps no problems expected; when using with lamps type "S" (made of synthetic quartz) an embrittlement of insulation is expected and corrosion of the conductor in the long run.
UV stability	UV-A and UV-B (sun exposure) practice shows that silicone is not stable against UV-C in the long run (embrittlement of insulation). So silicone cables have to be shielded against intensive UV light.
RoHS conform	Yes
Delivery	cut on request ≥ 5 m in 100 m rings from 1000 m on cable drum
Delivery time	usually from stock, 1000 m cable drums on request