

High voltage cables for UV Lamps (overview)

Applications

The use of uv lamps usually demands the use of high voltage cables. This overview will help you select the correct cable type.



This **stranded cables** are used in ambient conditions where higher resistance to higher temperatures and uv radiation is necessary, e.g. in uv modules where reflected uv light and a higher temperature can be present.



The **single cables SiF and SiCSi** are typically used between the control cabinet and the UV module. Depending on the power supply unshielded or shielded types are available. In the case of electronic power supplies (EPS), shielded cables are required. The maximum permitted cable length between the UV lamp and the power supply depends on the EPS type and can be found in the product data sheet.












Some applications demand the use of **multi-core cables**, e.g. it should be possible to disconnect a UV module by using a high-voltage connector. For this reason we provide a multi-core cable which includes control cables. The high voltage wires for the lamp are, of course, shielded.

The strands and cables can be ordered cut in multiple meter lengths, as a 100 m ring or on a 1000 m cable drum. All strands and cables cannot be used for drag chain applications.

For detailed information please see the individual data sheets. Please see page 2 for an overview comparison of the cables that we can offer.

Technical data

Single cables SiF and SiCSi						
Photo	Art. No.	Name	Electric strength in V _{eff}	Shield	Sheath	Notes
	022 52207 0000	SiF 2,5-6kV	6 kV	-	Silicone	1x 2.5mm ²
	022 52200 0000	SiCSi 2,5-3kV	3 kV	✓	Silicone	1x 2.5mm ² , shielding
	022 52201 0000	SiCSi 2,5-6kV	6 kV	✓	Silicone	1x 2.5mm ² , shielding

Multi-core cables						
Photo	Art. No.	Name	Electric strength in V _{eff}	Shield	Sheath	Notes
	022 06201 0000	HK-SO- Li2GC2G 2x2,5 -3kV	3 kV	✓	Silicone	2x 2.5mm ² , combined shielding
	022 52204 0000	PVC-2x4- 3kV	3 kV	✓	PVC	2 x 4.0mm ² , combined shielding
	022 52205 0000	PVC-2x4- YCY-3kV	3 kV	✓	PVC	2 x 4.0mm ² , combined shielding, flame-retardant for ships
	022 52203 0000	PVC-2x4- YCYS-1kV	1 kV	✓	PVC	2 x 4.0mm ² , combined shielded, flame-retardant for ships, reinforced
	022 52206 0000	PMC- 1,5+0,34- 3kV	3 kV	✓	PVC	2 x 1.5mm ² + 1 x 1.5mm ² + 6 x 2 x 0.34mm ² single shielding
	022 52202 0000	PMC- 2,5+0,34- 3kV	3 kV	✓	PVC	2 x 2.5mm ² + 1 x 2.5mm ² + 10 x 2 x 0.34mm ² single shielding