

HEAT RESISTANT SILICONE INSULATED WIRES



APPLICATIONS

SiF are flexible silicone insulated wires intended for use in wide range of temperature. The wires are suitable for industrial applications, such as steel plants or cement, glass and ceramic factories. They are also used in lighting devices and systems.

The wires are halogen free, as well oil and chemical resistant.

CONSTRUCTION

- flexible, multiwire conductors, stranded of tin-plated annealed copper wires, meeting requirements of class 5 per PN-EN 60228,
- silicone insulation, colours of insulation according to customer requirements.

CHARACTERISTICS

Conductor cross-section	mm ²	0,5	0,75	1,0	1,5	2,5	4,0
DC conductor resistance at 20°C, maximum	Ω/km	40.1	26.7	20.0	13.7	8.21	5.09
Conductor cross-section	mm ²	6,0	10,0	16,0	25,0	35,0	50,0
DC conductor resistance at 20°C, maximum	Ω/km	3.39	1.95	1.24	0.795	0.565	0.393

Operating voltage U ₀ /U	300/500 V	Minimum bending radius	
Voltage test	2000 V rms	for movable installation	15 x cable diameter
Insulation resistance, minimum	20 MΩ·km	for fixed installation	6 x cable diameter
Conductor temperature limit		Halogen-free	PN-EN 60754-1, PN-EN 60754-2
(adequate ventilation provided)	from - 60 to + 180°C	Cable combustibility	flame retardant
temporary	+ 200°C	Combustibility tests	PN-EN 60332-1-2, IEC 60332-1-2

CE = the cable meets requirements of the low voltage directive 2014/35/EU

Product No.	Number of conductors x conductor cross-section	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
	mm ²	mm	kg/km	kg/km
1314 006	1 x 0,50	2.1	4.8	5.4
1314 007	1 x 0,75	2.4	7.2	11.3
1314 003	1 x 1,0	2.5	9.6	13.7
1314 001	1 x 1,5	2.8	14.4	18.8
1314 002	1 x 2,5	3.4	24.0	30.2
1314 008	1 x 4,0	4.2	38.4	47.7

Product No.	Number of conductors x conductor cross-section	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
	mm ²	mm	kg/km	kg/km
1314 009	1 x 6,0	5.0	57.6	70.9
1314 010	1 x 10,0	6.6	96.0	119.7
1314 011	1 x 16,0	7.4	154.0	187.4
1314 012	1 x 25,0	9.2	240.0	289.9
1314 013	1 x 35,0	10.3	336.0	398.7
1314 014	1 x 50,0	12.2	480.0	559.3

Other cross-sections available on request.

TECHNOKABEL S.A. reserves the right to change specifications without prior notice.