

Silicon single conductor

LÜTZE SILICON SIF



Application

- In electrical devices with ambient temperatures up to +180°C
- In smelting works, steel works and rolling mills, cement, glass and ceramic industries
- In lighting and heating devices
- Flexibly usable for low temperatures
- Engines and ignition cables

Properties

- Temperature and hot air-resistant conductor
- Halogen-free, no burning transmission
- High dielectric strength
- The mechanical properties are reduced for running under air termination
- Resistant to high-molecular oils, plant and animal based greases, bases, salt solutions and diluted acids
- RoHS-compliant

Technical data

Voltage	
U	500 V
Test voltage	2000 V
Insulation resistance	min. 200 MΩ × km
Temperature range	
continuous	-60 °C to +180 °C
temporary	to +220 °C
Minimum bending radius	
moving	Cable diameter × 7.5
fixed	Cable diameter × 4
Burning behaviour	Flame-retardant according to VDE 0482 T 265-2; DIN EN 50265-2-1; IEC 60332-1
Halogen-free	according to DIN EN 50264-1; EN 50267-2-1 and EN 60684-2

Design

- Bare copper braid galvanised, fine stranded according to DIN VDE 0295 class 5 and IEC 60228 class 5
- Silicon conductor insulation
- Strand colour preferably black, additional colour upon request

Part-No.	Number of strands/cross-section	Outer-Ø approx. mm	Weight kg/100 m	Cu-Index kg/100 m
0.25 – 150 mm²				
110528	0.25	1.6	0.5	0.2
110529	0.5	1.9	0.8	0.5
110530	0.75	2.2	1.1	0.7
110531	1	2.3	1.3	1.0
110532	1.5	2.7	1.8	1.4
110533	2.5	3.4	3.0	2.4
110534	4	4.0	4.5	3.3
110535	6	4.5	6.3	5.8
110549	10	6.8	11.9	9.6
110550	16	7.8	18.6	15.4
110551	25	9.7	28.7	24.0
110552	35	10.9	38.4	33.6
110553	50	13.6	55.0	48.0
110554	70	14.6	73.7	67.2
110555	95	18.0	101.5	91.2
110655	120	19.5	122.1	115.2
110558	150	21.6	152.1	144.0