

Silicon single conductor

LÜTZE SILICON SIF



halogenfree

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

Isolation 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 265-2-1; DIN EN 50265-2-1; IEC 60332-1

Halogen-free

according to DIN EN 50264-1; EN 50267-2-1 and 60684-2

Design

- Bare copper wire galvanised, multi-strand according to DIN VDE 0295 class 5, 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

Glass silk isolated high temperature single conductor

LÜTZE NICKEL BRAID GL



halogenfree

Application

- In electrical devices with ambient temperatures up to +400°C
- For stove and kiln engineering
- In smelting works, steel works and rolling mills, cement, glass and ceramic industries as well as chemical industries
- In lighting and heating devices

Properties

- very good electrical properties
- very good mechanical properties

Technical data

Voltage

U 300 V

Test voltage 1500 V

Temperature range

continuous -60 °C to +350 °C

temporary to +400 °C

Design

- Multi-strand nickel wire
- Isolation:
 - separating foil
 - counter-running glass silk
 - Heat-resistant impregnation treatment
- Wire colour no colour with coloured label coil

Part-No.	Number of strands/cross-section	Outer-Ø approx. mm	Weight kg/100 m
0.75 – 10 mm²			
110536	0,75	3.4	1.3
110537	1,0	3.5	1.5
110538	1,5	3.8	2.1
110539	2,5	4.3	3.3
110540	4	4.9	4.7
110541	6	5.7	6.6
110582	10	7.1	10.5

CE These products are in conformity to the EC Low Voltage Directive 73/23/EEG or 93/68/EEG respectively

Fluoropolymer single conductors

LÜTZE PTFE single conductor LÜTZE FEP single conductor



Application

- In electrical devices with ambient temperatures up to +180°C or +260°C
- In smelting works, steel works and rolling mills, cement, glass and ceramic industries
- In lighting and heating devices
- Flexibly usable for low temperatures
- Engine and ignition cables
- Everywhere where the highest requirements are placed on the electrical, mechanical and chemical stability

Properties

- Non-flammable
- High isolation resistance and electrical dielectric strength with minimal wall thicknesses
- Small dielectric losses
- Absolute weathering and ozone resistance
- Resistant to high-molecular oils, plant and animal-based greases, bases, salt solutions and diluted acids
- Free from paint wetting disruptive substances (LABS-free)

Technical data

Voltage	
U	600 V
Test voltage	2500 V
Isolation resistance	min. 2GΩ × km
Temperature range	
PTFE	-5 °C to +70 °C
continuous	-190 °C to +260 °C
temporary	to +300 °C
FEP	-5 °C to +70 °C
continuous	-100 °C to +205 °C
temporary	to +230 °C
Minimum bending radius	
moving	Cable diameter × 7.5
fixed	Cable diameter × 4
Burning behaviour	Flame-retardant according to VDE 0482 T 265-2-1; DIN EN 50265-2-1; IEC 60332-1

Design

- Bare copper wire multi-strand according to DIN VDE 0295
- Conductor insulation fluoropolymer
- 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
PTFE single conductor				
111026	0,5	1.4	0.9	0.5
110313	0,75	1.7	1.1	0.7
111027	1,0	1.9	1.4	1.0
110315	1,5	2.2	2.0	1.4
110316	2,5	2.6	3.2	2.4
110785	4	3.3	4.9	3.8
110318	6	4.5	7.1	5.8
111028	10	5.8	12.4	9.6
111029	16	7.0	18.8	15.4
FEP single conductor				
110311	0,25	1.2	0.4	0.2
110312	0,5	1.4	0.9	0.5
110516	0,75	1.7	1.1	0.7
110314	1,0	1.9	1.4	1.0
110517	1,5	2.2	2.0	1.4
110518	2,5	2.6	3.2	2.4
110317	4	3.3	4.9	3.8
110519	6	4.5	7.1	5.8
110319	10	5.8	12.4	9.6
110320	16	7.0	18.8	15.4