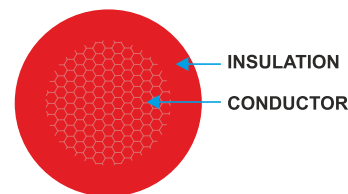




## Silicon Cables

SiF - Silicone Single Core Cable



### Application

Suitable where PVC insulated cables become brittle due to high-temperature variations. Silicone-insulated single cores are preferably used in the metallurgical industry, steel works, hot rolling mills, coking plants, foundries, etc.

Insulation consists of silicone rubber. It is resistant to vegetable and animal fat, many types of oil, and diluted acids. No decomposition occurs when exposed to alcohol, alkaline solutions, etc. The insulation is resistant to oxygen and ozone. Should the cable burn, an insulation silicon dioxide layer will remain on the conductor to render it short-circuit-proof.

### Properties

Advantages high ignition or flash point resistant to high molecular oils, fats from vegetables and animals, alcohols, plasticizers and clothes, diluted acids, lye and salt dissolution, oxidation substances, tropical influences and weather, lake water, oxygen Halogen-free according to DIN VDE 0482 part 267/ EN 50267-2-1/ IEC 60754-1 (equivalent DIN VDE 0472 part 815). Behaviour in fire No flame propagation test according to DIN VDE 0482 part 265-2-1/ EN 50265-2-1/ IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B).

For laying as a fixed installation only in open or ventilated pipe systems as well as in ducts. Otherwise, the mechanical properties of the silicon are reduced by the enclosed air at temperatures exceeding 90°C.

### Construction

- Fine tinned copper strands
- Strands to VDE-0295 Class-5, IEC 60228 Cl-5
- Silicone core insulation
- Cores to VDE-0293 colors on the chart

### Technical Parameter

- Working voltage : 300 / 500 V
- Test voltage : 2 KV
- Bending radius : 6 x Ø
- Temp range : -55°C to +180°C
- Short time temp up to +350°C
- Flame retardant : IEC 60332.1
- Insulation resistance : Min.870 MΩ x km

VDE 0482-261      EN 50267-2-1      IEC 60754-1

### Dimension

Part code	No. of Cores	Conductor cross-section mm <sup>2</sup>	Nominal OD mm	Gross Weight kg/km
1801T010002	1	0.25	1.9	5.5
1801T010005	1	0.5	2.1	8.6
1801T010007	1	0.75	2.4	11.8
1801T010010	1	1	2.5	13.5
1801T010015	1	1.5	2.8	18.5
1801T010025	1	2.5	3.4	30
1801T010040	1	4	4.2	47.3
1801T010060	1	6	5.2	71.1
1801T010100	1	10	7.1	119.4
1801T010160	1	16	8.4	187.7
1801T010250	1	25	10.3	289.6
1801T010350	1	35	11.6	398.3
1801T010500	1	50	13.9	559.7
1801T010700	1	70	16.0	765.8
1801T010950	1	95	18.4	1031.5
1801T011200	1	120	20.0	1284.6
1801T011500	1	150	23.0	1563.4
1801T011850	1	185	24.9	1858.2

1801 - Silicon Cables