



SIF



Product 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 silicone dioxide layer will remain on the conductor to render it short circuit proof.

Product characteristic:

Construction:

- Fine tinned copper strands
- Strands to VDE-0295 Class-5, IEC 60228 CI-5
- Silicone core insulation
- Cores to VDE-0293

Technical:

- Working voltage: 300/500 volts
- Test voltage: 2000 volts
- Bending Radius: 15 x Ø
- Temp range: -50° C to +180° C
- Short time temp up to +220° C
- Flame retardant: IEC 60332.1
- Insulation resistance: 20 MΩ x km

Properties:

- Advantages
High ignition or flash point



- Resistant to High molecular oils, fats from vegetables and animals, alcohols, plasticizers and clophenes, 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)
- Behavior 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.

Product specification:

AWG	No. of Cores	Conductor cross section mm ²	Nominal OD mm	Copper weight kg/km	Gross Weight kg/km
24	1	0.25	1.9	2.4	5.5
20	1	0.5	2.1	4.8	8.6
18	1	0.75	2.4	7.2	11.8
17	1	1	2.5	9.6	13.5
16	1	1.5	2.8	14.4	18.5
14	1	2.5	3.4	24	30
12	1	4	4.2	38	47.3
10	1	6	5.2	58	71.1
8	1	10	7.1	96	119.4
6	1	16	8.4	154	187.7
4	1	25	10.3	240	289.6
2	1	35	11.6	336	398.3
1	1	50	13.9	480	559.7
2/0	1	70	16.0	672	765.8
3/0	1	95	18.4	912	1031.5
4/0	1	120	20.0	1152	1284.6
300kcmil	1	150	23.0	1440.0	1563.4
350 kcmil	1	185	24.9	1776.0	1858.2