

SIF GL Cable

Silicone Single Core with Glass Fibre Braiding Cable

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. Applications can include the internal wiring of equipment, appliances, control cabinets, ceramics and foundries where high temperatures occur. 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. Additional mechanical protection due to the glass fibre braid.

Technical Information

Conductor:	Fine strands of tinned copper wire
Insulation:	Silicone rubber (available in various colours)
Braiding:	Glass fibre braid
Stranding:	According to VDE 0295 class 5, IEC 60228
Voltage:	Working: 300/500V • Test: 2000V
Temperature Range:	Flexing: -60°C to + 180°C • Temporarily: to +200°C
Bending Radius:	Flexing: 15 x Ø • Static: 7.5 x Ø

Cross section mm ²	Outer diameter in mm ca.	Copper weight kg/km	Weight kg/km ca.
0.25	2.4	2.4	7.9
0.5	2.6	4.8	12.6
0.75	2.9	7.2	16.0
1.0	3.0	9.6	18.4
1.5	3.3	14.4	23.7
2.5	3.9	24.0	35.6
4.0	4.7	38.0	53.3
6.0	5.7	58.0	77.3
10.0	7.5	96.0	129.2
16.0	8.9	154.0	198.6
25.0	10.8	240	302.5
35.0	12.1	336.0	413.0
50.0	14.4	480.0	578.0

For the current ratings refer to the IEE Regulations tables 4F2A and B on pages 124 to 126.

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