

# SIF Cable

## Silicone Single Core Stranded 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.

### Technical Information

<b>Conductor:</b>	Tinned copper conductor
<b>Insulation:</b>	Silicone rubber
<b>Stranding:</b>	According to VDE 0295 class 5, 60228
<b>Voltage Rating:</b>	300/500V
<b>Temperature Range:</b>	<b>Flexing:</b> -50°C to + 180°C • <b>Temporarily:</b> to +200°C
<b>Bending Radius:</b>	<b>Flexing:</b> 15 x Ø • <b>Static:</b> 7.5 x Ø

mm	Stranding mm	Nominal Ø/DIA mm	Weight kg/km
0.25	-	1.9	5.4
0.5	16/0.20	2.1	8
0.75	24/0.20	2.4	11
1	32/0.20	2.5	14
1.5	30/0.25	2.8	19
2.5	50/0.25	3.4	30
4	56/0.30	4.2	48
6	84/0.30	5.2	71
10	80/0.40	7	120
16	126/0.40	8.4	180
25	196/0.40	10.3	290
35	270/0.40	11.6	400
50	396/0.40	13.9	550
70	360/0.50	16	750
95	475/0.50	18.4	1,000
120	-	20.0	1,285
150	-	23.0	1,563
185	-	24.9	1,915
240	-	26.9	2,550
300	-	30.1	3,190
400	-	36.3	4,130
500	-	40.3	5,210

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

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