

Silicone-Sheathed Flexible Cable SiF (Single Core)

Highly heat-resistant flexible Cable

Application

Silicone-insulated cables are used when exposure to high temperatures and temperature variations would cause conventional PVC-insulated cables to become brittle. Silicone-insulated cables are preferably used in the metallurgical industry, steel works, hot-rolling mills, coking plants, foundaries, cement works, glass factories and ceramic plants as well as in the production of electric motors, in ships and aeroplanes, in heating equipment, and in lighting gear etc. Silicone rubber is resistant to vegetable and animal fat, many types of oil and diluted acids. No decomposition occurs when exposed to alcohol, plasticizers, alkaline solutions, saline solutions, etc. The insulation is fully tropicalized and resistant to oxygen and ozone. One of its exceptional features is its high flash point. Should the cable burn, an insulating silicon dioxide layer will remain on the conductor to render it short circuit proof.



Construction	
Conductor	Tinned copper conductor to IEC 60228 cl.5
Insulation	Silicone based insulation
Technical Data	
Nominal voltage	300/500V
Test voltage	2000 V
Insulation resistance	> 200 GOhm x cm
Temperature range	-50°C to +180°C (adequate ventilation required) +200°C (short-term)
Minimum bending radius	Fixed installation: 6 x cable Ø One bend at end of core: 3 x cable Ø

Specifications

No of cores	Conductor nominal area	Outer diameter	Approx. cable weight
	mm ²	mm	Kg/km
1	0.25	1.9	5.4
1	0.5	2.1	9.0
1	0.75	2.4	12.0
1	1	2.5	15.0
1	1.5	2.8	20.0
1	2.5	3.4	32.0
1	4	4.2	50.0
1	6	5.0	73.0
1	10	6.6	118.0
1	16	7.4	177.0
1	25	9.2	277.0
1	35	10.3	374.0
1	50	12.2	530.0
1	70	14.2	724.0
1	95	16.6	982.0
1	120	18.0	1219.0
1	150	20.0	1524.0
1	185	22.5	1915.0