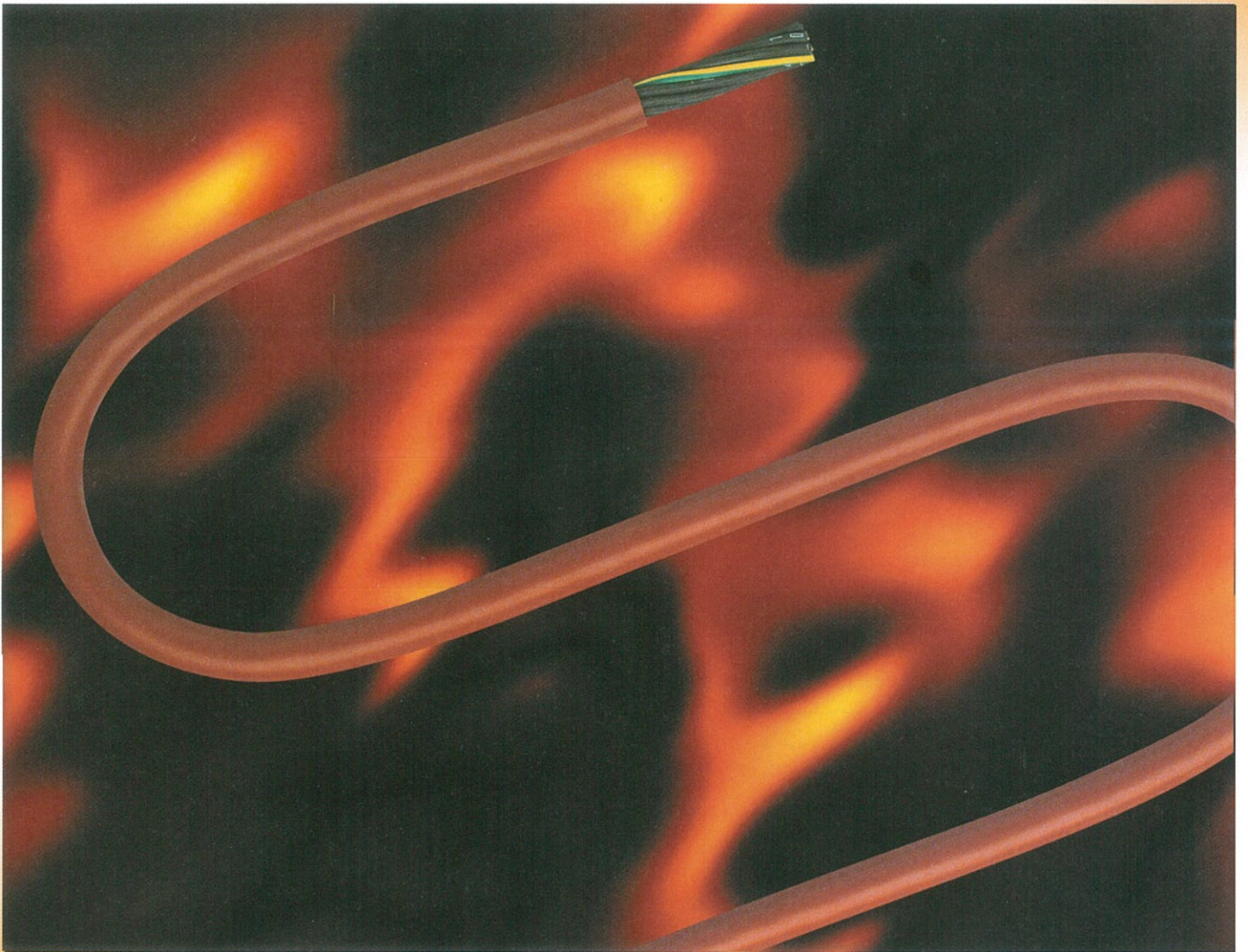




Heat-resistant
cables



Silicone-sheathed flexible cable SiHF-J

Highly heat-resistant flexible cable



Applications

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, foundries, cement works, glass factories and ceramics plants as well as in the production of electric motors, in sauna construction, in ships and aeroplanes, in heat, refrigeration and air-conditioning technology, as well as in lighting gear etc.

The insulation consists of silicone rubber. It is halogen-free and 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.

Design

- Stranded conductor made of tinned Cu fine wire
- Strand structure according to VDE 0295, class 5
- Silicone-insulated cores
- Up to 5 cores: coloured cores according to VDE 0293
- 6 cores and over: black cores with printed consecutive number coding
- Green-yellow protective conductor (3 cores and over)
- Cores twisted in layers
- Silicone outer sheath,
- Sheath colour: preferably reddish brown

Electrical and technical data

Rated voltage:	
U ₀ /U	300/500 V
<hr/>	
Test voltage:	2000 V
<hr/>	
Insulation resistance:	200 MΩ x km
<hr/>	
Bending radius:	approx. 15 x cable diam
<hr/>	
Temperature range:	- 60° C to + 180° C
temporarily	+ 200° C

Cross-section sq.mm	Cu content kg/km	Outer diameter approx. mm	Weight approx. kg/km	€/km gross
2x0,5	9,6	5,2	35	2.225,-
3x0,5	14,4	5,5	40	2.700,-
4x0,5	19,2	5,9	51	2.883,-
5x0,5	24,0	6,5	62	3.510,-
6x0,5	28,8	7,0	72	4.420,-
7x0,5	33,6	7,3	80	4.796,-
<hr/>				
2x0,75	14,4	6,4	53	2.257,-
3x0,75	22,0	6,8	64	2.506,-
4x0,75	28,8	7,8	84	3.294,-
5x0,75	36,0	8,5	101	3.851,-
6x0,75	43,2	9,2	117	4.385,-
7x0,75	50,0	9,2	125	4.658,-
12x0,75	86,0	10,6	170	9.315,-

Silicone-sheathed flexible cable N2GMH2G-J

Halogen-free, highly heat-resistant flexible cable according to DIN VDE 0250 part 816



Applications

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, foundries, cement works, glass factories and ceramics plants as well as in the production of electric motors, in sauna construction, in ships and aeroplanes, in heat, refrigeration and air-conditioning technology, as well as in lighting gear etc.

The insulation consists of silicone rubber. It is halogen-free and 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.

Design

- Stranded conductor made of tinned Cu fine wire
- Strand structure according to VDE 0295, class 5
- Silicone-insulated cores according to VDE 0207 part 20
- Coloured cores according to VDE 0293 6 cores and over: black cores with printed consecutive number coding
- Green-yellow protective conductor (3 cores and over)
- Cores twisted in layers
- Silicone outer sheath
- Sheath colour: preferably reddish brown

Special characteristics:

- reduced fire propagation
- reduced smoke emission
- low corrosiveness
- weathering resistance and aging stability
- chemical resistance

Electrical and technical data

Rated voltage:
U₀/U 300/500 V

Test voltage: 2000 V

Insulation resistance: 200 MΩ x km

Bending radius: approx. 15 x cable diam

Temperature range:
moved - 25° C to + 180° C
unmoved -50° C to + 180° C
temporarily + 200° C

Fire propagation / Flame retardation:
according to VDE 0472 part 804
and IEC 332

halogen-free according to VDE 0472
part 815 / IEC 754-1

Cross-section sq.mm	Cu content kg/km	Outer diameter approx. mm	Weight approx. kg/km	€/km gross
2x0,75	14,4	6,6	55	2.360,-
3x0,75	22,0	7,2	67	2.783,-
4x0,75	28,8	8,0	86	3.440,-
5x0,75	36,0	8,7	105	4.346,-
2x1,0	19,2	7,0	63	2.661,-
3x1,0	28,8	7,5	82	3.227,-
4x1,0	38,4	8,2	99	3.670,-
5x1,0	48,0	9,0	119	4.505,-
2x1,5	28,8	8,2	83	3.357,-
3x1,5	43,2	8,6	102	3.989,-
4x1,5	57,6	9,7	125	4.980,-
5x1,5	72,0	10,5	153	5.510,-
2x2,5	48,0	9,8	138	4.976,-
3x2,5	72,0	10,0	158	5.447,-
4x2,5	96,0	11,1	195	5.992,-
5x2,5	120,0	13,0	240	7.060,-