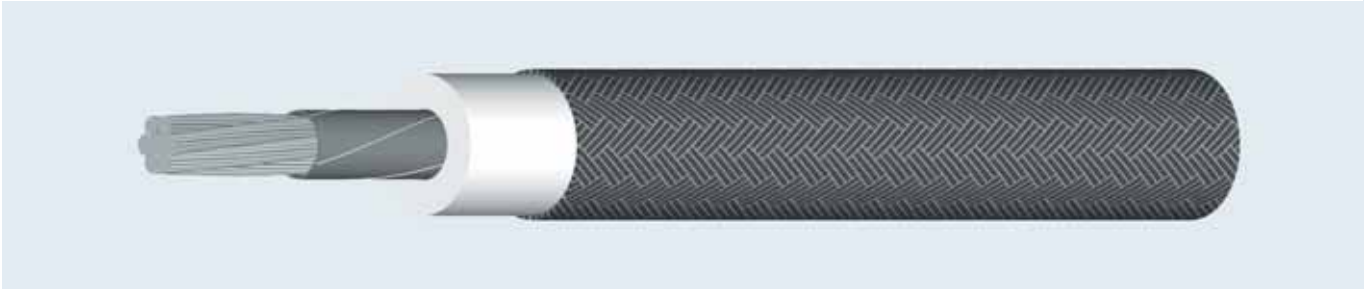
SiF-HV 3,7 kV, 6,6 kV, 13,8 kV

Fibre braided silicone cables



Cable structure

- Tinned, copper core, stranded IEC 60228 cl.5
- Separating foil
- Core insulation of special silicone rubber
- Braiding of synthetic fibre (without braiding available on request), color brown 3,7 kV; color grey 6,6 kV; color black 13,8 kV

Test

- Flame retardant according to IEC 60332-1 and IEC 60332-3

Advantages

- fire-resistant
- good mechanical resistance
- resistant to UV radiation, temperature shock, ozone and oxygen
- good resistance to corrosion effect
- good ageing coefficient at higher temperatures
- good adhesion to impregnating paint

Technical data

- Special silicone cable, extensively heat resistant
- **Temperature range** from -60 °C to +180 °C
  short-term +230 °C
- **Nominal voltage** from 3,7 kV to 4,2 kV
  6,6 kV to 7,2 kV
  13,8 kV to 15 kV
- **Test voltage a.c.** from 3,7 kV = 10 kV
  6,6 kV = 15 kV
  13,8 kV = 30 kV
- **Minimum bending radius** 5× cable diameter

Application

These heat resistant, single-core cables are used for inner connection in electrical rotation machines: engines, alternators, generators as well as stationary units such as transformators inductors, controllers, converters etc. These cables are used for installations in ship construction, rail vehicles, buses, trolleys and transport systems as well as for outer application. The main cable characteristics are heat and mechanical resistance for a long period of time as well as flame retardancy.

Note

CE = the product is conformed with the EC Low-Voltage Directive 73/23/EEC
Conforms to RoHS.
Different insulation colors and cross-sections are available on request.
In case of cable for nominal volatge 1,1 kV please contact our sales representatives.
Packing: rings or drums

Part No.	core cross-section [mm²]	Approx. outer ∅ [mm]	Cooper weight [kg/km]	Approx. cable weight [kg/km]
SiF-HV 3,7 kV				
04237002	2,5	6,2	24,0	57,0
04238002	4	6,8	38,0	75,0
04239002	6	7,8	58,0	102,0
04239502	10	9,0	96,0	150,0
04239512	16	10,2	154,0	212,0
04239522	25	11,8	240,0	305,0
04239532	35	13,2	336,0	413,0
04239542	50	15,4	480,0	575,0
04239552	70	17,0	672,0	782,0
04239562	95	19,8	912,0	1030,0
04239572	120	21,8	1152,0	1290,0
04239582	150	24,0	1440,0	1580,0
04239592	185	25,4	1776,0	1890,0
04239602	240	29,2	2304,0	2451,0
04239612	300	31,8	2880,0	3120,0
04239622	400	35,8	3840,0	4160,0
SiF-HV 6,6 kV				
04238003	4	8,2	38,0	95,0
04239003	6	9,1	58,0	120,0
04239503	10	10,3	96,0	172,0
04239513	16	11,5	154,0	238,0
04239523	25	13,0	240,0	330,0
04239533	35	14,6	336,0	440,0
04239543	50	16,7	480,0	612,0
04239553	70	18,3	672,0	825,0
04239563	95	20,5	912,0	1060,0
04239573	120	22,6	1152,0	1315,0
04239583	150	24,9	1440,0	1630,0
04239593	185	26,4	1776,0	1935,0
04239603	240	30,2	2304,0	2510,0
04239613	300	32,9	2880,0	3180,0
04239623	400	37,0	3840,0	4210,0
SiF-HV 13,8 kV				
04239004	6	11,8	58,0	175,0
04239504	10	13,0	96,0	232,0
04239514	16	14,2	154,0	303,0
04239524	25	15,7	240,0	407,0
04239534	35	17,2	336,0	522,0
04239544	50	18,9	480,0	690,0
04239554	70	20,7	672,0	907,0
04239564	95	22,7	912,0	1160,0
04239574	120	24,7	1152,0	1415,0
04239584	150	27,4	1440,0	1758,0
04239594	185	28,9	1776,0	2050,0
04239604	240	32,7	2304,0	2660,0
04239614	300	35,3	2880,0	3330,0
04239624	400	39,6	3840,0	4360,0