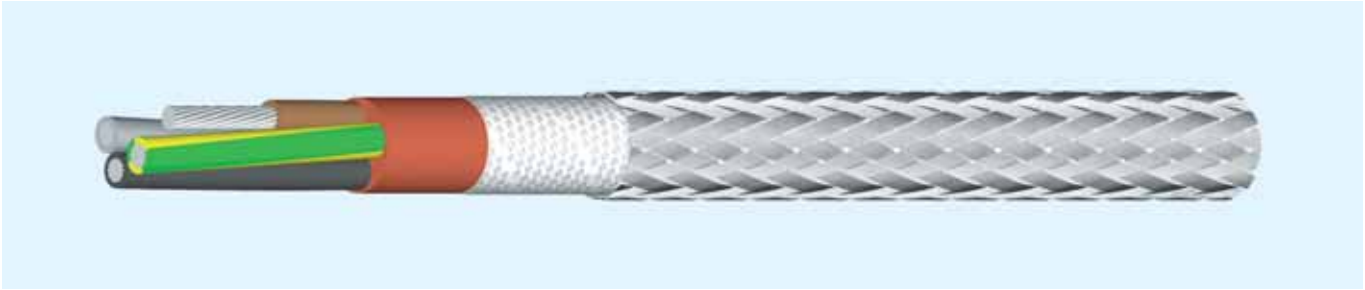
SiHF/GL-P

Silicone halogen-free cables with steel braiding



Cable structure

- Tinned copper conductor, according to DIN VDE 0295 cl. 5 IEC 60228 cl.5
- Silicone core insulation
- Color coded cores according to DIN VDE 0293
- For two cores cable, colors brown and blue
- Cores stranded in layers with optimal lay-lenght
- Green-yellow earth core in the outer layer, from 3 cores and more
- Silicone outer sheath
- Protective glass fibre tape over the outer sheath
- Galvanized steel wire outer braiding

Technical data

- Special silicone cable, extensively heat resistant
- **Temperature range** from -60 °C to +180 °C, short time +200 °C
- **Nominal voltage** U_O/U 300/500 V
- **Test voltage a.c.** 2000 V
- **Spark test** min. 5000 V
- **Insulation resistance** min. 200 MΩ × km
- **Minimum bending radius** approx. 7,5× cable diameter
- **Radiation resistance** up to 20×10^6 cJ/kg (up to 20 Mrad)
- **Halogen-free** to DIN VDE 0482 part 267/EN 50267-2-1/ IEC 60754-1
- **Self-extinguishing and flame retardant** sheath according to DIN VDE 0482 part 265-2-1/EN 50265-2-1/IEC 60332-1

Advantages

- Low changes of dielectric strenght and insulation resistance at high temperatures
- High ignition point, in case of fire forms an insulating layer SiO_2

Application

These silicone cables are used in all areas with permanently high temperatures up to 180 °C, short term up to 200 °C, as well as for areas with low temperatures up to -60 °C. Silicone cables are halogen-free and are used in power plants, in iron mills, steel-works, rolling-mills, in aviation and ship industry in cement, glass and ceramic factories etc. The screened steel braiding ensures a disturbance-free transmission of signals and impulses.

Resistant to

high molecular oils, fats, alcohols, oxygen, sea water, weather-proofed.

Note

Fixed installation only in open or ventilated pipe systems or ducts. Otherwise the mechanical properties of the silicone are reduced in the enclosed areas with air temperatures exceeding 90°C

CE = the product is conformed with the EC Low-Voltage Directive 73/23/EEC.

Conforms to RoHS.

Part No.	Number of cores x core cross section [mm²]	Approx. outer ∅ [mm]	Cooper weight [kg/km]	Approx. cable weight [kg/km]
0423062	2×0,75	7,9	14,4	90
0423063	3×0,75	8,3	21,6	101
0423064	4×0,75	9,3	29,0	129
0423065	5×0,75	10,0	36,0	157
0423067	7×0,75	10,7	50,0	177
0423068	2×1	8,0	19,0	97
0423069	3×1	8,9	29,0	122
0423070	4×1	9,4	38,0	141
0423071	5×1	10,4	48,0	166
0423073	7×1	11,1	67,0	197
0423074	2×1,5	9,0	29,0	127
0423075	3×1,5	9,5	43,0	145
0423076	4×1,5	10,3	58,0	173
0423077	5×1,5	11,0	72,0	202
0423078	6×1,5	11,7	86,0	240
0423079	7×1,5	12,4	101,0	244
0423080	8×1,5	13,0	115,0	261
0423081	12×1,5	15,5	173,0	327
0423082	14×1,5	16,2	202,0	382
0423083	18×1,5	18,7	259,0	440
0423084	24×1,5	21,5	346,0	600
0423085	2 × 2,5	10,7	48,0	187

Part No.	Number of cores x core cross section [mm²]	Approx. outer ∅ [mm]	Cooper weight [kg/km]	Approx. cable weight [kg/km]
0423086	3×2,5	11,2	72,0	205
0423087	4×2,5	12,1	96,0	278
0423088	5×2,5	13,3	120,0	322
0423089	6×2,5	14,3	144,0	351
0423090	7×2,5	15,4	168,0	380
0423091	2×4	12,5	77,0	240
0423092	3×4	13,0	115,0	311
0423093	4×4	15,0	154,0	384
0423094	5×4	16,0	192,0	454
0423095	7×4	17,5	269,0	633
0423096	2×6	15,1	115,0	321
0423097	3×6	15,9	173,0	432
0423098	4×6	18,0	230,0	544
0423099	5×6	19,4	288,0	656
0423100	7×6	20,7	403,0	768
0423101	4×10	22,1	384,0	925
0423102	4×16	26,1	614,0	1235
0423103	4×25	30,4	960,0	1700