

SiHF/GL-P

Silicone multicore cable, steel braiding, halogen-free



Technical data

- Special silicone multicore cable with higher heat-resistance range adapted to DIN VDE 0250-1 / DIN VDE 0285-525-2-83 / DIN EN 50525-2-83
- **Temperature range**
flexing +5°C to +180°C
fixed installation -60°C to +180°C
- Permissible **operating temperature** at the conductor +180°C
- **Nominal voltage**
U₀/U 300/500 V
- **Test voltage**
2000 V
- **Breakdown voltage**
4000 V
- **Minimum bending radius**
flexing 10x outer Ø
fixed installation 5x outer Ø

Cable structure

- Tinned copper conductor, fine wire acc. to DIN VDE 0295 cl.5 / IEC 60228 cl.5
- Core insulation of silicone (compound type EI2) acc. to DIN VDE 0207-363-1 / DIN EN 50363-1
- Core identification acc. to DIN VDE 0293-308
≤ 5 cores: coloured
≥ 6 cores: black with continuous white numbering
- GN-YE conductor, 3 cores and above
- Cores stranded in layers with optimal lay length
- Outer sheath of silicone (compound type EM9) acc. to DIN VDE 0207-363-2-1 / DIN EN 50363-2-1
- Glass fibre wrapping
- Galvanized steel wire outer braiding

Properties

- **Advantages**
hardly changes of dielectric strength and the insulation resistance also at high temperatures, high ignition or flash point, leave in case of fire an insulating layer of SiO₂
- For laying as a fixed installation only in open or ventilated pipe systems as well as in ducts. Otherwise the mechanical properties of the silicone are reduced by the enclosed air at temperatures exceeding 90°C.

Tests

- Corrosiveness of combustion gases acc. to DIN VDE 0482-267 / DIN EN 50267-2-2 / IEC 60754-2
- Flame retardant acc. to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2

Note

- G = with GN-YE conductor
x = without GN-YE conductor
- The conductor is metrically constructed (mm²). The AWG designation is approximate and purely informative.

Application

Silicone cables screened with steel braiding were evolved for use wherever insulation is subjected to extreme temperature changes. The good performance of the environmental resistant properties means that silicone cables can be used at temperatures down to -60°C. Silicone cables are halogen-free cables and are especially suited for installation in power stations. They have also found their uses in the steel producing industries, aviation industry, ship building as well as in ceramic, glass and cement factories. Only suitable for use in dry conditions.

CE = Product conforms with Low-Voltage Directive 2014/35/EU.

Part no.	No. cores x cross-sec. mm ²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
23062	2 x 0,75	7,5	14,4	90,0	19
23063	3 G 0,75	7,9	21,6	101,0	19
23064	4 G 0,75	8,7	29,0	129,0	19
23065	5 G 0,75	9,6	36,0	157,0	19
23067	7 G 0,75	10,3	50,0	177,0	19
23068	2 x 1	7,7	19,0	97,0	18
23069	3 G 1	8,1	29,0	122,0	18
23070	4 G 1	9,0	38,0	141,0	18
23071	5 G 1	9,9	48,0	166,0	18
23073	7 G 1	10,6	67,0	197,0	18
23074	2 x 1,5	8,7	29,0	127,0	16
23075	3 G 1,5	9,1	43,0	145,0	16
23076	4 G 1,5	9,9	58,0	173,0	16
23077	5 G 1,5	10,7	72,0	202,0	16
23078	6 G 1,5	11,5	86,0	240,0	16
23079	7 G 1,5	11,5	101,0	244,0	16
23080	8 G 1,5	12,4	115,0	261,0	16
23081	12 G 1,5	15,3	173,0	327,0	16
23082	14 G 1,5	16,0	202,0	382,0	16
23083	18 G 1,5	18,3	259,0	440,0	16

Part no.	No. cores x cross-sec. mm ²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
23084	24 G 1,5	21,1	346,0	600,0	16
23085	2 x 2,5	9,9	48,0	187,0	14
23086	3 G 2,5	10,8	72,0	205,0	14
23087	4 G 2,5	11,7	96,0	278,0	14
23088	5 G 2,5	12,7	120,0	322,0	14
23089	6 G 2,5	13,7	144,0	351,0	14
23090	7 G 2,5	13,7	168,0	380,0	14
23091	2 x 4	11,9	77,0	240,0	12
23092	3 G 4	12,6	115,0	311,0	12
23093	4 G 4	13,7	154,0	384,0	12
23094	5 G 4	15,2	192,0	454,0	12
23095	7 G 4	16,9	269,0	633,0	12
23096	2 x 6	13,5	115,0	321,0	10
23097	3 G 6	14,5	173,0	432,0	10
23098	4 G 6	16,0	230,0	544,0	10
23099	5 G 6	17,9	288,0	656,0	10
23100	7 G 6	19,9	403,0	768,0	10
23101	4 G 10	20,7	384,0	925,0	8
23102	4 G 16	22,7	614,0	1235,0	6
23103	4 G 25	27,7	960,0	1700,0	4

Dimensions and specifications may be changed without prior notice. (RE01)