SiHF/GL-P

increased temperature resistance, tinned wire, galvanised steel wire braid

TECHNICAL DATA

Silicone control and connection cable in alignment with DIN VDE 0250-1, DIN VDE 0285-525-2-83 / DIN EN 50525-2-83

Temperature range	flexible +5°C to +180°C fixed -60°C to +180°C
Permissible operating temperature of the conductor	+180°C
Nominal voltage	AC U_0/U 300/500 V
Test voltage core/core	2000 V
Breakdown voltage	4000 V
Minimum bending radius	flexible 10x Outer-Ø fixed 5x Outer-Ø

CABLE STRUCTURE

- Copper wire tinned, finely stranded acc. to DIN VDE 0295 Class 5 / IEC 60228 Class 5
- Core insulation: silicone
- Core identification acc. to DIN VDE 0293-308,
  2 - 5 core(s): colour coded
  6 - 24 core(s): black cores with consecutive labeling in white digits
- Protective conductor: starting with 3 cores,
  G = with protective conductor GN-YE, in the outer layer,
  x = without protective conductor
- Cores stranded in layers with optimal lay lengths
- Outer sheath: silicone
- Sheath colour: redbrown
- Glass silk tape wrapping
- Steel wire braid, galvanised

PROPERTIES

- halogen-free
- high flash point
- leaves an insulating layer of SiO_2 when exposed to flames
- no significant changes in dielectric strength and insulation resistance even at higher temperatures

TESTS

- halogen-free acc. to DIN VDE 0482-754-1 / DIN EN 60754-1 / IEC 60754-1
- corrosiveness of combustion gases acc. to DIN VDE 0482-754-2 / DIN EN 60754-2 / IEC 60754-2
- flame-retardant acc. to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2

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.

NOTES

- the conductor is metrically (mm²) constructed, AWG numbers are approximated, and are for reference only
- for fixed installation, always install in open, ventilated pipe or duct systems; otherwise, a combination of high temperatures above 90°C and the absence of air would affect the mechanical properties of silicone

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
23062	2 x 0.75	19	7.5	14.4	90.0
23063	3 G 0.75	19	7.9	21.6	101.0
23064	4 G 0.75	19	8.7	29.0	129.0
23065	5 G 0.75	19	9.6	36.0	157.0
23067	7 G 0.75	19	10.3	50.0	177.0
23068	2 x 1	18	7.7	19.0	97.0
23069	3 G 1	18	8.1	29.0	122.0
23070	4 G 1	18	9.0	38.0	141.0
23071	5 G 1	18	9.9	48.0	166.0
23073	7 G 1	18	10.6	67.0	197.0
23074	2 x 1.5	16	8.7	29.0	127.0
23075	3 G 1.5	16	9.1	43.0	145.0
23076	4 G 1.5	16	9.9	58.0	173.0
23077	5 G 1.5	16	10.7	72.0	202.0
23078	6 G 1.5	16	11.5	86.0	240.0
23079	7 G 1.5	16	11.5	101.0	244.0
23080	8 G 1.5	16	12.4	115.0	261.0
23081	12 G 1.5	16	15.3	173.0	327.0
23082	14 G 1.5	16	16.0	202.0	382.0

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
23083	18 G 1.5	16	18.3	259.0	440.0
23084	24 G 1.5	16	21.1	346.0	600.0
23085	2 x 2.5	14	9.9	48.0	187.0
23086	3 G 2.5	14	10.8	72.0	205.0
23087	4 G 2.5	14	11.7	96.0	278.0
23088	5 G 2.5	14	12.7	120.0	322.0
23089	6 G 2.5	14	13.7	144.0	351.0
23090	7 G 2.5	14	13.7	168.0	380.0
23091	2 x 4	12	11.9	77.0	240.0
23092	3 G 4	12	12.6	115.0	311.0
23093	4 G 4	12	13.7	154.0	384.0
23094	5 G 4	12	15.2	192.0	454.0
23095	7 G 4	12	16.9	269.0	633.0
23096	2 x 6	10	13.5	115.0	321.0
23097	3 G 6	10	14.5	173.0	432.0
23098	4 G 6	10	16.0	230.0	544.0
23099	5 G 6	10	17.9	288.0	656.0
23100	7 G 6	10	19.9	403.0	768.0
23101	4 G 10	8	20.7	384.0	925.0

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Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
23102	4 G 16	6	22.7	614.0	1235.0

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
23103	4 G 25	4	27.7	960.0	1700.0