

HEAT RESISTANT SILICONE CABLES



APPLICATIONS

SiHF are flexible silicone insulated and sheathed cables intended for use in wide range of temperature. The cables are suitable for industrial applications, such as steel plants or cement, glass and ceramic factories. They are also used in lighting devices and systems.

The cables are halogen free, as well oil and chemical resistant.

CONSTRUCTION

- flexible, multiwire conductors, stranded of tin-plated annealed copper wires, meeting requirements of class 5 per PN-EN 60228,
- silicone rubber insulation,
- colour of insulation:
 - 2 wires: brown, blue,
 - up to 5 wires: colours in accordance with PN-HD 308 standard,
 - above 5 wires: black and white conductor number printed on it,
 - from 3 wires: with a green-yellow protective conductor,
- insulated conductors laid-up in layers,
- silicone rubber cable sheath, red-brown colour.

CHARACTERISTICS

Conductor cross-section	mm ²	0,5	0,75	1,0	1,5	2,5	4,0	6,0	10,0	16,0
DC conductor resistance at 20°C, maximum	Ω/km	40.1	26.7	20.0	13.7	8.21	5.09	3.39	1.95	1.24

Operating voltage U ₀ /U	300/500 V	Minimum bending radius	7.5 x cable diameter
Voltage test	2000 V rms	for movable installation	4 x cable diameter
Insulation resistance, minimum	20 MΩ·km	for fixed installation	
Operating temperature range		Halogen-free	PN-EN 60754-1, PN-EN 60754-2
(adequate ventilation provided)	from - 60 to + 180°C	Cable combustibility	flame retardant
temporary	+ 200°C	Combustibility tests	PN-EN 60332-1-2, IEC 60332-1-2

CE = the cable meets requirements of the low voltage directive 2014/35/EU

Product No.	Number of conductors x conductor cross-section	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
	mm ²	mm	kg/km	kg/km
1272 006	2 x 0,5	5.4	9.6	42
1272 007	3 G 0,5	5.9	14.5	44
1272 008	3 x 0,5	5.9	14.5	44
1272 009	4 G 0,5	6.6	19.3	58
1272 010	4 x 0,5	6.6	19.3	58
1272 011	5 G 0,5	7.3	24.0	62
1272 012	5 x 0,5	7.3	24.0	62
1272 013	6 G 0,5	8.1	28.9	79
1272 014	7 G 0,5	8.1	33.7	85
1272 015	8 G 0,5	8.7	38.4	99
1272 016	10 G 0,5	10.4	48.1	124
1272 017	12 G 0,5	10.8	57.6	141
1272 018	16 G 0,5	12.3	76.7	186
1272 019	18 G 0,5	12.9	86.5	211
1272 020	25 G 0,5	15.4	120.0	271
1272 003	2 x 0,75	6.4	14.4	53
1272 021	3 G 0,75	6.7	21.6	63
1272 004	3 x 0,75	6.7	21.6	63
1272 022	4 G 0,75	7.5	29.0	83
1272 023	4 x 0,75	7.5	29.0	83
1272 024	5 G 0,75	8.4	36.0	101
1272 025	5 x 0,75	8.4	36.0	101
1272 026	6 G 0,75	9.5	43.0	115
1272 027	7 G 0,75	9.5	50.	124
1272 028	8 G 0,75	10.9	57.7	138
1272 029	10 G 0,75	11.8	72.1	156
1272 030	12 G 0,75	12.2	86.5	185
1272 031	16 G 0,75	13.8	115.2	218
1272 032	18 G 0,75	14.5	129.7	260
1272 033	2 x 1,0	6.7	19.0	59
1272 034	3 G 1,0	7.5	29.0	77
1272 035	3 x 1,0	7.5	29.0	77
1272 036	4 G 1,0	8.1	38.0	94
1272 037	4 x 1,0	8.1	38.0	94
1272 038	5 G 1,0	8.8	48.0	115
1272 039	5 x 1,0	8.8	48.0	115
1272 040	6 G 1,0	9.6	58.0	134
1272 041	7 G 1,0	9.6	67.0	144
1272 042	8 G 1,0	11.0	76.7	175
1272 043	10 G 1,0	12.4	96.1	216
1272 044	12 G 1,0	12.6	115.2	231
1272 045	16 G 1,0	14.3	153.5	302
1272 046	18 G 1,0	15.1	172.9	340
1272 047	2 x 1,5	7.8	29.0	81
1272 048	3 G 1,5	8.2	43.0	98
1272 049	3 x 1,5	8.2	43.0	98
1272 050	4 G 1,5	8.9	58.0	122
1272 051	4 x 1,5	8.9	58.0	122
1272 052	5 G 1,5	9.8	72.0	147

Product No.	Number of conductors x conductor cross-section	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
	mm ²	mm	kg/km	kg/km
1272 053	5 x 1,5	9.8	72.0	147
1272 054	6 G 1,5	10.8	86.0	173
1272 055	7 G 1,5	10.8	101.0	187
1272 056	8 G 1,5	12.7	114.0	213
1272 057	10 G 1,5	14.0	116.0	263
1272 058	12 G 1,5	14.7	173.0	314
1272 059	14 G 1,5	15.5	202.0	379
1272 060	16 G 1,5	16.4	231.0	445
1272 061	18 G 1,5	17.4	260.0	506
1272 062	20 G 1,5	18.2	288.0	566
1272 063	2 x 2,5	9.2	48.0	134
1272 064	3 G 2,5	9.7	72.0	152
1272 065	4 G 2,5	10.6	96.0	188
1272 066	5 G 2,5	11.6	120.0	228
1272 067	6 G 2,5	12.6	144.0	304
1272 068	7 G 2,5	12.6	168.0	320
1272 069	8 G 2,5	15.0	192.2	373
1272 070	10 G 2,5	16.6	241.0	450
1272 071	12 G 2,5	17.1	288.0	502
1272 072	16 G 2,5	19.6	384.0	659
1272 073	18 G 2,5	20.8	432.2	761
1272 005	2 x 4,0	10.6	77.0	180
1272 074	3 G 4,0	11.4	115.0	224
1272 075	4 G 4,0	13.0	154.0	295
1272 076	5 G 4,0	14.3	192.0	359
1272 077	7 G 4,0	15.5	269.0	479
1272 078	2 x 6,0	12.6	115.0	210
1272 079	3 G 6,0	13.3	173.0	270
1272 080	4 G 6,0	14.7	230.0	341
1272 081	5 G 6,0	16.4	288.0	432
1272 082	7 G 6,0	18.0	403.0	552
1272 083	2 x 10	15.4	192.0	400
1272 084	3 G 10	16.5	288.0	507
1272 085	4 G 10	18.5	384.0	644
1272 086	5 G 10	20.5	480.0	788
1272 087	7 G 10	22.6	672.2	1151
1272 088	2 x 16	19.0	308.0	591
1272 089	3 G 16	20.1	462.0	749
1272 090	4 G 16	22.2	616.0	950
1272 091	5 G 16	24.7	770.0	1204
1272 092	7 G 16	27.3	1075.3	1682

G - cables with green-yellow protective conductor

Other cross-sections and conductor counts available on request.
TECHNOKABEL S.A. reserves the right to change specifications without prior notice.