



HALLEY CABLES

SIMH-SPEC

Silicone Cable

High temperature operating (300° C), flexible, fire resistant cable



Construction:

Conductor	: flexible copper wires, plain.
Insulation	: special silicone rubber compound, 300° C.
Lay-up	: cores laid up in layers of optimum pitch.
Outer sheath	: special silicone rubber compound, 300° C.
Sheath colour	: RAL 3000, red.

Technical data and tests:

Rated voltage U ₀ /U	: 300 / 500V ; 450/750 V $\geq$ 4,0 mm ² .
Test voltage (AC 50 Hz)	: 2000 V ; 2500 V $\geq$ 4,0 mm ² .
Insulation resistance	: min. 100 M Ω /km.
Temperature at conductor	: + 300° C.
Short circuit temperature	: + 360° C.
Temperature range	: fixed : - 60° C ~ + 300° C; mobile : - 25° C ~ + 250° C.
Min. bending radius	: fixed : 4 x D; mobile : 7,5 x D.

Standards:

Cable	: VDE 0250, DIN VDE 0282-15 and HD 22.15 S1 (designed according to).
Conductor	: IEC 60228 class 5, DIN EN 60228 class 5.
Core identification	: DIN EN 50334 black cores with white numerals with green/yellow after 5 cores.
Flame retardance test	: IEC 60332-1 & EN 50265-2-1; IEC 60332-3 & EN 50266-2-4.
Insulation integrity	: IEC 60331, VDE 0472-814.

Applications:

This silicone insulated cable is used as mobile connection cable for equipment where high temperatures can arise as well as for ambient air temperature between -60° C and +300° C. This cable has more resistance against tearing and tensile strength with its special formulated silicone compound. This cable is used in all areas of low mechanical load e.g in ship building, power plants, cooking plants, glass and ceramic works, foundries, cookies plants, solarium and sauna installations for high power lighting fixtures etc.

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DIMENSIONS

No. of cores x cross section mm ²	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
2x0.50	5,7	9	40
3x0.50	6,0	14	50
4x0.50	6,7	19	65
5x0.50	7,3	24	75
6x0.50	8,1	29	80
7x0.50	8,1	33	85
2x0.75	6,3	14	50
3x0.75	6,8	22	65
4x0.75	7,5	29	85
5x0.75	8,3	36	105
6x0.75	9,0	43	120
7x0.75	9,0	50	130
2x1.0	6,7	19	65
3x1.0	7,1	29	80
4x1.0	7,7	38	100
5x1.0	8,6	48	125
6x1.0	9,5	58	145
7x1.0	9,5	67	150
2x1.5	7,5	29	90
3x1.5	7,9	43	105
4x1.5	8,8	58	140
5x1.5	9,6	72	165
6x1.5	10,4	86	195
7x1.5	10,4	101	205
8x1.5	11,5	116	250
10x1.5	12,6	144	300
12x1.5	14,1	173	340
14x1.5	15,0	202	390
16x1.5	15,8	231	470
18x1.5	16,8	260	530
20x1.5	17,7	288	570
24x1.5	19,9	346	720
2x2.5	8,9	48	125
3x2.5	9,4	72	150
4x2.5	10,5	96	190
5x2.5	11,6	120	240
6x2.5	12,6	144	290
7x2.5	12,6	168	300
12x2.5	17,0	288	550
2x4	10,6	77	190
3x4	11,2	115	240
4x4	12,5	154	280
5x4	13,9	192	355

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No. of cores x cross section mm ²	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
6x4	15,4	230	430
7x4	15,4	269	450
2x6	12,6	116	265
3x6	13,6	173	335
4x6	15,1	230	410
5x6	16,6	288	520
7x6	18,0	403	660
2x10	16,2	192	375
3x10	17,6	288	595
4x10	19,6	384	690
5x10	22,0	480	900
2x16	19,2	308	390
3x16	20,4	462	500
4x16	22,5	616	710
5x16	25,4	770	910
2x25	23,4	480	700
3x25	25,6	720	1050
4x25	28,0	960	1500
5x25	31,5	1200	1690
2x35	26,5	672	1050
3x35	28,2	1008	1420
4x35	31,8	1344	2000
4x50	38,0	1920	2570
4x70	40,5	2508	3250
4x95	49,2	3648	4700

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