



HALLEY CABLES

H05SSQS-K...(SIMH-S)

Silicone Cable

High temperature operating, silicone inner sheath and armoured cable



Construction:

Conductor	: flexible copper wires, plain.
Lay-up	: cores laid up in layers of optimum pitch.
Inner sheath	: silicone rubber compound, EM9.
Armour	: braid of galvanised steel wires, approx. 85 % coverage.
Outer sheath	: silicone rubber compound, EM9.
Sheath colour	: oxbrown-red.

Technical data and tests:

Rated voltage U_0/U	: 300 / 500 V.
Test voltage (AC 50 Hz)	: 2000 V.
Insulation resistance	: min. 20 M Ω /km.
Temperature at conductor	: + 180° C.
Short circuit temperature	: + 200° C.
Temperature range	: fixed : - 60° C ~ + 180° C; mobile : - 25° C ~ + 180° 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 construction	: IEC 60228 class 5, DIN EN 60228 class 5.
Core identification	: HD 308 S2 & VDE 0293-308. 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:

These silicone insulated, with inner sheath and steel wire braided armoured cables are used as mobile connection cables for equipment where high temperatures can arise as well as for ambient air temperatures between -60° C and +180° C. Furthermore, these cables are used in all areas where installation conditions are very difficult and have high mechanical loads e.g in ship building, power plants, cooking plants, glass and ceramic works, foundries, for high power lighting fixtures etc. The armour above the inner sheath acts as a bedding and protects the cores from any damage from the steel wires. The steel wire braid serves as protection against mechanical transverse loads and act as a magnetic screen against interference. The galvanised steel wires are free of corrosion and oxidation.



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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
2x0.75	8,8	14	95
3x0.75	9,3	22	125
4x0.75	10,2	29	150
5x0.75	10,8	36	170
7x0.75	12,1	50	205
2x1.0	9,3	19	140
3x1.0	10,0	29	175
4x1.0	10,4	38	205
5x1.0	11,4	48	245
7x1.0	12,3	67	275
2x1.5	10,3	29	180
3x1.5	10,8	43	200
4x1.5	11,6	58	260
5x1.5	12,8	72	290
7x1.5	13,6	101	345
12x1.5	17,4	173	435
16x1.5	19,3	231	685
24x1.5	22,4	346	1035
2x2.5	11,9	48	235
3x2.5	12,5	72	285
4x2.5	13,8	96	345
5x2.5	14,9	120	405
7x2.5	15,8	168	485
12x2.5	20,2	288	805
2x4	13,6	77	325
3x4	14,8	115	405
4x4	15,9	154	460
5x4	17,4	192	565
2x6	16,1	116	440
3x6	17,0	173	530
4x6	18,5	230	615
5x6	20,4	288	785
2x10	19,8	192	600
3x10	21,4	288	830
4x10	23,5	384	965

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