



# HALLEY CABLES

# H05SC4S-K / SIMH C1

## Silicone Cable

High temperature operating, screened, flexible connection cable



### Construction:

- Conductor : flexible copper wires, plain.
- Insulation : silicone rubber compound, EI2.
- Lay-up : cores laid up in layers of optimum pitch.
- Separator : polyester tape.
- Screen : braid of tinned copper wires, 85% coverage.
- Separator : polyester tape.
- Outer sheath : silicone rubber compound, EM9.
- Sheath colour : oxbrown-red.

### Technical data and tests:

- Rated voltage  $U_0/U$  : 300 / 500 V ; 450/750 V  $\geq$  4,0 mm<sup>2</sup>.
- Test voltage (AC 50 Hz) : 2000 V ; 2500 V  $\geq$  4,0 mm<sup>2</sup>.
- Insulation resistance : min. 20 M $\Omega$ /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:

- Standard : 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, sheathed and screened cables are used as mobile connection cables for equipment where high temperatures can arise as well as for ambient air temperature between -60° C and +180° C and environments which must be protected against external high electromagnetic fields. These cables are also used in mechanical engineering for instrumentation and control equipment for tooling machinery production lines. The screen protects against external pulses and ensures an interference-free transmission.



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## DIMENSIONS

No. of cores x cross section mm <sup>2</sup>	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
2x0.50	6,3	25	60
3x0.50	6,6	33	70
4x0.50	7,3	40	90
5x0.50	7,9	45	105
6x0,50	8,7	55	115
7x0.50	8,7	65	140
2x0.75	6,9	35	85
3x0.75	7,4	40	100
4x0.75	8,1	55	120
5x0.75	8,9	65	145
6x0.75	9,6	75	170
7x0.75	9,6	80	185
2x1.0	7,3	45	95
3x1.0	7,7	55	115
4x1.0	8,3	64	135
5x1.0	9,2	77	160
6x1.0	10,2	90	175
7x1.0	10,2	105	200
2x1.5	8,1	55	120
3x1.5	8,6	70	135
4x1.5	9,4	85	160
5x1.5	10,2	100	185
6x1.5	11,0	115	230
7x1.5	11,0	130	255
8x1.5	12,2	150	280
10x1.5	13,2	195	360
12x1.5	14,8	230	395
14x1.5	15,7	245	475
16x1.5	16,5	270	545
18x1.5	17,3	290	615
20x1.5	18,4	330	660
24x1.5	20,5	405	855
2x2.5	9,5	70	155
3x2.5	10,0	105	190
4x2.5	11,1	130	250
5x2.5	12,2	150	300
6x2.5	13,2	190	350
7x2.5	13,2	205	385
12x2.5	17,7	310	650
2x4	11,9	110	300
3x4	12,4	180	340
4x4	13,8	210	400
5x4	15,2	240	490
6x4	16,7	290	585
7x4	16,7	330	680
2x6	13,8	180	350
3x6	14,9	250	420
4x6	16,4	310	505
5x6	17,9	390	610
7x6	19,4	510	775
2x10	17,4	295	450
3x10	18,9	420	680
4x10	21,0	470	805
5x10	24,4	630	950

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