SIMH-FR FE 180

Silicone Cable

High temperature operation, fire resistant, halogen free, flexible cable

Construction:

Conductor	: flexible copper wires, plain.
Insulation	: special silicone rubber compound.
Lay-up	: cores laid up in layers of optimum pitch.
Outer sheath	: special silicone rubber compound.
Sheath colour	: RAL 2009, orange.

Technical data and tests:

Rated voltage Uo/U	: 300 / 500 V ; 450/750 V ≥ 4,0 mm²
Test voltage (AC 50 Hz)	: 2000 V ; 2500 V ≥ 4,0 mm²
Insulation resistance	: min. 20 MΩ/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.

*Fire resistant with mechanical shock : DIN EN 50200 ; PH 15 (15 minutes) ; PH 30 (30 minutes); PH 60 (60 minutes); PH 90 (90 minutes). *Upon request

Standards:

Cable	: VDE 0250, DIN VDE 0282-15 and HD 22.15 S1 (designed according to).
Conductor	: IEC 60228 class 5, TS/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:

This fire resistant and halogen free cable is used for control and power supply. On the basis of a fixed operating mode, it can continue supplying power for a period of 180 minutes under fire conditions (750° C and exposed to fire). Upon request, this cable can satisfy the EN 50200 test which is a fire resistant with mechanical shock test (842° C and mechanical shock) for the classes PH15-PH30-PH60-PH90. Because of its unique features, it can be used in fire alarm systems, in equipment and devices which are connected to fire alarm devices, in environments which have no corrosive gases emitted in the event of fire. This cable is used in schools, airports, hospitals, etc.

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HALLEY CABLES

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www.halleycables.com

DIMENSIONS

No. of cores x cross section mm²	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
3x0.50	6,0	14	55
4x0.50	6,7	19	70
5x0.50	7,3	24	80
6x0,50	8,1	29	85
7x0.50	8,1	33	90
2x0.75	63	14	55
3x0.75	68	22	70
4x0.75	75	29	90
5x0.75	83	36	110
6x0.75	90	43	115
7x0.75	90	50	130
2x0.50	5,7	9	45
2x1.0	67	19	70
3x1.0	71	29	85
4x1.0	77	38	100
5x1.0	86	48	125
6x1.0	95	58	150
7x1.0	95	67	160
2x1.5	7,5	29	90
3x1.5	7,9	43	110
4x1.5	8,8	58	145
5x1.5	9,6	72	170
6x1.5	10,4	86	200
7x1.5	10,4	101	210
8x1.5	11,5	116	260
10x1.5	12,6	144	310
12x1.5	14,1	173	350
14x1.5	15,0	202	405
16x1.5	15,8	231	485
18x1.5	16,8	260	565
20x1.5	17,7	288	610
24x1.5	19,9	346	770
2x2.5	8,9	48	130
3x2.5	9,4	72	160
4x2.5	10,5	96	200
5x2.5	11,6	120	250
6x2.5	12,6	144	300
7x2.5	12,6	168	320
12x2.5	17,0	288	580
2x4	10,6	77	190
3x4	11,2	115	240
4x4	12,5	154	280
5x4	13,9	192	355

IEC CE VDE RoHS PG TSE

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DIMENSIONS

No. of cores x cross section mm²	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
6x4	15,4	230	450
7x4	15,4	269	460
2x6	12,6	116	270
3x6	13,6	173	340
4x6	15,1	230	415
5x6	16,6	288	520
7x6	18,0	403	680
2x10	16,2	192	380
3x10	17,6	288	600
4x10	19,6	384	700
5x10	22,0	480	910
2x16	19,2	308	390
3x16	20,4	462	510
4x16	22,5	616	730
5x16	25,4	770	960
2x25	23,4	480	710
3x25	25,6	720	1100
4x25	28,0	960	1580
5x25	31,5	1200	1710
2x35	26,5	672	1130
3x35	28,2	1008	1500
4x35	31,8	1344	2170
4x50	38,0	1920	2570
4x70	40,5	2508	3450
4x95	49,2	3648	4925

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