



HALLEY CABLES

RE-2G(St)H-CI FE180 90° C

CU/SH/OSCR/LSZH

Instrumentation and Control Cables 500 V

Silicone insulated, collective screened, HFFR sheathed cable

RE-2G(St)H-CI FE180



Construction:

Conductor	: stranded copper wires, class 2.
Insulation	: special silicone rubber compound.
Lay-up	: triples laid up in layers of optimum pitch.
Separator	: polyester tape.
Screen	: AL-PES tape over stranded tinned copper drain wire 0,50 mm ² .
Outer sheath	: HFFR compound.
Sheath colour	: RAL 9005, black or RAL 5015, blue.

Technical data and tests:

Rated voltage	: 500 V.
Test voltage	: Urms core-core : 2000 V; Urms core-screen : 2000 V.
Temperature range : operation	: - 30° C ~ + 90° C;
installation	: - 5° C ~ + 50° C.
Min. bending radius:	: 7.5 x D.

Standards:

Design	: EN 50288-7.
Conductor	: IEC 60228 class 2, DIN EN 60228 class 2.
Outer sheath	: EN 50290-2-27.
Flame test	: IEC 60332-1 & DIN EN 60332-1. IEC 60332-3 & DIN EN 50266-2-4.
Smoke density	: IEC 61034-2 & DIN EN 61034-2.
Halogen-free	: IEC 60754-1/2 & DIN EN 50267-2.
Circ. integrity (CI)	: IEC 60331, VDE 0472-814; BS 6387 cat. CWZ.

Applications:

These cables are used for control purposes (e.g. controlling of pumps, valves or engines) at chemistry and petrochemistry industry plants, power plants, natural gas and petroleum plants, etc... These cables are used in environments which must have no corrosive gases emitted in the event of fire. In case of fire, these cables inhibit the propagation of the flames whereby the development of smoke is extremely low. Instrumentation cables are not allowed for direct connection to a low impedance source, e.g. public mains electricity supply. With blue sheath it is suitable for intrinsically safe systems. These cables are not recommended for direct burial. They are for indoor and outdoor installation, in dry and wet locations; on racks, trays, in conduits.

Technical data and tests:

Conductor resistance	: 0,50 mm ² : 36,0 Ω/km; 0,75 mm ² : 24,5 Ω/km; 1,0 mm ² : 18,1 Ω/km; 1,3 mm ² : 13,9 Ω/km; 1,5 mm ² : 12,1 Ω/km; 2,5 mm ² : 7,4 Ω/km.
Insulation resistance	: min. 300 MΩ/km.
Mutual capacitance (1 kHz)	: max. 190 pF/m.
L / R (ratio) (max.)	: 0,50 mm ² : 25 μH/Ω; 0,75 mm ² : 25 μH/Ω; 1,0 mm ² : 25 μH/Ω; 1,3 mm ² : 40 μH/Ω; 1,5 mm ² : 40 μH/Ω; 2,5 mm ² : 60 μH/Ω.

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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	6,4	14	50
2x0,75	7,0	19	60
2x1	7,2	24	65
2x1,3	7,6	30	75
2x1,5	8,0	34	85
2x2,5	9,4	34	95
3x0,50	6,7	19	60
3x0,75	7,4	26	75
3x1	7,6	34	80
3x1,3	8,2	42	100
3x1,5	8,4	48	105
3x2,5	10,0	48	125
4x0,50	7,3	24	70
4x0,75	8,0	34	90
4x1	8,5	43	105
4x1,3	8,9	55	120
4x1,5	9,2	62	130
4x2,5	11,1	62	160
5x0,50	7,9	29	80
5x0,75	8,9	41	110
5x1	9,2	53	120
5x1,3	9,7	67	145
5x1,5	10,0	77	155
5x2,5	12,1	77	190
6x0,50	8,7	34	100
6x0,75	9,6	48	125
6x1	9,9	62	140
6x1,3	10,5	80	165
6x1,5	11,0	91	185
6x2,5	13,1	91	220
8x0,50	9,6	43	120
8x0,75	10,7	62	155
8x1	11,2	82	180
8x1,3	11,9	105	215
8x1,5	12,3	120	235
8x2,5	14,9	120	280
10x0,50	11,0	53	150
10x0,75	12,2	77	190
10x1	12,6	101	220
10x1,3	13,6	130	270
10x1,5	14,0	149	290
10x2,5	17,0	149	350

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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
12x0,50	11,3	62	170
12x0,75	12,6	91	220
12x1	13,0	120	250
12x1,3	14,0	155	310
12x1,5	14,4	178	335
12x2,5	17,6	178	400
14x0,50	11,9	72	190
14x0,75	13,2	106	250
14x1	13,6	139	285
14x1,3	14,7	180	350
14x1,5	15,1	206	380
14x2,5	18,4	206	455
16x0,50	12,5	82	215
16x0,75	13,9	120	275
16x1	14,6	158	330
16x1,3	15,5	204	390
16x1,5	16,2	235	435
16x2,5	19,7	235	520
20x0,50	14,0	101	265
20x0,75	15,6	149	345
20x1	16,1	197	400
20x1,3	17,4	254	485
20x1,5	17,9	293	530
20x2,5	22,1	293	645
24x0,50	15,4	120	305
24x0,75	17,4	178	410
24x1	18,0	235	475
24x1,3	19,4	304	580
24x1,5	20,0	350	635
24x2,5	24,4	350	760
27x0,50	15,7	134	335
27x0,75	17,8	199	450
27x1	18,4	264	525
27x1,3	19,8	342	640
27x1,5	20,4	394	700
27x2,5	25,1	394	845
30x0,50	16,3	149	365
30x0,75	18,4	221	495
30x1	19,0	293	575
30x1,3	20,5	379	700
30x1,5	21,1	437	770
30x2,5	26,0	437	925

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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
37x0,50	17,7	182	445
37x0,75	19,8	271	590
37x1	20,7	360	700
37x1,3	22,3	467	855
37x1,5	23,0	538	940
37x2,5	28,3	538	1125
40x0,50	18,4	197	475
40x0,75	20,8	293	645
40x1	21,5	389	750
40x1,3	23,2	504	915
40x1,5	24,1	581	1020
40x2,5	29,5	581	1210

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