



HALLEY CABLES

RE-2G(St)H-CI FE180 MP 90° C

CU/SH/OSCR/LSZH

Instrumentation Cables 500 V

Silicone insulated, collective screened, HFFR sheathed cable

RE-2G(St)H-CI FE180 MP



Construction:

- Conductor : stranded copper wires, class 2.
- Insulation : special silicone rubber compound.
- Pair : two conductors twisted to a pair.
- Lay-up : pairs laid up in layers of optimum pitch.
- Separator : polyester tape.
- Screen : AL-PES tape over stranded tinned copper drain wire 0,50 mm².
- Outer sheath : HFFR compound.
- Sheath colour : RAL 9005, black or RAL 5015, blue.
- Core identification : black / blue cores numbered 1-1, 2-2,... Upon request colour coded according to IEC 60189-2.
- Note : other core configurations manufactured upon request.

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.

Technical data and tests:

- Conductor resistance (20° C) : 0,50 mm² : 36,7 Ω/km;
0,75 mm² : 25,0 Ω/km;
1,0 mm² : 18,5 Ω/km;
1,3 mm² : 14,2 Ω/km;
1,5 mm² : 12,3 Ω/km.
 - Insulation resistance (20° C) : min. 300 MΩ/km.
 - Mutual capacitance : max. 100 pF/m.
 - L / R (ratio) (max.) : ≤ 4 pairs
- | | |
|---------------------------------------|------------------------|
| | <u>all other pairs</u> |
| 0,50 mm ² : max. 150 pF/m; | max. 100 pF/m; |
| 0,75 mm ² : max. 150 pF/m; | max. 100 pF/m; |
| 1,0 mm ² : max. 150 pF/m; | max. 100 pF/m; |
| 1,3 mm ² : max. 150 pF/m; | max. 100 pF/m; |
| 1,5 mm ² : max. 150 pF/m. | max. 100 pF/m. |

Applications:

These cables are used for transmission of analogue and digital signals in instrumentation and control systems at chemistry and petrochemistry industry plants, power plants, natural gas and petroleum plants, etc... These cables are used in a fixed operating mode, and can continue the supply of power under existing fire conditions and in environments which have no corrosive gases emitted in the event of fire. In case of fire, these cables inhibit the propagation of the flames and 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.





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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
1x2x0,50	6,4	14	45
1x2x0,75	7,0	19	55
1x2x1	7,2	24	60
1x2x1,3	7,6	30	70
1x2x1,5	7,8	34	75
2x2x0,50	9,5	24	80
2x2x0,75	10,5	34	100
2x2x1	11,0	43	115
2x2x1,3	11,7	55	135
2x2x1,5	12,1	62	145
4x2x0,50	11,3	43	130
4x2x0,75	12,5	62	165
4x2x1	12,9	82	185
4x2x1,3	13,9	105	225
4x2x1,5	14,4	120	245
5x2x0,50	11,8	53	150
5x2x0,75	13,1	77	190
5x2x1	13,8	101	225
5x2x1,3	14,6	130	265
5x2x1,5	15,1	149	290
6x2x0,50	12,7	62	170
6x2x0,75	14,3	91	230
6x2x1	14,8	120	260
6x2x1,3	15,8	155	310
6x2x1,5	16,4	178	345
8x2x0,50	14,4	82	225
8x2x0,75	16,3	120	295
8x2x1	16,9	158	340
8x2x1,3	18,0	204	400
8x2x1,5	18,5	235	440
10x2x0,50	15,8	101	265
10x2x0,75	17,9	149	355
10x2x1	18,5	197	405
10x2x1,3	19,9	254	495
10x2x1,5	20,6	293	540
12x2x0,50	17,3	120	315
12x2x0,75	19,5	178	420
12x2x1	20,2	235	485
12x2x1,3	21,7	304	590
12x2x1,5	22,4	350	645
16x2x0,50	19,7	158	410

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16x2x0,75	22,2	235	545
16x2x1	23,0	312	630
16x2x1,3	24,8	404	765
16x2x1,5	25,6	466	840
20x2x0,50	21,8	197	505
20x2x0,75	24,6	293	670
20x2x1	25,5	389	775
20x2x1,3	27,5	504	945
20x2x1,5	28,3	581	1035
24x2x0,50	23,6	235	585
24x2x0,75	26,6	350	785
24x2x1	27,8	466	925
24x2x1,3	29,9	604	1120
24x2x1,5	30,9	696	1230

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