



HALLEY CABLES

RE-2X(St)H MP 90° C

CU/XLPE/OSCR/LSZH

Instrumentation Cables HFFR DK 500 V

XLPE insulated, collective screened, HFFR sheathed cable



Construction:

- Conductor : plain copper wire, stranded.
- Insulation : XLPE compound (RE-2X...).
- Core identification : black / blue cores numbered 1-1, 2-2, ... Upon request: colour coded according to IEC 60189-2.
- 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.

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.
- Insulation resistance : min. 5000 MΩ/km.

Standards:

- Design : EN 50288-7.
- Conductor : IEC 60228 class 2, DIN EN 60228 class 2.
- Insulation : EN 50290-2-29.
- Outer sheath : EN 50290-2-27.
- Flame test : IEC 60332-1 & 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.

Applications:

These cables are used for transmission of analogue and digital signals in instrumentation and control systems in 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 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.
- L/R (ratio) (max) : 0,50 mm² : 25 μH/Ω;
0,75 mm² : 25 μH/Ω;
1,0 mm² : 25 μH/Ω;
1,3 mm² : 40 μH/Ω;
1,5 mm² : 40 μH/Ω.
- Mutual Capacitance : ≤ 4 pairs all other pairs
0,50 mm² : max. 100 pF/m max. 65 pF/m;
0,75 mm² : max. 100 pF/m max. 65 pF/m;
1,0 mm² : max. 100 pF/m max. 65 pF/m;
1,3 mm² : max. 100 pF/m max. 75 pF/m;
1,5 mm² : max. 100 pF/m max. 75 pF/m.
- Capacitance unbalanced: (1 kHz) : max. 500 pF/500 m.

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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	6,2	14	45
1x2x0,75	6,6	19	50
1x2x1	7,0	24	60
1x2x1,3	7,5	30	65
1x2x1,5	7,8	34	75
2x2x0,50	9,2	24	75
2x2x0,75	9,8	34	90
2x2x1	10,5	43	105
2x2x1,3	11,5	55	125
2x2x1,5	12,1	62	140
4x2x0,50	10,9	43	115
4x2x0,75	11,7	62	140
4x2x1	12,5	82	170
4x2x1,3	13,7	105	210
4x2x1,5	14,4	120	230
5x2x0,50	11,4	53	135
5x2x0,75	12,2	77	165
5x2x1	13,1	101	200
5x2x1,3	14,4	130	245
5x2x1,5	15,1	149	270
6x2x0,50	12,2	62	155
6x2x0,75	13,2	91	190
6x2x1	14,3	120	235
6x2x1,3	15,5	155	285
6x2x1,5	16,4	178	325
8x2x0,50	13,9	82	195
8x2x0,75	15,0	120	245
8x2x1	16,3	158	305
8x2x1,3	17,7	204	370
8x2x1,5	18,5	235	410
10x2x0,50	15,2	101	235
10x2x0,75	16,6	149	305
10x2x1	17,9	197	365
10x2x1,3	19,6	254	455
10x2x1,5	20,6	293	510
12x2x0,50	16,6	120	275
12x2x0,75	17,9	178	350





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12x2x1	19,5	235	435
12x2x1,3	21,2	304	530
12x2x1,5	22,4	350	605
16x2x0,50	18,7	158	350
16x2x0,75	20,4	235	455
16x2x1	22,2	312	565
16x2x1,3	24,4	404	705
16x2x1,5	25,6	466	785
20x2x0,50	20,7	197	430
20x2x0,75	22,7	293	560
20x2x1	24,6	389	695
20x2x1,3	27,0	504	865
20x2x1,5	28,3	581	970
24x2x0,50	22,6	235	510
24x2x0,75	24,7	350	665
24x2x1	26,6	466	815
24x2x1,3	29,2	604	1015
24x2x1,5	30,9	696	1150

