



HALLEY CABLES

RE-2X(St)HSWAH 90° C CU/XLPE/OSCR/LSZH/SWA/LSZH Instrumentation Cables HFFR DK 500 V

XLPE insulated, screened, armoured, HFFR sheathed cable

www.halleycables.com

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Construction:

- Conductor : plain copper wire, stranded.
- Insulation : XLPE compound (RE-2X...).
- Core identification : black / blue / red numbered 1-1-1, 2-2-2,... Other core configurations manufactured upon request. Upon request: color coded according to IEC 60189-2.
- Triple : three conductors twisted to a triple.
- 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 mm².
- Inner/outer sheath : HFFR compound
- Armour : galvanized round steel wire.
- 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 : 10 x D.
- Insulation resistance : min. 5000 MΩ/km.

Standards:

- Design : DIN EN 50288-7.
- Conductor : IEC 60228 class 2, DIN EN 60228 class 2.
- Insulation : EN 50290-2-29.
- Inner/outer sheath : EN 50290-2-27.
- Armour : EN 10257-1.
- 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:

- Mutual capacitance : max 100 pF/m.
- 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.



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DIMENSIONS

No. of cores x cross section mm ²	Approx. bedding diameter mm	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
1x3x0,50	6,7	11,1	19	225
1x3x0,75	7,1	11,7	26	250
1x3x1	7,5	12,1	34	270
1x3x1,3	8,0	12,6	42	295
1x3x1,5	8,4	13,0	48	315
2x3x0,50	10,2	14,8	34	350
2x3x0,75	10,9	15,7	48	395
2x3x1	11,7	16,5	62	435
2x3x1,3	12,7	17,5	80	485
2x3x1,5	13,3	18,1	91	515
4x3x0,50	11,7	16,5	62	445
4x3x0,75	12,6	17,4	91	505
4x3x1	13,5	18,3	120	565
4x3x1,3	14,7	20,4	155	745
4x3x1,5	15,4	21,1	177	800
5x3x0,50	12,5	17,3	77	490
5x3x0,75	13,5	18,3	113	560
5x3x1	14,5	19,5	149	640
5x3x1,3	15,8	21,5	192	835
5x3x1,5	16,5	22,2	220	895
6x3x0,50	13,5	18,3	91	540
6x3x0,75	14,6	19,6	134	630
6x3x1	15,7	21,4	178	815
6x3x1,3	17,1	23,0	230	940
6x3x1,5	17,9	23,8	264	1010
8x3x0,50	15,2	20,9	120	745
8x3x0,75	16,5	22,2	177	855
8x3x1	17,7	23,6	235	980
8x3x1,3	19,3	25,2	304	1120
8x3x1,5	20,3	26,2	350	1205
10x3x0,50	16,7	22,4	149	840
10x3x0,75	18,1	24,0	221	985
10x3x1	19,6	25,5	293	1120
10x3x1,3	21,3	27,4	379	1300
10x3x1,5	22,4	28,5	436	1410
12x3x0,50	18,1	24,0	178	945
12x3x0,75	19,6	25,5	264	1100

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12x3x1	21,2	27,3	350	1270
12x3x1,3	23,1	29,2	454	1465
12x3x1,5	24,7	31,7	523	1805
16x3x0,50	20,5	26,4	235	1120
16x3x0,75	22,3	28,4	350	1330
16x3x1	24,5	31,5	466	1740
16x3x1,3	26,8	33,8	604	2010
16x3x1,5	28,1	35,3	696	2190
20x3x0,50	22,6	28,7	293	1295
20x3x0,75	25,0	32,0	437	1750
20x3x1	27,1	34,3	581	2025
20x3x1,3	29,6	36,8	754	2345
20x3x1,5	31,1	38,5	868	2565
24x3x0,50	24,9	31,9	350	1670
24x3x0,75	27,2	34,4	523	1980
24x3x1	29,4	36,6	696	2280
24x3x1,3	32,1	39,5	903	2675
24x3x1,5	34,2	42,6	1041	3240

