



HALLEY CABLES

RE-2X(St)Y-fl MP 90° C

CU/XLPE/OSCR/PVC

Instrumentation Cables PVC DK PE 500 V

XLPE insulated, collective screened, PVC sheathed cable

www.halleycables.com



Construction:

- Conductor : plain copper wire, stranded.
- Insulation : XLPE compound (RE-2X...).
- Core identification : black / white 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 : PVC compound, 90° C.
- 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 : DIN EN 50288-7.
- Conductor : IEC 60228 class 2, DIN EN 60228 class 2.
- Insulation : EN 50290-2-29.
- Outer sheath : EN 50290-2-22.
- Flame retardancy : IEC 60332-1 & EN 60332-1.

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... . 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.
- Insulation thickness : 0,50 mm² : 0,40 mm;
0,75 mm² : 0,40 mm;
1,0 mm² : 0,40 mm;
1,3 mm² : 0,45 mm;
1,5 mm² : 0,45 mm.
- 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.



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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	40
1x2x0,75	6,6	19	50
1x2x1	7,0	24	55
1x2x1,3	7,5	30	65
1x2x1,5	7,8	34	70
2x2x0,50	9,2	24	70
2x2x0,75	9,8	34	85
2x2x1	10,5	43	100
2x2x1,3	11,5	55	120
2x2x1,5	12,1	62	135
4x2x0,50	10,9	43	110
4x2x0,75	11,7	62	135
4x2x1	12,5	82	165
4x2x1,3	13,7	105	200
4x2x1,5	14,4	120	225
5x2x0,50	11,4	53	130
5x2x0,75	12,2	77	160
5x2x1	13,1	101	190
5x2x1,3	14,4	130	240
5x2x1,5	15,1	149	265
6x2x0,50	12,2	62	145
6x2x0,75	13,2	91	185
6x2x1	14,3	120	230
6x2x1,3	15,5	155	280
6x2x1,5	16,4	178	315
8x2x0,50	13,9	82	190
8x2x0,75	15,0	120	240
8x2x1	16,3	158	300
8x2x1,3	17,7	204	360
8x2x1,5	18,5	235	400
10x2x0,50	15,2	101	225
10x2x0,75	16,6	149	295
10x2x1	17,9	197	360
10x2x1,3	19,6	254	445
10x2x1,5	20,6	293	495
12x2x0,50	16,6	120	270
12x2x0,75	17,9	178	345
12x2x1	19,5	235	425





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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
12x2x1,3	21,2	304	520
12x2x1,5	22,4	350	590
16x2x0,50	18,7	158	340
16x2x0,75	20,4	235	445
16x2x1	22,2	312	555
16x2x1,3	24,4	404	690
16x2x1,5	25,6	466	770
20x2x0,50	20,7	197	420
20x2x0,75	22,7	293	550
20x2x1	24,6	389	680
20x2x1,3	27,0	504	850
20x2x1,5	28,3	581	950
24x2x0,50	22,6	235	500
24x2x0,75	24,7	350	650
24x2x1	26,6	466	800
24x2x1,3	29,2	604	995
24x2x1,5	30,9	696	1130

