



HALLEY CABLES

RE-2X(St)Y-fl-PIMF

Instrumentation Cables PVC DK-PE 300 V

CU/XLPE/ISCR/OSCR/PVC

XLPE insulated, individual and collective screened, PVC sheathed cable

www.halleycables.com



Construction:

- Conductor : plain copper wire, stranded.
- Insulation : XLPE compound, (RE-2X....).
- Core identification : black / white ; with numbered tape under separator tape of the pair screen. Upon request: black / blue cores numbered 1-1, 2-2,...
- Pair : two conductors twisted to a pair.
- PIMF construction : polyester tape above the pair, AL-PES tape over solid tinned copper drain wire, 0,60 mm. Upon request: stranded 0,50 mm² copper drain wire.
- Lay-up : PIMF laid up in layers of optimum pitch.
- Separator : polyester tape.
- Screen : AL-PES tape over 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 : 300 V.
- Test voltage : Urms core-core : 1500 V;
Urms core-screen : 1500 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.
- Capacitance unbalanced : (1 kHz) : max. 500 pF/500 m.

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 & DIN EN 60332-1.

Technical data and tests:

- 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.
- 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 (1 kHz) : max 120 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... . Instrumentation cables are not allowed for direct connection to a low impedance source, e.g. public mains electricity supply. With blue sheath they are 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
2x2x0,50	9,1	34	80
2x2x0,75	9,9	43	90
2x2x1	10,9	53	110
2x2x1,3	12,1	64	130
2x2x1,5	12,4	72	140
4x2x0,50	10,5	62	120
4x2x0,75	11,6	82	150
4x2x1	12,6	101	175
4x2x1,3	14,2	123	220
4x2x1,5	14,7	139	235
5x2x0,50	11,4	77	145
5x2x0,75	12,4	101	175
5x2x1	13,6	125	215
5x2x1,3	15,2	153	260
5x2x1,5	15,7	173	280
6x2x0,50	12,2	91	165
6x2x0,75	13,6	120	210
6x2x1	14,7	149	250
6x2x1,3	16,6	183	310
6x2x1,5	17,1	206	335
8x2x0,50	13,9	120	215
8x2x0,75	15,2	158	265
8x2x1	16,7	197	325
8x2x1,3	18,7	242	390
8x2x1,5	19,5	274	435
10x2x0,50	15,2	149	260
10x2x0,75	16,9	197	325
10x2x1	18,3	245	390
10x2x1,3	20,7	302	480
10x2x1,5	21,7	341	535
12x2x0,50	16,6	178	305
12x2x0,75	18,2	235	380
12x2x1	20,0	293	465
12x2x1,3	22,6	361	575
12x2x1,5	23,4	408	625
16x2x0,50	18,7	235	390
16x2x0,75	20,8	312	495
16x2x1	22,8	389	600

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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
16x2x1,3	25,8	480	745
16x2x1,5	26,7	542	815
20x2x0,50	20,8	293	480
20x2x0,75	23,0	389	610
20x2x1	25,3	485	740
20x2x1,3	28,6	600	920
20x2x1,5	29,8	677	1020
24x2x0,50	22,6	350	570
24x2x0,75	25,1	466	725
24x2x1	27,6	581	880
24x2x1,3	31,2	719	1090
24x2x1,5	32,5	811	1215

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