



HALLEY CABLES

RE-2X(St)YSWAY-fl MP

CU/XLPE/OSCR/PVC/SWA/PVC

Instrumentation Cables PVC DK-PE 300 V

XLPE insulated, screened, armoured, 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 tinned copper drain wire 0,50 mm².
- Inner sheath : PVC compound, flame retardant.
- Armour : galvanized round steel wire.
- 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 : 10 x D.
- Insulation resistance : min. 5000 MΩ/km.
- Capacitance unbalanced : (1 kHz) : max. 500 pF/500 m.

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) : ≤ 4 pairs all other pairs
0,50 mm² : max. 115 pF/m, max. 90 pF/m;
0,75 mm² : max. 115 pF/m, max. 90 pF/m;
1,0 mm² : max. 115 pF/m, max. 90 pF/m;
1,3 mm² : max. 120 pF/m, max. 105 pF/m;
1,5 mm² : max. 120 pF/m, max. 105 pF/m.

Standards:

- Design : DIN EN 50288-7.
- Conductor : IEC 60228 class 2, DIN EN 60228 class 2.
- Insulation : EN 50290-2-29.
- Armour : EN 10257-1.
- Inner/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 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
1x2x0,50	10,2	14	185
1x2x0,75	10,6	19	200
1x2x1	11,0	24	215
1x2x1,3	11,8	30	245
1x2x1,5	12,0	34	255
2x2x0,50	12,7	24	265
2x2x0,75	13,4	34	295
2x2x1	14,1	43	325
2x2x1,3	15,1	55	365
2x2x1,5	15,6	62	390
4x2x0,50	14,0	43	325
4x2x0,75	14,8	62	370
4x2x1	15,9	82	420
4x2x1,3	17,1	105	480
4x2x1,5	17,5	120	510
5x2x0,50	14,5	53	350
5x2x0,75	15,5	77	405
5x2x1	16,4	101	455
5x2x1,3	17,7	130	530
5x2x1,5	18,2	149	560
6x2x0,50	15,4	62	390
6x2x0,75	16,3	91	445
6x2x1	17,3	120	505
6x2x1,3	18,7	155	585
6x2x1,5	20,1	178	730
8x2x0,50	16,6	82	450
8x2x0,75	17,7	120	520
8x2x1	18,8	158	595
8x2x1,3	21,4	204	810
8x2x1,5	22,0	235	865
10x2x0,50	17,7	101	505
10x2x0,75	19,0	149	595
10x2x1	21,1	197	795
10x2x1,3	23,0	254	925
10x2x1,5	23,8	293	1000
12x2x0,50	18,7	120	560
12x2x0,75	21,0	178	770
12x2x1	22,4	235	880
12x2x1,3	24,6	304	1045





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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
12x2x1,5	25,3	350	1120
16x2x0,50	21,4	158	775
16x2x0,75	23,2	235	920
16x2x1	24,8	312	1060
16x2x1,3	27,3	404	1270
16x2x1,5	28,1	466	1365
20x2x0,50	23,2	197	890
20x2x0,75	25,0	293	1055
20x2x1	26,9	389	1235
20x2x1,3	29,5	504	1470
20x2x1,5	30,6	581	1595
24x2x0,50	24,6	235	990
24x2x0,75	26,7	350	1195
24x2x1	28,7	466	1390
24x2x1,3	32,8	604	1885
24x2x1,5	33,8	696	2020

