



HALLEY CABLES

RE-Y(St)YSWAY-fl-PIMF 70° C

CU/PVC/ISCR/OSCR/PVC/SWA/PVC

Instrumentation Cables PVC DK PVC 500 V

Multi-pair, PVC insulated, screened, armoured, PVC sheathed cable



Construction:

- Conductor : plain copper wire, stranded.
- Insulation : PVC compound, 70° C.
- Core identification : black / blue ; with numbered tape under separator tape of the pair screen. Two conductors twisted to a pair. Upon request: black / blue cores numbered 1-1, 2-2,...
- PIMF construction : polyester tape the pair above, 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 stranded tinned copper drain wire 0,50 mm².
- Inner sheath : PVC compound 70° C.
- Armour : galvanized round steel wire.
- Outer sheath : PVC compound, 70° C.
- Sheath colour : RAL 9005, black or RAL 5015, blue.
- Other core configurations manufactured upon request.

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 ~ + 70° C;
installation : - 5° C ~ + 50° C.
- Min. bending radius : 10 x D.
- Insulation resistance : min. 100 MΩ/km.

Standards:

- Design : DIN EN 50288-7.
- Insulation : EN 50290-2-21.
- Conductor : IEC 60228 class 2, DIN EN 60228 class 2.
- Inner sheath : EN 50290-2-22.
- Armour : EN 10257-1.
- Outer sheath : EN 50290-2-22.
- Flame retardance test : 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. Where endurance at 105° C is needed, RE-Yw(St)YwSWAYw-PIMF cables are suitable. 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.
- Mutual Capacitance : 0,50 mm² : max. 160 pF/m;
0,75 mm² : max. 160 pF/m;
1,0 mm² : max. 160 pF/m;
1,3 mm² : max. 170 pF/m;
1,5 mm² : max. 170 pF/m.
- 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
2x2x0,50	10,3	14,9	34	340
2x2x0,75	11,1	15,9	43	380
2x2x1	11,9	16,7	53	415
2x2x1,3	12,8	17,6	64	455
2x2x1,5	13,4	18,2	72	480
4x2x0,50	11,9	16,7	62	435
4x2x0,75	12,9	17,7	82	485
4x2x1	13,8	18,6	101	535
4x2x1,3	15,0	20,7	123	705
4x2x1,5	15,7	20,7	139	645
5x2x0,50	12,7	17,5	77	480
5x2x0,75	13,8	18,6	101	535
5x2x1	14,8	20,5	125	705
5x2x1,3	16,1	21,8	153	785
5x2x1,5	16,9	21,9	173	725
6x2x0,50	13,7	18,5	91	530
6x2x0,75	14,8	20,5	120	700
6x2x1	16,0	21,7	149	775
6x2x1,3	17,4	23,3	183	880
6x2x1,5	18,2	24,1	206	940
8x2x0,50	15,5	21,2	120	735
8x2x0,75	16,8	22,5	158	825
8x2x1	18,1	24,0	197	925
8x2x1,3	19,7	25,6	242	1040
8x2x1,5	20,7	26,8	274	1130
10x2x0,50	17,0	22,9	149	840
10x2x0,75	18,5	24,4	197	945
10x2x1	19,9	25,8	245	1055
10x2x1,3	21,8	27,9	302	1205
10x2x1,5	22,9	29,0	341	1295
12x2x0,50	18,4	24,3	178	930
12x2x0,75	20,0	25,9	235	1055
12x2x1	21,6	27,7	293	1195
12x2x1,3	24,0	30,1	361	1385
12x2x1,5	25,2	31,5	408	1500
16x2x0,50	20,9	27,0	235	1115
16x2x0,75	22,7	28,8	312	1270





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16x2x1	25,0	32,0	389	1645
16x2x1,3	27,3	34,5	480	1880
16x2x1,5	28,7	35,9	542	2015
20x2x0,50	23,5	29,6	293	1310
20x2x0,75	25,5	32,5	389	1680
20x2x1	27,6	34,8	485	1905
20x2x1,3	30,2	37,4	600	2165
20x2x1,5	31,7	39,1	677	2345
24x2x0,50	25,4	32,4	350	1650
24x2x0,75	27,7	34,9	466	1900
24x2x1	30,0	37,2	581	2140
24x2x1,3	33,2	40,6	719	2505
24x2x1,5	34,9	43,3	811	2975

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