



HALLEY CABLES

RE-Yw(St)YwSWAYw-fl MP

CU/PVC/OSCR/PVC/SWA/PVC

Instrumentation Cables PVC DK PVC 300 V

PVC insulated, screened, armoured, PVC sheathed cable

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Construction:

- Conductor : plain copper wire, stranded.
- Insulation : PVC compound, 105° C.
- Core identification : black / white cores numbered 1-1, 2-2,... Upon request: colour coded according to IEC 60189-2. Other core configurations manufactured upon request.
- 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.
- Inner sheath : PVC compound, 105° C.
- Armour : galvanized round steel wire.
- Outer sheath : PVC compound, 105° 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 ~ + 105° C;
installation : - 5° C ~ + 50° C.
- Min. bending radius : 10 x D.
- Insulation resistance : min. 100 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 50290-2-21.
- Inner/outer sheath : EN 50290-2-22.
- Armour : EN 10257-1.
- 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 to be directly connected to a low impedance source, e.g. public mains electricity supply. The armour above the sheath protects the cable from mechanical shocks. 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:

- 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. 190 pF/m; max 150 pF/m;
0,75 mm² : max. 190 pF/m; max 150 pF/m;
1,0 mm² : max. 190 pF/m; max 150 pF/m;
1,3 mm² : max. 200 pF/m; max 150 pF/m;
1,5 mm² : max. 200 pF/m. max 150 pF/m.

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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
1x2x0,50	5,8	10,2	14	185
1x2x0,75	6,2	10,6	19	195
1x2x1	6,6	11,0	24	210
1x2x1,3	7,2	11,8	30	240
1x2x1,5	7,4	12,0	34	250
2x2x0,50	8,1	12,7	24	265
2x2x0,75	8,8	13,4	34	290
2x2x1	9,5	14,1	43	320
2x2x1,3	10,5	15,1	55	355
2x2x1,5	10,8	15,6	62	380
4x2x0,50	9,4	14,0	43	325
4x2x0,75	10,2	14,8	62	365
4x2x1	11,1	15,9	82	415
4x2x1,3	12,3	17,1	105	480
4x2x1,5	12,7	17,5	120	500
5x2x0,50	9,9	14,5	53	350
5x2x0,75	10,7	15,5	77	405
5x2x1	11,6	16,4	101	445
5x2x1,3	12,9	17,7	130	530
5x2x1,5	13,4	18,2	149	555
6x2x0,50	10,6	15,4	62	385
6x2x0,75	11,5	16,3	91	440
6x2x1	12,5	17,3	120	500
6x2x1,3	13,9	18,7	155	585
6x2x1,5	14,4	20,1	178	725
8x2x0,50	11,8	16,6	82	445
8x2x0,75	12,9	17,7	120	520
8x2x1	14,0	18,8	158	595
8x2x1,3	15,7	21,4	204	815
8x2x1,5	16,3	22,0	235	860
10x2x0,50	12,9	17,7	101	500
10x2x0,75	14,2	19,0	149	585
10x2x1	15,4	21,1	197	790
10x2x1,3	17,3	23,0	254	925
10x2x1,5	17,9	23,8	293	990
12x2x0,50	13,9	18,7	120	560
12x2x0,75	15,3	21,0	178	770





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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
12x2x1	16,7	22,4	235	875
12x2x1,3	18,7	24,6	304	1050
12x2x1,5	19,4	25,3	350	1110
16x2x0,50	15,7	21,4	158	780
16x2x0,75	17,3	23,2	235	920
16x2x1	18,9	24,8	312	1065
16x2x1,3	21,2	27,3	404	1270
16x2x1,5	22,0	28,1	466	1360
20x2x0,50	17,3	23,2	197	890
20x2x0,75	19,1	25,0	293	1060
20x2x1	20,8	26,9	389	1240
20x2x1,3	23,4	29,5	504	1470
20x2x1,5	24,3	30,6	581	1600
24x2x0,50	18,7	24,6	235	990
24x2x0,75	20,6	26,7	350	1200
24x2x1	22,6	28,7	466	1410
24x2x1,3	25,8	32,8	604	1885
24x2x1,5	26,8	33,8	696	2030

