



HALLEY CABLES

RE-Y(St)YSWAY-fI

CU/PVC/OSCR/PVC/SWA/PVC

Instrumentation Cables PVC DK PVC 300 V

PVC insulated, screened, armoured, PVC sheathed cable

www.halleycables.com

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Construction:

- Conductor : plain copper wire, stranded.
- Insulation : PVC compound, 70° C.
- Core identification : black / white / red cores are numbered (1-1-1, 2-2-2,...). 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, 70° C.
- Armour : galvanized round steel wire.
- Outer sheath : PVC compound, 70° 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 ~ + 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.
- 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.

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) : 0,50 mm² : max. 190 pF/m;
0,75 mm² : max. 190 pF/m;
1,0 mm² : max. 190 pF/m;
1,3 mm² : max. 200 pF/m;
1,5 mm² : max. 200 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 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.



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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
1x3x0,50	6,0	10,4	19	205
2x3x0,50	9,0	13,6	34	310
4x3x0,50	10,3	14,9	62	390
5x3x0,50	11,0	15,8	77	435
6x3x0,50	11,8	16,6	91	475
8x3x0,50	13,3	18,1	120	560
10x3x0,50	14,5	19,5	149	645
12x3x0,50	15,7	21,4	178	825
16x3x0,50	17,8	23,7	235	995
20x3x0,50	19,6	25,5	293	1140
24x3x0,50	21,2	27,3	350	1295
1x3x0,75	6,4	10,8	26	220
2x3x0,75	9,8	14,4	48	345
4x3x0,75	11,2	16,0	91	450
5x3x0,75	12,0	16,8	113	500
6x3x0,75	12,9	17,7	134	555
8x3x0,75	14,5	19,5	177	670
10x3x0,75	16,0	21,7	221	875
12x3x0,75	17,3	23,2	264	990
16x3x0,75	19,6	25,5	350	1185
20x3x0,75	21,6	27,7	437	1390
24x3x0,75	23,8	29,9	523	1605
1x3x1	6,9	11,3	34	240
2x3x1	10,5	15,1	62	380
4x3x1	12,1	16,9	120	510
5x3x1	13,0	17,8	149	570
6x3x1	14,0	18,8	178	640
8x3x1	15,8	21,5	235	880
10x3x1	17,4	23,3	293	1020
12x3x1	18,8	24,7	350	1145
16x3x1	21,4	27,5	466	1395
20x3x1	24,0	30,1	581	1660
24x3x1	26,1	33,1	696	2075
1x3x1,3	7,5	12,1	42	275
2x3x1,3	11,7	16,5	80	445
4x3x1,3	13,5	18,3	155	595
5x3x1,3	14,5	20,2	192	775
6x3x1,3	15,7	21,4	230	865

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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
8x3x1,3	17,7	23,6	304	1045
10x3x1,3	19,6	25,5	379	1210
12x3x1,3	21,2	27,3	454	1375
16x3x1,3	24,5	31,5	604	1885
20x3x1,3	27,1	34,3	754	2210
24x3x1,3	29,4	36,6	903	2505
1x3x1,5	7,7	12,3	48	285
2x3x1,5	12,1	16,9	91	470
4x3x1,5	14,0	18,8	177	630
5x3x1,5	15,0	20,7	220	825
6x3x1,5	16,2	21,9	264	925
8x3x1,5	18,4	24,3	350	1120
10x3x1,5	20,3	26,2	436	1295
12x3x1,5	22,0	28,1	523	1480
16x3x1,5	25,4	32,4	696	2025
20x3x1,5	28,1	35,3	868	2375
24x3x1,5	30,5	37,7	1041	2705

