



HALLEY CABLES

RE-Yw(St)YwSWAYw-fl PIMF

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 with numbered tape under separator tape of the pair screen. Upon request: black / white cores numbered 1-1, 2-2,... Other core configurations manufactured upon request.
- 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 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. Where endurance at 105° C is needed, this cable is 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:

- 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.

www.halleycables.com

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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	13,7	34	300
4x2x0,50	15,1	62	380
5x2x0,50	16,0	77	415
6x2x0,50	16,8	91	455
8x2x0,50	18,3	120	535
10x2x0,50	19,8	149	620
12x2x0,50	21,7	178	800
16x2x0,50	24,0	235	950
20x2x0,50	25,9	293	1095
24x2x0,50	27,7	350	1240
2x2x0,75	14,5	43	335
4x2x0,75	16,2	82	430
5x2x0,75	17,0	101	475
6x2x0,75	18,0	120	520
8x2x0,75	20,5	158	725
10x2x0,75	22,0	197	815
12x2x0,75	23,5	235	920
16x2x0,75	25,9	312	1100
20x2x0,75	28,1	389	1275
24x2x0,75	30,6	466	1490
2x2x1	15,3	53	360
4x2x1	17,2	101	480
5x2x1	18,0	125	525
6x2x1	20,0	149	680
8x2x1	21,8	197	810
10x2x1	23,6	245	935
12x2x1	25,1	293	1050
16x2x1	27,9	389	1265
20x2x1	31,5	485	1675
24x2x1	33,6	581	1865
2x2x1,3	16,7	64	415
4x2x1,3	18,6	123	545
5x2x1,3	20,5	153	715
6x2x1,3	21,7	183	790
8x2x1,3	24,0	242	940
10x2x1,3	25,8	302	1080
12x2x1,3	27,7	361	1225





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No. of cores x cross section mm ²	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
16x2x1,3	31,6	480	1655
20x2x1,3	34,8	600	1965
24x2x1,3	37,2	719	2225
2x2x1,5	17,0	72	435
4x2x1,5	19,1	139	580
5x2x1,5	20,3	173	650
6x2x1,5	22,2	206	835
8x2x1,5	24,6	274	995
10x2x1,5	26,8	341	1160
12x2x1,5	28,5	408	1295
16x2x1,5	32,9	542	1785
20x2x1,5	35,8	677	2075
24x2x1,5	38,5	811	2365

