



HALLEY CABLES

RE-Yw(St)Yw-fl CU/PVC/OSCR/PVC

Instrumentation Cables PVC DK PVC 300 V

PVC insulated, individual & collective screened, PVC sheathed cable



Construction:

- Conductor : plain copper wire, stranded.
- Insulation : PVC compound, 105° C.
- Core identification : black / blue / 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.
- Triple : three conductors twisted to a triple.
- Lay-up : triples laid up in layers of optimum pitch.
- Separator : polyester tape.
- Screen : AL-PES tape over stranded tinned copper drain wire 0,50 mm².
- 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 : 7.5 x D.
- Insulation resistance : min. 100 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 : max. 190 pF/m;
all other pairs : max. 150 pF/m;
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.

Standards:

- Design : DIN EN 50288-7.
- Conductor : IEC 60228 class 2, DIN EN 60228 class 2.
- Insulation : EN 50290-2-21.
- 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 to be directly connected to a low impedance source, e.g. public mains electricity supply. 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. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
1x3x0,50	5,8	19	45
1x3x0,75	6,2	26	55
1x3x1	6,7	34	65
1x3x1,3	7,3	42	85
1x3x1,5	7,5	48	90
2x3x0,50	9,0	34	80
2x3x0,75	9,8	48	105
2x3x1	10,5	62	125
2x3x1,3	11,9	80	170
2x3x1,5	12,3	91	185
4x3x0,50	10,3	62	130
4x3x0,75	11,4	91	170
4x3x1	12,3	120	210
4x3x1,3	13,9	155	265
4x3x1,5	14,4	177	295
5x3x0,50	11,2	77	155
5x3x0,75	12,2	113	200
5x3x1	13,2	149	250
5x3x1,3	14,9	192	325
5x3x1,5	15,4	220	355
6x3x0,50	12,0	91	185
6x3x0,75	13,1	134	235
6x3x1	14,4	178	300
6x3x1,3	16,3	230	380
6x3x1,5	16,8	264	420
8x3x0,50	13,7	120	235
8x3x0,75	14,9	177	305
8x3x1	16,4	235	385
8x3x1,3	18,3	304	485
8x3x1,5	19,2	350	550
10x3x0,50	14,9	149	285
10x3x0,75	16,6	221	375
10x3x1	18,0	293	470
10x3x1,3	20,4	379	600
10x3x1,5	21,1	436	670
12x3x0,50	16,3	178	335
12x3x0,75	17,9	264	440

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12x3x1	19,6	350	560
12x3x1,3	22,2	454	715
12x3x1,5	23,0	523	800
16x3x0,50	18,4	235	430
16x3x0,75	20,4	350	585
16x3x1	22,4	466	735
16x3x1,3	25,3	604	945
16x3x1,5	26,2	696	1050
20x3x0,50	20,4	293	535
20x3x0,75	22,6	437	720
20x3x1	24,8	581	905
20x3x1,3	28,1	754	1165
20x3x1,5	29,1	868	1305
24x3x0,50	22,2	350	640
24x3x0,75	24,6	523	860
24x3x1	27,1	696	1080
24x3x1,3	30,6	903	1395
24x3x1,5	31,7	1041	1565

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