



HALLEY CABLES

RE-Y(St)Y-fl 70° C

CU/PVC/OSCR/PVC

Instrumentation & Control Cables PVC 500 V

Multicore, PVC insulated, collective screened, PVC sheathed cable



Construction:

- Conductor : plain copper wire, stranded.
- Insulation : PVC compound, 70° C.
- Core identification : black cores numbered 1-2-3...
- Lay-up : cores 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, 70° C.
- Sheath colour : RAL 9005, black or RAL 5015, blue.
- Note : 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 : 7.5 x D.
- Insulation resistance : min. 100 MΩ/km.

Standards:

- Design : 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 test : IEC 60332-1 & EN 60332-1.
IEC 60332-3 & DIN EN 50266-2-4.

Applications:

These cables are used for control purposes (e.g. controlling of pumps, valves or engines) 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. For applications which need heat resistance up to 105° C, RE-Yw(St)Yw cables are suitable. With blue sheath they are 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 : 36,0 Ω/km;
0,75 mm² : 24,5 Ω/km;
1,0 mm² : 18,1 Ω/km;
1,3 mm² : 13,9 Ω/km;
1,5 mm² : 12,1 Ω/km;
2,5 mm² : 7,4 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;
2,5 mm² : 60 μH/Ω.
- Mutual capacitance (1 kHz) : max 190 pF/m.

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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
2x0,50	6,2	14	45
2x0,75	6,6	19	55
2x1	7,0	24	60
2x1,3	7,5	30	70
2x1,5	8,0	34	80
2x2,5	9,2	34	90
3x0,50	6,5	19	55
3x0,75	7,0	26	65
3x1	7,4	34	80
3x1,3	8,1	42	95
3x1,5	8,4	48	105
3x2,5	9,7	48	129
4x0,50	7,0	24	65
4x0,75	7,5	34	80
4x1	8,2	43	100
4x1,3	8,8	55	120
4x1,5	9,2	62	130
4x2,5	10,8	62	150
5x0,50	7,6	29	80
5x0,75	8,3	41	100
5x1	8,9	53	115
5x1,3	9,6	67	140
5x1,5	10,0	77	155
5x2,5	11,8	77	180
6x0,50	8,4	34	95
6x0,75	9,0	48	115
6x1	9,6	62	135
6x1,3	10,4	80	160
6x1,5	11,0	91	185
6x2,5	12,8	91	210
8x0,50	9,3	43	115
8x0,75	10,0	62	140
8x1	10,9	82	175
8x1,3	11,7	105	210
8x1,5	12,3	120	235
8x2,5	14,5	120	270
10x0,50	10,6	53	140
10x0,75	11,4	77	175
10x1	12,2	101	210
10x1,3	13,4	130	260
10x1,5	14,0	149	290
10x2,5	16,6	149	340

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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
12x0,50	10,9	62	160
12x0,75	11,8	91	200
12x1	12,6	120	240
12x1,3	13,8	155	300
12x1,5	14,4	178	335
12x2,5	17,1	178	390
14x0,50	11,4	72	180
14x0,75	12,3	106	230
14x1	13,2	139	275
14x1,3	14,5	180	340
14x1,5	15,1	206	380
14x2,5	18,0	206	440
16x0,50	12,0	82	200
16x0,75	12,9	120	255
16x1	14,1	158	315
16x1,3	15,3	204	385
16x1,5	16,2	235	435
16x2,5	19,2	235	505
20x0,50	13,5	101	250
20x0,75	14,5	149	315
20x1	15,6	197	380
20x1,3	17,1	254	475
20x1,5	17,9	293	530
20x2,5	21,5	293	625
24x0,50	14,8	120	290
24x0,75	16,2	178	380
24x1	17,4	235	460
24x1,3	19,1	304	570
24x1,5	20,0	350	635
24x2,5	23,8	350	735
27x0,50	15,1	134	320
27x0,75	16,5	199	415
27x1	17,8	264	505
27x1,3	19,5	342	630
27x1,5	20,4	394	700
27x2,5	24,5	394	820
30x0,50	15,6	149	350
30x0,75	17,1	221	455
30x1	18,4	293	555
30x1,3	20,2	379	690
30x1,5	21,1	437	770
30x2,5	25,4	437	900

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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
37x0,50	17,0	182	425
37x0,75	18,4	271	545
37x1	20,0	360	675
37x1,3	22,0	467	840
37x1,5	23,0	538	940
37x2,5	27,6	538	1095
40x0,75	19,3	293	590
40x0,50	17,7	197	455
40x1	20,8	389	725
40x1,3	22,8	504	900
40x1,5	24,1	581	1020
40x2,5	28,7	581	1175

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