



HALLEY CABLES

RE-Y(St)Y-fl 70° C

CU/PVC/OSCR/PVC

Instrumentation Cables PVC DK PVC 500 V

PVC insulated, collective screened, PVC sheathed cable



Construction:

Conductor	: plain copper wire, stranded.
Insulation	: PVC compound, 70° C.
Core identification	: black / blue / red cores 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 mm ² .
Outer sheath	: PVC compound, 70° C.
Sheath colour	: RAL 9005, black or RAL 5015, blue.

Technical data and tests:

Rated voltage	: 500 V.
Test Voltage	: Urms core-core : 2000 V; Urms core-screen: 2000 V.
Temperature range (Y)	: operation : - 30° C ~ + 70° C; installation : - 5° C ~ + 50° C.
Min. bending radius	: 7,5 x D.
Capacitance unbalance	: (1 kHz) : max. 500 pF/500 m.
Insulation resistance (20° C)	: min. 100 MΩ/km.

Standards:

Design	: DIN EN 50288-7.
Insulation	: EN 50290-2-21.
Conductor	: IEC 60228 class 2, DIN EN 60228 class 2.
Flame retardance test	: IEC 60332-1 & EN 60332-1.
Outer sheath	: EN 50290-2-22.

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 for direct connection to a low impedance source, e.g. public mains electricity supply. Where endurance at 105° C is needed, RE-Yw(St)Yw cables are 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:

Conductor resistance (20° C)	: 0,50 mm ² : 36,7 Ω/km; 0,75 mm ² : 25,0 Ω/km; 1,0 mm ² : 18,5 Ω/km; 1,3 mm ² : 14,2 Ω/km; 1,5 mm ² : 12,3 Ω/km.
Mutual Capacitance (1kHz)	: <u>≤ 4 pairs</u> <u>all other pairs</u> 0,50 mm ² : max. 160 pF/m max. 120 pF/m; 0,75 mm ² : max. 160 pF/m max. 120 pF/m; 1,0 mm ² : max. 160 pF/m max. 120 pF/m; 1,3 mm ² : max. 170 pF/m max. 130 pF/m; 1,5 mm ² : max. 170 pF/m max. 130 pF/m.
L / R (ratio) (max.)	: 0,50 mm ² : 25 μH/Ω; 0,75 mm ² : 25 μH/Ω; 1,0 mm ² : 25 μH/Ω; 1,30 mm ² : 40 μH/Ω; 1,5 mm ² : 40 μH/Ω.

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
1x3x0,50	6,5	19	55
1x3x0,75	6,9	26	65
1x3x1	7,3	34	75
1x3x1,3	8,0	42	90
1x3x1,5	8,4	48	100
2x3x0,50	10,2	34	95
2x3x0,75	11,1	48	120
2x3x1	11,9	62	145
2x3x1,3	12,9	80	170
2x3x1,5	13,7	91	195
4x3x0,50	11,9	62	160
4x3x0,75	12,8	91	200
4x3x1	13,9	120	245
4x3x1,3	15,1	155	295
4x3x1,5	15,8	177	330
5x3x0,50	12,7	77	190
5x3x0,75	13,9	113	240
5x3x1	14,9	149	290
5x3x1,3	16,4	192	360
5x3x1,5	17,1	220	400
6x3x0,50	13,9	91	225
6x3x0,75	15,0	134	280
6x3x1	16,3	178	350
6x3x1,3	17,7	230	425
6x3x1,5	18,5	264	470
8x3x0,50	15,6	120	285
8x3x0,75	17,1	177	365
8x3x1	18,3	235	445
8x3x1,3	20,1	304	550
8x3x1,5	21,1	350	615
10x3x0,50	17,3	149	350
10x3x0,75	18,7	221	445
10x3x1	20,4	293	550
10x3x1,3	22,3	379	680
10x3x1,5	23,4	436	760
12x3x0,50	18,7	178	405

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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
12x3x0,75	20,4	264	530
12x3x1	22,2	350	655
12x3x1,3	24,3	454	810
12x3x1,5	25,5	523	910
16x3x0,50	21,3	235	530
16x3x0,75	23,3	350	690
16x3x1	25,3	466	855
16x3x1,3	27,8	604	1060
16x3x1,5	29,1	696	1190
20x3x0,50	23,6	293	655
20x3x0,75	25,8	437	850
20x3x1	28,1	581	1055
20x3x1,3	30,8	754	1315
20x3x1,5	32,5	868	1485
24x3x0,50	25,7	350	780
24x3x0,75	28,2	523	1015
24x3x1	30,6	696	1255
24x3x1,3	33,5	903	1565
24x3x1,5	35,4	1041	1765

