RE-Y(St)Y-fl MP 70° C

CU/PVC/OSCR/PVC

Instrumentation Cables PVC DK PVC 500 V

PVC insulated, collective screened, PVC sheathed cable

HALLEY CABLES

Construction:

Conductor	: plain copper wire, stranded.
Insulation	: PVC compound, 70° C.
Core identification	: black / blue cores numbered 1-1, 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.
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	: 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.

Technical data and tests:

Conductor resistance (20° C)	: 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.	
Mutual Capacitance (1kHz)	: ≤ 4 pairs	all other pairs
	0,50 mm² : max. 160 pF/m	max. 120 pF/m;
	0,75 mm² : max. 160 pF/m	max. 120 pF/m;
	1,0 mm² : max. 160 pF/m	max. 120 pF/m;
	1,3 mm² : max. 170 pF/m	max. 130 pF/m;
	1,5 mm² : max. 170 pF/m	max. 130 pF/m.
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.	

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.

IEC CE DVE RoHS PG TSE

www.halleycables.com

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DIMENSIONS

No. of cores x cross section mm²	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
1x2x0,50	6,2	14	45
1x2x0,75	6,6	19	50
1x2x1	7,0	24	60
1x2x1,3	7,5	30	70
1x2x1,5	7,8	34	75
2x2x0,50	9,2	24	75
2x2x0,75	9,8	34	90
2x2x1	10,5	43	105
2x2x1,3	11,5	55	130
2x2x1,5	12,1	62	140
4x2x0,50	10,9	43	120
4x2x0,75	11,7	62	145
4x2x1	12,5	82	175
4x2x1,3	13,7	105	215
4x2x1,5	14,4	120	240
5x2x0,50	11,4	53	140
5x2x0,75	12,2	77	175
5x2x1	13,1	101	205
5x2x1,3	14,4	130	255
5x2x1,5	15,1	149	285
6x2x0,50	12,2	62	160
6x2x0,75	13,2	91	200
6x2x1	14,3	120	245
6x2x1,3	15,5	155	295
6x2x1,5	16,4	178	335
8x2x0,50	13,9	82	205
8x2x0,75	15,0	120	260
8x2x1	16,3	158	320
8x2x1,3	17,7	204	390
8x2x1,5	18,5	235	430
10x2x0,50	15,2	101	250
10x2x0,75	16,6	149	320
10x2x1	17,9	197	385
10x2x1,3	19,6	254	480
10x2x1,5	20,6	293	530
12x2x0,50	16,6	120	295
12x2x0,75	17,9	178	375

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DIMENSIONS

No. of cores x cross section mm²	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
12x2x1	19,5	235	460
12x2x1,3	21,2	304	560
12x2x1,5	22,4	350	635
16x2x0,50	18,7	158	375
16x2x0,75	20,4	235	485
16x2x1	22,2	312	600
16x2x1,3	24,4	404	740
16x2x1,5	25,6	466	825
20x2x0,50	20,7	197	460
20x2x0,75	22,7	293	595
20x2x1	24,6	389	740
20x2x1,3	27,0	504	915
20x2x1,5	28,3	581	1020
24x2x0,50	22,6	235	550
24x2x0,75	24,7	350	710
24x2x1	26,6	466	865
24x2x1,3	29,2	604	1075
24x2x1,5	30,9	696	1095

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