RE-Yw(St)Yw-fl MP 105° 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, 105° 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, 105° 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 ~ + 105° 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. 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

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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	40
1x2x0,75	6,6	19	45
1x2x1	7,0	24	55
1x2x1,3	7,5	30	65
1x2x1,5	7,8	34	70
2x2x0,50	9,2	24	70
2x2x0,75	9,8	34	85
2x2x1	10,5	43	95
2x2x1,3	11,5	55	120
2x2x1,5	12,1	62	130
4x2x0,50	10,9	43	110
4x2x0,75	11,7	62	140
4x2x1	12,5	82	165
4x2x1,3	13,7	105	205
4x2x1,5	14,4	120	225
5x2x0,50	11,4	53	130
5x2x0,75	12,2	77	160
5x2x1	13,1	101	195
5x2x1,3	14,4	130	245
5x2x1,5	15,1	149	270
6x2x0,50	12,2	62	150
6x2x0,75	13,2	91	190
6x2x1	14,3	120	235
6x2x1,3	15,5	155	285
6x2x1,5	16,4	178	325
8x2x0,50	13,9	82	195
8x2x0,75	15,0	120	245
8x2x1	16,3	158	305
8x2x1,3	17,7	204	370
8x2x1,5	18,5	235	415
10x2x0,50	15,2	101	235
10x2x0,75	16,6	149	305
10x2x1	17,9	197	370
10x2x1,3	19,6	254	460
10x2x1,5	20,6	293	510
12x2x0,50	16,6	120	280
12x2x0,75	17,9	178	355

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No. of cores x cross section mm²	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
12x2x1	19,5	235	440
12x2x1,3	21,2	304	540
12x2x1,5	22,4	350	610
16x2x0,50	18,7	158	355
16x2x0,75	20,4	235	465
16x2x1	22,2	312	575
16x2x1,3	24,4	404	715
16x2x1,5	25,6	466	800
20x2x0,50	20,7	197	440
20x2x0,75	22,7	293	575
20x2x1	24,6	389	710
20x2x1,3	27,0	504	885
20x2x1,5	28,3	581	990
24x2x0,50	22,6	235	525
24x2x0,75	24,7	350	685
24x2x1	26,6	466	835
24x2x1,3	29,2	604	1040
24x2x1,5	30,9	696	1180

IEC CE RoHS