



HALLEY CABLES

RE-Yw(St)Yw-fl PIMF

CU/PVC/ISCR/OSCR/PVC

Instrumentation Cables PVC DK PVC 300 V

PVC insulated, individual & collective screened, PVC sheathed cable

RE-Yw(St)Yw-fl-PIMF



Construction:

- Conductor : plain copper wire, stranded.
- Insulation : PVC compound, 105° C.
- Core identification : black / white, with numbered tape under separator tape of the pair screen. Upon request: black / blue cores numbered 1-1, 2-2,... Other core configurations manufactured upon request.
- Pair : two conductors twisted to a pair.
- PIMF construction : polyester tape above the pair, AL-PES tape over solid tinned copper drain wire, 0,60 mm. Upon request: stranded 0,50 mm² copper drain wire.
- Lay-up : PIMF 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.

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.

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;
1,50 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) : 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.

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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
2x2x0,50	9,1	34	80
2x2x0,75	9,9	43	95
2x2x1	10,9	53	115
2x2x1,3	12,1	64	135
2x2x1,5	12,4	72	150
4x2x0,50	10,5	62	120
4x2x0,75	11,6	82	150
4x2x1	12,6	101	180
4x2x1,3	14,2	123	215
4x2x1,5	14,7	139	240
5x2x0,50	11,4	77	145
5x2x0,75	12,4	101	180
5x2x1	13,6	125	215
5x2x1,3	15,2	153	285
5x2x1,5	15,7	173	285
6x2x0,50	12,2	91	170
6x2x0,75	13,6	120	210
6x2x1	14,7	149	255
6x2x1,3	16,6	183	310
6x2x1,5	17,1	206	350
8x2x0,50	13,9	120	215
8x2x0,75	15,2	158	270
8x2x1	16,7	197	320
8x2x1,3	18,7	242	390
8x2x1,5	19,5	274	440
10x2x0,50	15,2	149	260
10x2x0,75	16,9	197	330
10x2x1	18,3	245	400
10x2x1,3	20,7	302	490
10x2x1,5	21,7	341	550
12x2x0,50	16,6	178	315
12x2x0,75	18,2	235	385
12x2x1	20,0	293	465
12x2x1,3	22,6	361	585
12x2x1,5	23,4	408	640
16x2x0,50	18,7	235	395





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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
16x2x0,75	20,8	312	500
16x2x1	22,8	389	610
16x2x1,3	25,8	480	755
16x2x1,5	26,7	542	840
20x2x0,50	20,8	293	490
20x2x0,75	23,0	389	620
20x2x1	25,3	485	760
20x2x1,3	28,6	600	935
20x2x1,5	29,8	677	1045
24x2x0,50	22,6	350	580
24x2x0,75	25,1	466	735
24x2x1	27,6	581	900
24x2x1,3	31,2	719	1110
24x2x1,5	32,5	811	1235

