



HALLEY CABLES

RE-Yw(St)YwSWAYw-fl-PIMF 105° C

CU/PVC/ISCR/OSCR/PVC/SWA/PVC

Instrumentation Cables PVC DK PVC 500 V

Multi-pair, PVC insulated, screened, armoured, PVC sheathed cable

RE-Yw(St)YwSWAYw-fl-PIMF



Construction:

- Conductor : plain copper wire, stranded.
- Insulation : PVC compound, 105° C.
- Core identification : black / blue ; with numbered tape under separator tape of the pair screen. Two conductors twisted to a pair. Upon request: black / blue cores numbered 1-1, 2-2,...
- PIMF construction : polyester tape the pair above, 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.
- Inner sheath : PVC compound 105° C.
- Armour : galvanized round steel wire.
- Outer sheath : PVC compound, 105° C.
- Sheath colour : RAL 9005, black or RAL 5015, blue.
- 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 : 10 x D.
- Insulation resistance : 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.
- Inner sheath : EN 50290-2-22.
- Armour : EN 10257-1.
- Outer sheath : EN 50290-2-22.
- Flame retardance test : 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 for direct connection to a low impedance source, e.g. public mains electricity supply. Where endurance at 105° C is needed, RE-Yw(St)YwSWAYw-PIMF 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 : 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 : 0,50 mm² : max. 160 pF/m;
0,75 mm² : max. 160 pF/m;
1,0 mm² : max. 160 pF/m;
1,3 mm² : max. 170 pF/m;
1,5 mm² : max. 170 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;





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DIMENSIONS

No. of cores x cross section mm ²	Approx. bedding diameter mm	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
2x2x0,50	10,3	14,9	34	325
2x2x0,75	11,1	15,9	43	360
2x2x1	11,9	16,7	53	390
2x2x1,3	12,8	17,6	64	435
2x2x1,5	13,4	18,2	72	460
4x2x0,50	11,9	16,7	62	415
4x2x0,75	12,9	17,7	82	460
4x2x1	13,8	18,6	101	510
4x2x1,3	15,0	20,7	123	675
4x2x1,5	15,7	20,7	139	615
5x2x0,50	12,7	17,5	77	455
5x2x0,75	13,8	18,6	101	510
5x2x1	14,8	20,5	125	675
5x2x1,3	16,1	21,8	153	755
5x2x1,5	16,9	21,9	173	690
6x2x0,50	13,7	18,5	91	500
6x2x0,75	14,8	20,5	120	675
6x2x1	16,0	21,7	149	745
6x2x1,3	17,4	23,3	183	845
6x2x1,5	18,2	24,1	206	900
8x2x0,50	15,5	21,2	120	700
8x2x0,75	16,8	22,5	158	790
8x2x1	18,1	24,0	197	890
8x2x1,3	19,7	25,6	242	1000
8x2x1,5	20,7	26,8	274	1085
10x2x0,50	17,0	22,9	149	805
10x2x0,75	18,5	24,4	197	910
10x2x1	19,9	25,8	245	1015
10x2x1,3	21,8	27,9	302	1160
10x2x1,5	22,9	29,0	341	1245
12x2x0,50	18,4	24,3	178	895
12x2x0,75	20,0	25,9	235	1015
12x2x1	21,6	27,7	293	1150
12x2x1,3	24,0	30,1	361	1335
12x2x1,5	25,2	31,5	408	1445
16x2x0,50	20,9	27,0	235	1070
16x2x0,75	22,7	28,8	312	1225

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No. of cores x cross section mm ²	Approx. bedding diameter mm	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
16x2x1	25,0	32,0	389	1585
16x2x1,3	27,3	34,5	480	1815
16x2x1,5	28,7	35,9	542	1950
20x2x0,50	23,5	29,6	293	1260
20x2x0,75	25,5	32,5	389	1620
20x2x1	27,6	34,8	485	1840
20x2x1,3	30,2	37,4	600	2095
20x2x1,5	31,7	39,1	677	2270
24x2x0,50	25,4	32,4	350	1590
24x2x0,75	27,7	34,9	466	1835
24x2x1	30,0	37,2	581	2070
24x2x1,3	33,2	40,6	719	2420
24x2x1,5	34,9	43,3	811	2885

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