



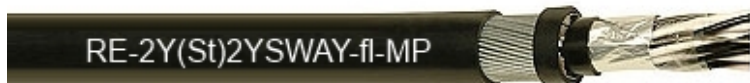
HALLEY CABLES

RE-2Y(St)2YSWAY-fl-MP 70° C

CU/PE/OSCR/PE/SWA/PVC

Instrumentation Cables British Standard 300/500 V

PE insulated, collective screened, armoured, PVC sheathed cable



Construction:

- Conductor : plain annealed copper wire, BS 6360, 0,50 mm² and 1,0 mm² solid, 0,50 mm² flexible or 1,5 mm² stranded.
- Insulation : PE compound.
- Pair : two conductors twisted to a pair.
- Separator : polyester tape.
- Screen : AL-PES tape over tinned copper drain wire 0,50 mm².
- Bedding : PE compound, black.
- Armour : galvanized round steel wire.
- Outer sheath : PVC compound, flame retardant.
- Sheath colour : RAL 9005, black.

Technical data and tests:

- Rated voltage (U°/U) : 300/500V.
- Test voltage : Urms core-core : 1000 V;
Urms core-screen : 1000 V.
- Insulation resistance : min. 5000 MΩ/km.
- Capacitance unbalanced : (1 kHz) : max. 250 pF/250 m.
- Temperature range : operation : - 40° C ~ + 70° C;
installation : - 5° C ~ + 50° C.
- Min. bending radius : 8 x D.

Standards:

- Standard : BS 5308 Part 1 Type 2.
- Insulation : BS 6234 Type 03.
- Core identification : BS 5308 Part 1 colour coded.
- Bedding : BS 6234 Type 03.
- Armour : BS EN 10257-1.
- Outer sheath : TM1, BS 7655.
- Flame retardancy test : IEC 60332-1 & BS EN 60332-1.

Technical data and tests:

- Mutual capacitance (1 kHz) : ≤ 2 pairs all other pairs
0,50 mm² : max. 115 pF/m, max. 75 pF/m;
1,0 mm² : max. 115 pF/m, max. 75 pF/m;
1,5 mm² : max. 120 pF/m, max. 85 pF/m;
- Conductor resistance (20° C) : 0,50 mm² : 36,8 Ω/km;
1,0 mm² : 18,4 Ω/km;
0,50 mm² : 39,7 Ω/km;
1,5 mm² : 12,3 Ω/km.
- L/R (oran-ratio) (max) : 0,50 mm² : 25 μH/Ω;
1,0 mm² : 25 μH/Ω;
1,5 mm² : 40 μH/Ω.
- Insulation thickness : 0,50 mm : 0,50 mm;
1,0 mm² : 0,60 mm;
0,50 mm² : 0,60 mm;
1,50 mm² : 0,60 mm.
- Conductor class, BS 6360 : 0,50 mm² : Class 1;
1,0 mm² : Class 1;
0,50 mm² : Class 5;
1,5 mm² : Class 2.

Applications:

These cables are used for transmission of analogue and digital signals in instrument 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. The armour above the inner sheath protects the cable from mechanical shocks. These cables are recommended for direct burial. They are for indoor and outdoor installation, in dry and wet locations; on racks, trays, in conduits.



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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
Flexible				
1x2x0,50	7,0	11,4	14	210
2x2x0,50	7,1	11,5	24	255
5x2x0,50	11,6	16,2	52	425
10x2x0,50	15,0	20,7	100	740
15x2x0,50	17,1	22,8	149	895
20x2x0,50	19,4	26,0	196	1225
30x2x0,50	23,0	29,8	292	1560
50x2x0,50	28,9	36,1	484	2825
Mono/solid				
1x2x0,50	6,3	10,7	14	200
2x2x0,50	7,9	12,3	24	270
5x2x0,50	13,1	17,9	52	490
10x2x0,50	17,2	22,9	100	820
15x2x0,50	19,8	26,4	149	1230
20x2x0,50	22,3	29,1	196	1430
30x2x0,50	26,9	33,9	292	1890
50x2x0,50	33,9	42,1	484	2240
Mono-solid (1,0) / Stranded (1,5)				
1x2x1	7,4	11,8	24	235
2x2x1	8,4	13,0	43	330
5x2x1	14,2	19,7	100	685
10x2x1	18,4	24,3	196	1000
15x2x1	21,3	28,1	292	1460
20x2x1	24,4	31,2	388	1750
30x2x1	29,0	36,2	580	2260
50x2x1	37,3	45,7	964	3640
1x2x1,5	8,3	12,9	33	280
2x2x1,5	9,7	14,3	62	380
5x2x1,5	16,4	22,1	148	830
10x2x1,5	21,6	28,4	292	1495
15x2x1,5	25,2	32,2	436	1920
20x2x1,5	28,5	35,7	580	2490
30x2x1,5	34,3	42,5	868	3250
50x2x1,5	43,6	53,4	1444	4990

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