

RE-2YCYSWAY-fl-PIMF 70° C

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

Instrumentation Cables PVC DK-PE 300 V

PE insulated, screened, armoured PVC sheathed cable



HALLEY CABLES

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RE-2YCYSWAY-fl-PIMF

Construction:

- Conductor : plain copper wire, stranded.
- Insulation : PE compound.
- Core identification : black / white ; with numbered tape under separator tape of the pair screen. Upon request: black / white 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. It can be manufactured as RE-2Y(St)CYSWAY-PIMF upon request.
- Lay-up : PIMF laid up in layers of optimum pitch.
- Separator : polyester tape.
- Screen : braid of tinned Cu wires, 85% coverage.
- Inner sheath : PVC compound.
- Armour : galvanized round steel wire.
- Outer sheath : PVC compound, flame retardant.
- 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 ~ + 70° C;
installation : - 5° C ~ + 50° C.
- Min. bending radius : 10 x D.
- Insulation resistance : min. 5000 MΩ/km.
- Capacitance unbalanced : (1 kHz) : max. 500 pF/500 m.

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;
1,5 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) : ≤ 4 pairs all other pairs
0,50 mm² : max. 115 pF/m, max. 90 pF/m;
0,75 mm² : max. 115 pF/m, max. 90 pF/m;
1,0 mm² : max. 115 pF/m, max. 90 pF/m;
1,3 mm² : max. 120 pF/m, max. 105 pF/m;
1,5 mm² : max. 120 pF/m, max. 105 pF/m.

Standards:

- Design : DIN EN 50288-7.
- Conductor : IEC 60228 class 2, DIN EN 60228 class 2.
- Insulation : EN 50290-2-23.
- Armour : EN 10257-1.
- 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 for direct connection to a low impedance source, e.g. public mains electricity supply. With blue sheath it is suitable for intrinsically safe systems. The armour above the inner sheath protects the cable from mechanical shocks. 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.



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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	9,5	14,1	65	345
2x2x0,75	10,3	14,9	78	380
2x2x1	11,1	15,7	91	415
2x2x1,3	12,3	17,1	107	475
2x2x1,5	12,6	17,4	116	495
4x2x0,50	10,9	15,5	109	435
4x2x0,75	11,8	16,6	132	490
4x2x1	12,8	17,6	155	545
4x2x1,3	14,2	19,0	184	615
4x2x1,5	14,7	19,5	201	650
5x2x0,50	11,6	16,4	131	485
5x2x0,75	12,6	17,4	160	545
5x2x1	13,6	18,4	188	605
5x2x1,3	15,2	20,9	223	800
5x2x1,5	15,7	20,7	244	735
6x2x0,50	12,4	17,2	154	535
6x2x0,75	13,6	18,4	187	600
6x2x1	14,7	20,4	221	775
6x2x1,3	16,4	22,1	262	885
6x2x1,5	16,9	22,6	287	930
8x2x0,50	13,9	18,7	198	625
8x2x0,75	15,2	20,9	242	820
8x2x1	16,5	22,2	286	915
8x2x1,3	18,5	24,4	340	1055
8x2x1,5	19,5	25,4	406	1160
10x2x0,50	15,2	20,2	242	720
10x2x0,75	16,7	22,4	296	930
10x2x1	18,1	24,0	350	1050
10x2x1,3	20,7	26,6	451	1260
10x2x1,5	21,5	27,6	494	1340
12x2x0,50	16,4	22,1	285	910
12x2x0,75	18,0	23,9	349	1050
12x2x1	20,0	25,9	447	1220
12x2x1,3	22,4	28,5	531	1420
12x2x1,5	23,2	29,3	582	1500
16x2x0,50	18,5	24,4	370	1090
16x2x0,75	20,8	26,7	490	1300

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16x2x1	22,6	28,7	578	1475
16x2x1,3	25,4	32,4	687	1885
16x2x1,5	26,7	33,7	754	2030
20x2x0,50	20,8	26,7	490	1305
20x2x0,75	22,8	28,9	599	1510
20x2x1	25,3	32,3	707	1915
20x2x1,3	28,4	35,6	841	2225
20x2x1,5	29,4	36,6	924	2360
24x2x0,50	22,4	28,5	577	1475
24x2x0,75	25,1	31,4	706	1745
24x2x1	27,4	34,4	835	2150
24x2x1,3	31,2	38,4	1048	2575
24x2x1,5	32,3	39,7	1149	2750

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