



HALLEY CABLES

RE-2Y(St)YSWAY-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



Construction:

- Conductor : plain copper wire, stranded.
- Insulation : PE compound, (RE-2Y....).
- 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. Upon request: stranded 0,50 mm² copper drain wire.
- Lay-up : pairs laid up in layers of optimum pitch.
- Separator : polyester tape.
- Screen : AL-PES tape over tinned copper drain wire 0,50 mm².
- Inner sheath : PVC compound, flame retardant.
- 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.

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.
- Inner/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 they are 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;
1,5 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) : max. 120 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	13,7	34	300
2x2x0,75	14,5	43	330
2x2x1	15,3	53	365
2x2x1,3	16,7	64	415
2x2x1,5	17,0	72	435
4x2x0,50	15,1	62	370
4x2x0,75	16,2	82	425
4x2x1	17,2	101	475
4x2x1,3	18,6	123	540
4x2x1,5	19,1	139	570
5x2x0,50	16,0	77	414
5x2x0,75	17,0	101	470
5x2x1	18,0	125	525
5x2x1,3	20,5	153	710
5x2x1,5	20,3	173	650
6x2x0,50	16,8	91	454
6x2x0,75	18,0	120	520
6x2x1	20,0	149	685
6x2x1,3	21,7	183	790
6x2x1,5	22,2	206	830
8x2x0,50	18,3	120	535
8x2x0,75	20,5	158	720
8x2x1	21,8	197	805
8x2x1,3	24,0	242	940
8x2x1,5	24,6	274	995
10x2x0,50	19,8	149	615
10x2x0,75	22,0	197	815
10x2x1	23,6	245	930
10x2x1,3	25,8	302	1075
10x2x1,5	26,8	341	1150
12x2x0,50	21,7	178	790
12x2x0,75	23,5	235	915
12x2x1	25,1	293	1035
12x2x1,3	27,7	361	1220
12x2x1,5	28,5	408	1295
16x2x0,50	24,0	235	940
16x2x0,75	25,9	312	1090





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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
16x2x1	27,9	389	1255
16x2x1,3	31,6	480	1640
16x2x1,5	32,9	542	1780
20x2x0,50	25,9	293	1075
20x2x0,75	28,1	389	1265
20x2x1	31,5	485	1655
20x2x1,3	34,8	600	1945
20x2x1,5	35,8	677	2070
24x2x0,50	27,7	350	1220
24x2x0,75	30,6	466	1470
24x2x1	33,6	581	1860
24x2x1,3	37,2	719	2190
24x2x1,5	38,5	811	2355

