



HALLEY CABLES

RE-2Y(St)Y-fl PIMF 70° C

CU/PE/ISCR/OSCR/PVC

Instrumentation Cables PVC DK PE 500 V

PE insulated, individual & collective screened, PVC sheathed cable

RE-2Y(St)Y-fl-PIMF



Construction:

- Conductor : plain copper wire, stranded.
- Insulation : PE compound (RE-2Y...).
- Core identification : black / blue with numbered tape under separator tape of the pair screen. Upon request: black / blue cores numbered 1-1, 2-2,...
- 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, flame retardant.
- Sheath colour : RAL 9005, black or RAL 5015, blue.

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 : 7.5 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.
- 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 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. 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.
- 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 100 pF/m.

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DIMENSIONS

No. of cores x cross section no x mm ²	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
2x2x0,50	10,3	34	85
2x2x0,75	11,3	43	105
2x2x1	12,1	53	120
2x2x1,3	13,0	64	140
2x2x1,5	13,8	72	155
4x2x0,50	12,1	62	135
4x2x0,75	13,1	82	165
4x2x1	14,2	101	195
4x2x1,3	15,4	123	230
4x2x1,5	16,1	139	250
5x2x0,50	12,9	77	160
5x2x0,75	14,2	101	200
5x2x1	15,2	125	235
5x2x1,3	16,7	153	280
5x2x1,5	17,5	173	305
6x2x0,50	14,1	91	190
6x2x0,75	15,2	120	230
6x2x1	16,6	149	275
6x2x1,3	18,0	183	325
6x2x1,5	19,0	206	365
8x2x0,50	15,9	120	240
8x2x0,75	17,4	158	295
8x2x1	18,7	197	350
8x2x1,3	20,5	242	425
8x2x1,5	21,7	274	475
10x2x0,50	17,6	149	295
10x2x0,75	19,3	197	365
10x2x1	20,7	245	430
10x2x1,3	22,8	302	520
10x2x1,5	23,9	341	575
12x2x0,50	19,2	178	350
12x2x0,75	20,8	235	425
12x2x1	22,6	293	510
12x2x1,3	24,8	361	620
12x2x1,5	26,0	408	680
16x2x0,50	21,9	235	455
16x2x0,75	23,7	312	550

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DIMENSIONS

No. of cores x cross section no x mm ²	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
16x2x1	25,8	389	665
16x2x1,3	28,3	480	805
16x2x1,5	29,9	542	900
20x2x0,50	24,1	293	545
20x2x0,75	26,3	389	680
20x2x1	28,6	485	820
20x2x1,3	31,4	600	990
20x2x1,5	33,1	677	1110
24x2x0,50	26,2	350	645
24x2x0,75	28,7	466	805
24x2x1	31,2	581	970
24x2x1,3	34,2	719	1175
24x2x1,5	36,1	811	1315

