



HALLEY CABLES

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

Construction:

- Conductor : plain copper wire, stranded.
- Insulation : PE compound (RE-2Y...).
- Core identification : black / blue / red; with numbered tape under separator tape of the pair screen. Upon request: black / blue / red cores numbered 1-1-1, 2-2-2,...
- Triple : three conductors twisted to a triple.
- TIMF 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 : TIMF 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.
IEC 60332-3 & DIN EN 50266-2-4.

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 mm ²	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
2x3x0,50	12,4	43	115
2x3x0,75	13,5	58	140
2x3x1	14,5	72	160
2x3x1,3	15,7	89	190
2x3x1,5	16,7	101	215
4x3x0,50	14,3	82	180
4x3x0,75	15,5	110	220
4x3x1	16,8	139	270
4x3x1,3	18,2	174	320
4x3x1,5	19,3	197	360
5x3x0,50	15,1	101	215
5x3x0,75	16,5	137	270
5x3x1	17,8	173	315
5x3x1,3	19,5	216	385
5x3x1,5	20,4	245	425
6x3x0,50	16,5	120	255
6x3x0,75	17,8	163	310
6x3x1	19,4	206	375
6x3x1,3	21,1	258	450
6x3x1,5	22,3	292	510
8x3x0,50	18,6	158	320
8x3x0,75	20,3	216	405
8x3x1	22,1	274	490
8x3x1,3	24,0	343	585
8x3x1,5	25,4	389	660
10x3x0,50	20,6	197	390
10x3x0,75	22,5	267	495
10x3x1	24,5	341	600
10x3x1,3	26,6	427	720
10x3x1,5	28,1	485	810
12x3x0,50	22,5	235	465
12x3x0,75	24,6	322	590
12x3x1	26,5	408	700
12x3x1,3	29,0	512	855
12x3x1,5	30,7	581	965
16x3x0,50	25,6	312	605
16x3x0,75	28,0	427	760

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No. of cores x cross section mm ²	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
16x3x1	30,4	542	925
16x3x1,3	33,4	681	1130
16x3x1,5	35,2	773	1270
20x3x0,50	28,4	389	740
20x3x0,75	31,1	533	940
20x3x1	33,7	677	1140
20x3x1,3	37,0	850	1390
20x3x1,5	39,0	965	1560
24x3x0,50	30,9	466	880
24x3x0,75	33,8	638	1115
24x3x1	36,7	811	1350
24x3x1,3	40,3	1019	1650
24x3x1,5	42,5	1157	1855

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