



HALLEY CABLES

RE-2Y(St)YSWAY-fl TIMF 70° C

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

Instrumentation Cables PVC DK PE 500 V

PE insulated, screened, armoured, PVC sheathed cable

RE-2Y(St)YSWAY-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,... Other core configurations manufactured upon request.
- 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 tinned copper drain wire 0,50 mm².
- 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 : 500 V.
- Test voltage : Urms core-core : 2000 V;
Urms core-screen : 2000 V.
- Temperature range : operation : - 30° C ~ + 90° C;
installation : - 5° C ~ + 50° C.
- Min. bending radius : 10 x D.

Standards:

- Design : DIN EN 50288-7.
- Conductor : IEC 60228 class 2,
DIN EN 60228 class 2.
- Insulation : EN 50290-2-23.
- Inner/Outer sheath : EN 50290-2-22.
- Armour : EN 10257-1.
- Flame retardancy test : 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. 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.

Technical data and tests:

- Conductor resistance (20° C) : 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.
- Insulation resistance (20° C) : min. 5000 MΩ/km.
- Mutual capacitance (1 kHz) : max. 100 pF/m.
- 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.

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DIMENSIONS

No. of cores x cross section no x mm ²	Approx. bedding diameter mm	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
2x3x0,50	12,2	17,0	43	410
2x3x0,75	13,1	17,9	58	450
2x3x1	14,1	19,1	72	505
2x3x1,3	15,3	21,0	89	665
2x3x1,5	16,1	21,8	101	700
4x3x0,50	13,9	18,7	82	510
4x3x0,75	15,1	20,8	110	685
4x3x1	16,2	21,9	139	755
4x3x1,3	17,6	23,5	174	860
4x3x1,5	18,5	24,4	197	915
5x3x0,50	14,7	19,7	101	570
5x3x0,75	15,9	21,6	137	750
5x3x1	17,2	23,1	173	845
5x3x1,3	18,7	24,6	216	950
5x3x1,5	19,6	25,5	245	1015
6x3x0,50	15,9	21,6	120	735
6x3x0,75	17,2	23,1	163	840
6x3x1	18,6	24,5	206	935
6x3x1,3	20,3	26,2	258	1060
6x3x1,5	21,3	27,4	292	1145
8x3x0,50	18,0	23,9	158	870
8x3x0,75	19,5	25,4	216	990
8x3x1	21,1	27,2	274	1120
8x3x1,3	23,0	29,1	343	1275
8x3x1,5	24,6	31,6	389	1580
10x3x0,50	19,8	25,7	197	985
10x3x0,75	21,5	27,6	267	1145
10x3x1	23,3	29,4	341	1290
10x3x1,3	25,8	32,8	427	1685
10x3x1,5	27,1	34,3	485	1830
12x3x0,50	21,5	27,6	235	1110
12x3x0,75	23,8	30,1	322	1325
12x3x1	25,7	32,7	408	1660
12x3x1,3	28,0	35,2	512	1905
12x3x1,5	29,5	36,7	581	2050
16x3x0,50	24,8	31,8	312	1535
16x3x0,75	27,0	34,2	427	1775





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DIMENSIONS

No. of cores x cross section no x mm ²	Approx. bedding diameter mm	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
16x3x1	29,2	36,4	542	2000
16x3x1,3	32,0	39,4	681	2305
16x3x1,5	33,6	42,0	773	2760
20x3x0,50	27,4	34,6	389	1765
20x3x0,75	29,9	37,1	533	2040
20x3x1	32,3	39,7	677	2330
20x3x1,3	35,8	44,2	850	3005
20x3x1,5	37,6	46,2	965	3260
24x3x0,50	29,7	36,9	466	1975
24x3x0,75	32,4	39,8	638	2305
24x3x1	35,5	43,9	811	2960
24x3x1,3	38,9	47,5	1019	3405
24x3x1,5	40,9	49,7	1157	3695

