



HALLEY CABLES

RE-Y(St)YSWAY-fl-TIMF 70° C

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

Instrumentation Cables PVC DK PVC 500 V

PVC insulated and sheathed, screened, armoured, PVC sheathed cable



Construction:

- Conductor : plain copper wire, stranded.
- Insulation : PVC compound, 70° C.
- 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 triple, 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.
- Inner sheath : PVC compound 70° C.
- Armour : galvanized round steel wire.
- Outer sheath : PVC compound, 70° C.
- 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 : 10 x D.
- Insulation resistance : min. 100 MΩ/km.

Standards:

- Design : DIN EN 50288-7.
- Insulation : EN 50290-2-21.
- Conductor : IEC 60228 class 2, DIN EN 60228 class 2.
- Inner sheath : EN 50290-2-22.
- Armour : EN 10257-1.
- Outer sheath : EN 50290-2-22.
- Flame retardance test : 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. Where endurance at 105° C is needed, RE-Yw(St)YwSWAYw-TIMF cables are suitable. 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.
- Mutual Capacitance : 0,50 mm² : max. 160 pF/m;
0,75 mm² : max. 160 pF/m;
1,0 mm² : max. 160 pF/m;
1,3 mm² : max. 170 pF/m;
1,5 mm² : max. 170 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 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	415
2x3x0,75	13,1	17,9	58	460
2x3x1	14,1	19,1	72	515
2x3x1,3	15,3	21,0	89	675
2x3x1,5	16,1	21,8	101	715
4x3x0,50	13,9	18,7	82	525
4x3x0,75	15,1	20,8	110	700
4x3x1	16,2	21,9	139	775
4x3x1,3	17,6	23,5	174	880
4x3x1,5	18,5	24,4	197	940
5x3x0,50	14,7	19,7	101	585
5x3x0,75	15,9	21,6	137	770
5x3x1	17,2	23,1	173	865
5x3x1,3	18,7	24,6	216	975
5x3x1,5	19,6	25,5	245	1045
6x3x0,50	15,9	21,6	120	755
6x3x0,75	17,2	23,1	163	860
6x3x1	18,6	24,5	206	960
6x3x1,3	20,3	26,2	258	1090
6x3x1,5	21,3	27,4	292	1180
8x3x0,50	18,0	23,9	158	895
8x3x0,75	19,5	25,4	216	1020
8x3x1	21,1	27,2	274	1155
8x3x1,3	23,0	29,1	343	1315
8x3x1,5	24,6	31,6	389	1625
10x3x0,50	19,8	25,7	197	1020
10x3x0,75	21,5	27,6	267	1175
10x3x1	23,3	29,4	341	1330
10x3x1,3	25,8	32,8	427	1735
10x3x1,5	27,1	34,3	485	1880
12x3x0,50	21,5	27,6	235	1150
12x3x0,75	23,8	30,1	322	1365
12x3x1	25,7	32,7	408	1710
12x3x1,3	28,0	35,2	512	1960
12x3x1,5	29,5	36,7	581	2110
16x3x0,50	24,8	31,8	312	1580
16x3x0,75	27,0	34,2	427	1830

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16x3x1	29,2	36,4	542	2070
16x3x1,3	32,0	39,4	681	2385
16x3x1,5	33,6	42,0	773	2845
20x3x0,50	27,4	34,6	389	1830
20x3x0,75	29,9	37,1	533	2110
20x3x1	32,3	39,7	677	2410
20x3x1,3	35,8	44,2	850	3105
20x3x1,5	37,6	46,2	965	3365
24x3x0,50	29,7	36,9	466	2050
24x3x0,75	32,4	39,8	638	2395
24x3x1	35,5	43,9	811	3055
24x3x1,3	38,9	47,5	1019	3520
24x3x1,5	40,9	49,7	1157	3825

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