



HALLEY CABLES

RE-Y(St)YSWAY-fI MP CU/PVC/OSCR/PVC/SWA/PVC

Instrumentation Cables PVC DK PVC 300 V

PVC insulated, screened, armoured, PVC sheathed cable

RE-Y(St)YSWAY-fI MP

Construction:

Conductor	: plain copper wire, stranded.
Insulation	: PVC compound, 70° C.
Core identification	: black / white cores numbered 1-1, 2-2,... Upon request: colour coded according to IEC 60189-2. Other core configurations manufactured upon request.
Pair	: two conductors twisted to a pair.
Lay-up	: pairs laid up in layers of optimum pitch.
Separator	: polyester tape.
Screen	: AL-PES tape over stranded tinned copper drain wire 0,50 mm ² .
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	: 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. 100 MΩ/km.
Capacitance unbalanced	: (1 kHz) : max. 500 pF/500 m.

Standards:

Design	: DIN EN 50288-7.
Conductor	: IEC 60228 class 2, DIN EN 60228 class 2.
Insulation	: EN 50290-2-21.
Inner/outer sheath	: EN 50290-2-22.
Armour	: EN 10257-1.
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 to be directly connected to a low impedance source, e.g. public mains electricity supply. The armour above the sheath protects the cable from mechanical shocks. 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:

Insulation thickness	: 0,50 mm ² : 0,40 mm; 0,75 mm ² : 0,40 mm; 1,0 mm ² : 0,40 mm; 1,3 mm ² : 0,45 mm; 1,5 mm ² : 0,45 mm.
Conductor resistance	: 0,50 mm ² : 36,7 Ω/km; 0,75 mm ² : 25,0 Ω/km; 1,0 mm ² : 18,5 Ω/km; 1,3 mm ² : 14,2 Ω/km; 1,5 mm ² : 12,3 Ω/km.
L/R (ratio) (max)	: 0,50 mm ² : 25 μH/Ω; 0,75 mm ² : 25 μH/Ω; 1,0 mm ² : 25 μH/Ω; 1,3 mm ² : 40 μH/Ω; 1,5 mm ² : 40 μH/Ω.
Mutual capacitance (1 kHz)	: <u>≤ 4 pairs</u> <u>all other pairs</u> 0,50 mm ² : max. 190 pF/m; max 150 pF/m; 0,75 mm ² : max. 190 pF/m; max 150 pF/m; 1,0 mm ² : max. 190 pF/m; max 150 pF/m; 1,3 mm ² : max. 200 pF/m; max 150 pF/m; 1,5 mm ² : max. 200 pF/m. max 150 pF/m.





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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
1x2x0,50	5,8	10,2	14	190
1x2x0,75	6,2	10,6	19	205
1x2x1	6,6	11,0	24	220
1x2x1,3	7,2	11,8	30	250
1x2x1,5	7,4	12,0	34	260
2x2x0,50	8,1	12,7	24	275
2x2x0,75	8,8	13,4	34	300
2x2x1	9,5	14,1	43	330
2x2x1,3	10,5	15,1	55	370
2x2x1,5	10,8	15,6	62	395
4x2x0,50	9,4	14,0	43	335
4x2x0,75	10,2	14,8	62	380
4x2x1	11,1	15,9	82	430
4x2x1,3	12,3	17,1	105	495
4x2x1,5	12,7	17,5	120	520
5x2x0,50	9,9	14,5	53	360
5x2x0,75	10,7	15,5	77	420
5x2x1	11,6	16,4	101	470
5x2x1,3	12,9	17,7	130	545
5x2x1,5	13,4	18,2	149	575
6x2x0,50	10,6	15,4	62	400
6x2x0,75	11,5	16,3	91	460
6x2x1	12,5	17,3	120	520
6x2x1,3	13,9	18,7	155	605
6x2x1,5	14,4	20,1	178	750
8x2x0,50	11,8	16,6	82	465
8x2x0,75	12,9	17,7	120	540
8x2x1	14,0	18,8	158	615
8x2x1,3	15,7	21,4	204	835
8x2x1,5	16,3	22,0	235	885
10x2x0,50	12,9	17,7	101	525
10x2x0,75	14,2	19,0	149	610
10x2x1	15,4	21,1	197	815
10x2x1,3	17,3	23,0	254	955
10x2x1,5	17,9	23,8	293	1025
12x2x0,50	13,9	18,7	120	580
12x2x0,75	15,3	21,0	178	795





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12x2x1	16,7	22,4	235	905
12x2x1,3	18,7	24,6	304	1080
12x2x1,5	19,4	25,3	350	1155
16x2x0,50	15,7	21,4	158	800
16x2x0,75	17,3	23,2	235	950
16x2x1	18,9	24,8	312	1095
16x2x1,3	21,2	27,3	404	1310
16x2x1,5	22,0	28,1	466	1405
20x2x0,50	17,3	23,2	197	920
20x2x0,75	19,1	25,0	293	1090
20x2x1	20,8	26,9	389	1275
20x2x1,3	23,4	29,5	504	1520
20x2x1,5	24,3	30,6	581	1650
24x2x0,50	18,7	24,6	235	1025
24x2x0,75	20,6	26,7	350	1235
24x2x1	22,6	28,7	466	1440
24x2x1,3	25,8	32,8	604	1945
24x2x1,5	26,8	33,8	696	2085

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