

RE-Y(St)YSWAY-fl MP

Construction:

Conductor	: plain copper wire, stranded.
Insulation	: PVC compound, 70° C.
Core identification	: black / blue 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	: 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 (20° C)	: 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 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. 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 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.
Mutual capacitance (1 kHz)	: 0,50 mm ² : max. 120 pF/m; 0,75 mm ² : max. 120 pF/m; 1,0 mm ² : max. 120 pF/m; 1,3 mm ² : max. 130 pF/m; 1,5 mm ² : max. 130 pF/m.
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;



HALLEY CABLES

RE-Y(St)YSWAY-fl MP 70° C CU/PVC/OSCR/PVC/SWA/PVC Instrumentation Cables PVC DK PVC 500 V PVC insulated, screened, armoured, PVC sheathed cable

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RE-Y(St)YSWAY-fl MP 70° C ~ CU/PVC/OSCR/PVC/SWA/PVC

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	6,4	10,8	14	205
1x2x0,75	6,8	11,2	19	225
1x2x1	7,2	11,8	24	245
1x2x1,3	7,7	12,3	30	265
1x2x1,5	8,0	12,6	34	280
2x2x0,50	9,2	13,8	24	300
2x2x0,75	9,8	14,4	34	330
2x2x1	10,5	15,1	43	360
2x2x1,3	11,3	16,1	55	410
2x2x1,5	11,9	16,7	62	430
4x2x0,50	10,7	15,5	43	380
4x2x0,75	11,5	16,3	62	430
4x2x1	12,3	17,1	82	475
4x2x1,3	13,3	18,1	105	535
4x2x1,5	14,0	18,8	120	570
5x2x0,50	11,2	16,0	53	415
5x2x0,75	12,0	16,8	77	465
5x2x1	12,9	17,7	101	520
5x2x1,3	14,0	18,8	130	590
5x2x1,5	14,7	19,7	149	640
6x2x0,50	12,0	16,8	62	455
6x2x0,75	13,0	17,8	91	515
6x2x1	13,9	18,7	120	575
6x2x1,3	15,1	20,8	155	765
6x2x1,5	15,8	21,5	178	820
8x2x0,50	13,5	18,3	82	525
8x2x0,75	14,6	19,6	120	610
8x2x1	15,7	21,4	158	795
8x2x1,3	17,1	23,0	204	915
8x2x1,5	17,9	23,8	235	980
10x2x0,50	14,8	19,8	101	605
10x2x0,75	16,0	21,7	149	805
10x2x1	17,3	23,2	197	915
10x2x1,3	18,8	24,7	254	1045
10x2x1,5	19,8	25,7	293	1125
12x2x0,50	16,0	21,7	120	780
12x2x0,75	17,3	23,2	178	905



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
12x2x1	18,7	24,6	235	1025
12x2x1,3	20,4	26,3	304	1170
12x2x1,5	21,4	27,5	350	1275
16x2x0,50	18,1	24,0	158	930
16x2x0,75	19,6	25,5	235	1075
16x2x1	21,2	27,3	312	1235
16x2x1,3	23,6	29,7	404	1460
16x2x1,5	24,8	31,8	466	1755
20x2x0,50	19,9	25,8	197	1060
20x2x0,75	21,7	27,8	293	1250
20x2x1	23,8	29,9	389	1460
20x2x1,3	26,0	33,0	504	1875
20x2x1,5	27,3	34,5	581	2045
24x2x0,50	21,6	27,7	235	1195
24x2x0,75	23,9	30,0	350	1435
24x2x1	25,8	32,8	466	1830
24x2x1,3	28,2	35,4	604	2130
24x2x1,5	29,7	36,9	696	2305