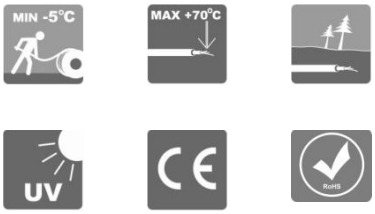
YKSY, YKSY-żo 0,6/1kV

PN-93/E-90403, PN-HD-603 S1, IEC 60502-1

PVC insulated and PVC sheathed control cable





CONSTRUCTION	
Conductors:	annealed copper solid class 1(RE), circular or circular compacted stranded conductor class 2 (RM) acc. to EN 60228
Insulation:	special PVC compound type PVC/A acc. to IEC 60502-1
Sheath:	special PVC compound type ST1 acc. to IEC 60502-1

CHARACTERISTIC		
Colour of sheath:	UV black	
Range of sizes:		
Number of cores:		Nominal cross-sectional area (mm^2)
7, 10, 14, 19, 24, 30, 37, 48, 61, 75		1; 1,5
7, 10, 14, 19, 24, 30, 37		2,5
7, 10		4; 6; 10
Core identification:		
YKSY-żo		**YKSY**
in each layer of cable assembly: marker core – brown direction-indicating core – blue others – natural colour in external layer: green/yellow, blue, natural - others, or cores identified by numbers + green/yellow		in each layer of cable assembly: marker core – brown direction-indicating core – blue others – natural colour, or cores identified by numbers
Maximum conductor operating temperature:		+70°C
Lowest ambient temperature for fixed installation:		-30°C
Lowest installation temperature:		-5°C
Maximum short-circuit conductor temperature:		+ 160°C
Minimum bending radius:		10 x D multicore cables, D – overall diameter
Max. permissible tensile stress with cable grip for Cu-conductor:		50 N/mm^2
Test voltage:		3,5kV
Current of short-circuit (1 sec):		115 x nominal cross section conductor (A)
Flame retardant:		IEC 60332-1-2

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APPLICATIONS

PVC insulated and sheathed control cables for the supply of electrical energy.
Special for installations in the open air, in underground and water, indoors, in cable ducts.

Standard length cable packing	1000m on drums. Other forms of packing and delivery are available on request

APPROVALS

BBJ, GOST

Number and cross-sectional area of conductor	Approximate overall diameter	Approximate net weight of cables	Maximum conductor resistance at temperature 20°C
n x mm²	**mm**	**kg/km**	Ω/km
7x1	10,6	171	18,1
10x1	13,1	233	18,1
14x1	14,2	300	18,1
19x1	15,7	385	18,1
24x1	18,2	478	18,1
30x1	19,2	574	18,1
37x1	20,7	688	18,1
48x1	23,6	871	18,1
61x1	25,9	1091	18,1
75x1	28,8	1321	18,1
7x1,5	11,4	213	12,1
10x1,5	14,1	292	12,1
14x1,5	15,3	381	12,1
19x1,5	16,9	492	12,1
24x1,5	19,7	613	12,1
30x1,5	20,8	740	12,1
37x1,5	22,4	892	12,1
48x1,5	25,8	1146	12,1
61x1,5	28,1	1424	12,1
75x1,5	31,7	1752	12,1
7x2,5	12,5	288	7,41
10x2,5	15,7	400	7,41
14x2,5	17,0	527	7,41
19x2,5	18,8	688	7,41
24x2,5	21,9	859	7,41
30x2,5	23,2	1045	7,41
37x2,5	25,1	1265	7,41
7x4	15,1	431	4,61
10x4	19,1	603	4,61

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PN-93/E-90403, PN-HD-603 S1, IEC 60502-1

Number and cross-sectional area of conductor	Approximate overall diameter	Approximate net weight of cables	Maximum conductor resistance at temperature 20°C
n x mm²	**mm**	**kg/km**	Ω/km
7x6	16,6	574	3,08
10x6	21,1	806	3,08
7x10	18,9	856	1,83
10x10	24,2	1208	1,83

Current ratings

Operating temperature at conductor 70°C; ambient air temperature 25°C, ground temperature 20°C

	Cross-section, mm²											
	1,0	1,5	2,5	4	6	10	1,0	1,5	2,5	4	6	10
Installation	laying in ground						laying in air					
Number of loaded cores	Current ratings in Ampere (A)											
7	11	14	19	24	31	41	10	13	18	23	30	42
10	9	12	16	20	26	34	8	11	15	20	25	35
14	8	11	14	-	-	-	8	10	14	-	-	-
19	7	10	12	-	-	-	7	9	12	-	-	-
24	6	8	11	-	-	-	6	8	11	-	-	-
30	5	7	11	-	-	-	5	7	11	-	-	-
37	5	6	10	-	-	-	5	6	11	-	-	-
48	5	6	-	-	-	-	5	6	-	-	-	-
61	5	6	-	-	-	-	5	6	-	-	-	-
75	5	6	-	-	-	-	5	6	-	-	-	-

YKSY, YKSY-żo 0,6/1kV

PN-93/E-90403, PN-HD-603 S1, IEC 60502-1

MAX. INDUCTANCE and MAX.CAPACITY in temperature 20^{0}C

Cross-section, mm^2	Inductance (mH/km)	Capacity (µF/km)
	core-core	core-core
1,0	0,83	0,12
1,5	0,79	0,14
2,5	0,75	0,18
4,0	0,72	0,23
6,0	0,68	0,28
10,0	0,64	0,36

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