

YKY, YKY-żo 0,6/1kV

PN-93/E-90401, PN-HD-603 S1, IEC 60502-1



PVC insulated and PVC sheathed power cable



CONSTRUCTION

Conductors:	annealed copper solid class 1(RE), circular or circular compacted stranded conductor class 2 (RM, RMC) or stranded sector – shaped conductor class 2 (SM) acc. to EN 60228
Insulation:	special PVC compound type PVC/A acc. to IEC 60502-1
Inner covering:	filling compound – only in case round core over 10mm ²
Sheath:	special PVC compound type ST1 acc. to IEC 60502-1

CHARACTERISTIC

Colour of sheath:	UV black	
Core identification:		
	YKY-żo	YKY
1-core:	green-yellow	black
2-core:		blue, brown
3-core:	green-yellow, blue, brown	brown, black, grey
3-core:*		blue, brown, black
4-core:	green-yellow, brown, black, grey	blue, brown, black, grey
4-core:*	green-yellow, blue, brown, black	
5-core:	green-yellow, blue, brown, black, grey	blue, brown, black, grey, black
* For certain applications only.		
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 for cross-sectional area of conductor ≤ 300 mm ² and + 140°C for cross-sectional area of conductor > 300 mm ²	
Minimum bending radius:	10 x D, D – overall diameter	
Max. permissible tensile stress with cable grip for Cu-conductor:	50 N/mm ²	
Napięcie probiercze AC 50Hz 5min:	3,5kV	
Flame retardant:	IEC 60332-1-2	

APPLICATIONS

PVC insulated and sheathed power 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
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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 mm ²	mm	kg/km	Ω/km
1x1RE	4,9	35	18,1
1x1,5RE	5,2	42	12,1
1x2,5RE	5,5	53	7,41
1x4RE	6,4	76	4,61
1x6RE	6,9	97	3,08
1x10RE	7,7	140	1,83
1x16RE	8,6	198	1,15
1x25RMC	10,7	310	0,727
1x35RMC	11,8	406	0,524
1x50RMC	13,5	541	0,387
1x70RMC	14,8	740	0,268
1x95RMC	17,4	1019	0,193
1x120RMC	18,8	1253	0,153
1x150RMC	21,0	1548	0,124
1x185RMC	22,9	1920	0,0991
1x240RMC	26,0	2486	0,0754
1x300RMC	28,4	3095	0,0601
1x400RMC	31,7	3971	0,0470
1x500RMC	35,5	5055	0,0366
2x1RE	8,0	91	18,1
2x1,5RE	8,5	108	12,1
2x2,5RE	9,3	138	7,41
2x4RE	11,0	200	4,61
2x6RE	12,0	255	3,08
2x10RE	13,6	360	1,83
2x16RE	16,0	557	1,15
2x25RMC	20,4	898	0,727
2x35RMC	22,5	1155	0,524

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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
3x1RE	8,4	106	18,1
3x1,5RE	8,9	128	12,1
3x2,5RE	9,8	167	7,41
3x4RE	11,6	244	4,61
3x6RE	12,7	316	3,08
3x10RE	14,4	456	1,83
3x16RE	16,9	699	1,15
3x25RMC	21,7	1125	0,727
3x35RMC	23,9	1462	0,524
3x35SM	21,0	1194	0,524
3x50SM	26,5	1891	0,387
3x70SM	29,6	2596	0,268
3x95SM	34,2	3560	0,193
3x120SM	37,1	4496	0,153
3x150SM	41,3	5379	0,124
3x185SM	45,3	6771	0,0991
3x240SM	51,4	8766	0,0754
4x1RE	9,1	125	18,1
4x1,5RE	9,7	153	12,1
4x2,5RE	10,6	201	7,41
4x4RE	12,7	299	4,61
4x6RE	13,8	389	3,08
4x10RE	15,7	568	1,83
4x16RE	18,5	869	1,15
4x25RMC	23,8	1398	0,727
4x35RMC	26,4	1828	0,524
4x35SM	23,8	1569	0,524
4x50SM	27,3	2116	0,387
4x70SM	30,8	2928	0,268
4x95SM	35,7	4041	0,193
4x120SM	42,2	5744	0,153
4x150SM	47,0	6270	0,124
4x185SM	52,1	8700	0,0991
4x240SM	54,0	10029	0,0754

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Number and cross-sectional area of conductor	Approximate overall diameter	Approximate net weight of cables	Maximum conductor resistance at temperature 20°C
n x mm ²	mm	kg/km	Ω/km
3x25RMC+16RE	22,6	1287	0,727/1,15
3x35RMC+16RE	24,5	1620	0,524/1,15
3x35RMC+25RMC	25,7	1731	0,524/0,727
3x35SM+16RE	23,8	1375	0,524/1,15
3x50SM+25RMC	27,3	1895	0,387/0,727
3x70SM+35SM	29,6	2596	0,268/0,524
3x95SM+50SM	34,2	3560	0,193/0,387
3x120SM+70SM	37,1	4496	0,153/0,268
3x150SM+70SM	41,3	5379	0,124/0,268
3x185SM+95SM	45,3	6771	0,0991/0,193
3x240SM+120SM	51,4	8766	0,0754/0,153
5x1RE	9,8	150	18,1
5x1,5RE	10,5	184	12,1
5x2,5RE	11,5	244	7,41
5x4RE	13,8	365	4,61
5x6RE	15,1	478	3,08
5x10RE	17,3	703	1,83
5x16RE	20,3	1070	1,15
5x25RMC	26,2	1727	0,727
5x35RMC	29,2	2276	0,524
5x50SM	29,5	2630	0,387
5x70SM	33,4	3666	0,268
5x95SM	39,0	5050	0,193
5x120SM	42,4	6260	0,153
5x150SM	47,4	7722	0,124
5x185SM	52,3	9595	0,0991
5x240SM	58,7	12509	0,0754







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Current ratings*

Operating temperature at conductor 70°C; ambient air temperature 30°C, ground temperature 20°C

Installation						
Number of loaded cores	1	3	3	1	3	3
	laying in ground			laying in air		
Cross-section, mm ²	Current ratings in Ampere (A)					
1,5	41	27	30	27	19,5	21
2,5	55	36	39	35	25	28
4	71	47	50	47	34	37
6	90	59	62	59	43	47
10	124	79	83	81	59	64
16	160	102	107	107	79	84
25	208	133	138	144	106	114
35	250	159	164	176	129	139
50	296	188	195	214	157	169
70	365	232	238	270	199	213
95	438	280	286	334	246	264
120	501	318	325	389	285	307
150	563	359	365	446	326	352
185	639	406	413	516	374	406
240	746	473	479	618	445	483
300	848	-	541	717	-	557
400	975	-	614	843	-	646
500	1125	-	693	994	-	747

The values are referred to the following basic conditions:

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Laying in ground		Laying in air	
Ground temperature at installation depth:	20°C	Ambient temperature:	30°C
Load factor:	0,7	Load factor:	1,0
Soil-thermal resistivity of moist area:	1,0 k _m /W	Arrangement: free in air, protection against direct solar radiation, no external heat sources, unrestricted dissipation of heat.	
Soil-thermal resistivity of dry area:	2,5 k _m /W		
Laying depth:	0,7 m		

Correction factors for various ambient air temperatures

Ambient temperature, °C	10	15	20	25	30	35	40	45	50
Rating factor	1,22	1,17	1,12	1,06	1,00	0,94	0,87	0,79	0,71

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