

1-AYKY

PVC/PVC aluminium energy cables

DESIGN



- 1 | Aluminium conductor, round solid (RE), sector-shaped solid (SE), round stranded (RM), resp. sector-shaped stranded (SM)
- 2 | Core insulation (PVC)
- 3 | Inner covering (EPDM or plastic tape)
- 4 | Sheath (PVC black, UV-resistant)

APPLICATION

The cables are designed for distribution of electrical energy in fixed installation in the ground, cable ducts and in the outdoor environment.

TECHNICAL DATA



Standard:
TP PRAKAB 02/08



Rated voltage:
0.6/1 kV



Test voltage:
core / core 4 kV / 50 Hz



Temperature range:
laying temperature: min. -5 °C
operating temperature: -50 °C up to 70 °C
conductor temperature: max. 70 °C
short circuit temperature: max. 160 °C/5 s



Bending radius (min.):
12 x Ø up to 15 mm
15 x Ø over 15 mm



Core identification:
ČSN 33 0166 ed. 2



Fire properties:
ČSN EN 60332-1-2: self-extinguishing
CPR classification: E_{ca}



Certificate:
EZÚ Czech Republic

Number of cores x nominal cross-section (mm ²)	Max. conductor resistance (Ω/km)	Current rating in the earth (A)	Current rating in the air (A)	Outer diameter (mm) appr.	Total weight (kg/km) appr.	Standard lengths / packing
1-AYKY						
4 x 10 RE	3.08	63	45	17.4	375	1000 D
4 x 16 RE	1.91	81	61	19.7	580	1000 D
4 x 25 RE	1.2	102	81	22.4	750	1000 D
5 x 25 RE	1.2	71	57	24.4	880	1000 D
3 x 35 + 25 RE/RE	0.868/1.2	122	99	24.7	910	1000 D
4 x 35 RE	0.868	122	99	24.7	940	1000 D
5 x 35 RE	0.868	84	68	27.1	1110	1000 D
3 x 50 + 35 RE/RE	0.641/0.868	144	119	28.9	1220	1000 D
4 x 50 RE	0.641	144	119	28.9	1280	1000 D
4 x 50 SM	0.641	144	119	30.4	1090	1000 D
4 x 70 RE	0.443	179	152	32.2	1620	1000 D
3 x 70 + 50 RE/RE	0.443/0.641	179	152	32.2	1560	1000 D
3 x 70 + 50 SM/RE	0.443/0.641	179	152	33.6	1320	1000 D
4 x 70 RM	0.443	179	152	35.4	1820	1000 D
4 x 70 SM	0.443	179	152	33.6	1350	1000 D
3 x 95 + 70 SM/RM	0.32 /0.443	215	186	39.3	1750	1000 D

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1–AYKY						
4 x 95 SM	0.32	215	186	39.3	1840	1000 D
5 x 95 SM	0.32	151	131	40.8	2090	1000 D
3 x 120 + 70 SM/RE	0.253/0.443	245	216	43.0	2000	1000 D
3 x 120 + 70 SM/RM	0.253/0.443	245	216	43.0	2060	1000 D
4 x 120 SM	0.253	245	216	43.0	2230	1000 D
5 x 120 SM	0.253	171	151	44.1	2590	500 D
3 x 150 + 70 SM/RE	0.206/0.443	275	246	46.8	2420	500 D
3 x 150 + 70 SM/RM	0.206/0.443	275	246	46.8	2460	500 D
4 x 150 SM	0.206	275	246	46.8	2740	500 D
5 x 150 SM	0.206	193	173	49.9	3250	500 D
3 x 185 + 95 SM/RE	0.164/0.32	313	285	49.8	2950	500 D
3 x 185 + 95 SM/RM	0.164/0.32	313	285	49.8	3010	500 D
3 x 185 + 95 SM/SM	0.164/0.32	313	285	49.8	3000	500 D
4 x 185 SM	0.164	313	285	49.8	3370	500 D
5 x 185 SM	0.164	216	197	54.4	3950	500 D
3 x 240 + 120 SM/RE	0.125/0.253	364	338	56.4	3730	500 D
3 x 240 + 120 SM/RM	0.125/0.253	364	338	56.4	3810	500 D
4 x 240 SM	0.125	364	338	56.4	4220	500 D
5 x 240 SM	0.125	253	235	61.3	5160	500 D

Technical changes reserved. All figures are therefore without guarantee.