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ALUMINIUM 0.6/1 KV

1–AYKY

PVC/PVC aluminium energy cables

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
ČSN 34 7659–3P

Certificate
EZÚ Czech Republic

Test Voltage
core/core 4 kV / 50 Hz

Rated Voltage
0,6/1 kV

Bending radius (min.)
12 x for Ø of cable (multicore)

Fire properties
ČSN EN 60332–1–2: self–extinguishing
CPR Classification: Eca

Core identification
ČSN 33 0166 ed. 2

Temperature range
Laying temperature: min. –5°C
Operating temperature: –25°C up to 70°C
Conductor temperature: max. 70°C
Short circuit temperature: max. 160°C

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)

Number of cores x nominal cross-section (mm²)	Max. conductor resistance (Ω/km)	Current rating in the earth (A)	Current rating in the air (A)	Outer diameter appr. (mm)	Total weight appr. (kg/km)
4 x 10 RE	3.08	63	45	17.4	375
3 x 16 RE	1.91	81	61	18.0	485
4 x 16 RE	1.91	81	61	19.7	580
5 x 16 RE	1.91	56	46	21.6	655
4 x 25 RE	1.2	102	81	22.4	791
5 x 25 RE	1.2	71	57	24.4	880
3 x 35 + 25 RE/RE	0.868 / 1.2	122	99	24.7	910
4 x 35 RE	0.868	122	99	24.7	1008
4 x 35 RM	0.868	122	99	27.4	1074
5 x 35 RE	0.868	84	68	27.1	1110
3 x 50 + 35 RE/RE	0.641 / 0.868	144	119	28.9	1220
4 x 50 RE	0.641	144	119	30.4	1330
4 x 50 RM	0.641	144	119	28.9	1280
5 x 50 SM	0.641	99	82	29.5	1256
4 x 70 RE	0.443	179	152	33.6	1724
4 x 70 RM	0.443	179	152	35.7	1861
5 x 70 SM	0.443	126	107	34.9	1684
3 x 95 + 50 SM/RM	0.32 / 0.641	215	186	36.6	1633
3 x 95 + 70 SM/RM	0.32 / 0.443	215	186	39.3	1750
4 x 95 SM	0.32	215	186	36.4	1805
5 x 95 SM	0.32	151	131	38.6	2212
3 x 120 + 70 SM/RE	0.253 / 0.443	245	216	39.6	1954
3 x 120 + 70 SM/RM	0.253 / 0.443	245	216	39.6	1965
4 x 120 SM	0.253	245	216	40.1	2230
5 x 120 SM	0.253	171	151	43.4	2654
3 x 150 + 70 SM/RM	0.206 / 0.443	275	246	44.1	2322
3 x 150 + 95 SM/RM	0.206 / 0.32	275	246	44.1	2416
4 x 150 SM	0.206	275	246	44.1	2614
5 x 150 SM	0.206	193	173	48.4	3308
3 x 185 SM	0.164	313	285	41.6	2458
3 x 185 + 95 SM/RM	0.164 / 0.32	313	285	49.8	2980
3 x 185 + 95 SM/SM	0.164 / 0.32	313	285	44.4	2850
4 x 185 SM	0.164	313	285	49.8	3307
5 x 185 SM	0.164	216	197	54.4	4089
3 x 240 SM	0.125	364	338	47.2	3202
3 x 240 + 120 SM/RM	0.125 / 0.253	364	338	55.4	3723
3 x 240 + 120 SM/SM	0.125 / 0.253	364	338	52.4	3687
4 x 240 SM	0.125	364	338	56.4	4183
5 x 240 SM	0.125	253	235	64.8	5362

Technical changes reserved. All figures are therefore without guarantee.

EPD
INTERNATIONAL EPD SYSTEM



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