

MEDIUM VOLTAGE CABLES UP TO 36 kV

6-AYKCY

PVC/PVC aluminium underground medium
voltage cable, screened



TECHNICAL DATA



Standard
TP PRAKAB 03/08



Certificate
EZÚ Czech Republic



Test Voltage
15 kV / 50 Hz



Rated Voltage
3,6/6 kV



Bending radius (min.)
6 x Ø of cable up to 20 mm
12 x Ø of cable from 20 mm to 40 mm
15 x Ø of cable over 40 mm



Fire properties
ČSN EN 60332-1-2: self-extinguishing
OPR classification: Eca



Core identification
Natural cores colour



Temperature range
Laying temperature: min. -5°C
Operating temperature: -50°C up to 70°C
Conductor temperature: max. 70°C
Short circuit temperature: max. 140°C

DESIGN



1 Aluminium conductor, round stranded (RM), resp. sector-shaped stranded (SM)



2 Core insulation (PVC)



3 Inner covering (EPDM or plastic tape)



4 Inner sheath (PVC colorless)



5 Screen (copper tape or bare copper wires applied with changing direction of lay)



6 Inner covering (plastic tape)



7 Sheath (PVC black, UV-resistant)

Number of cores x nominal cross-section / cross-section of screen (mm ²)	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)
3 x 25 RE / 16	1.2	103	83	36.2	1826
1 x 35 RM / 16	0.868	193	135	24.0	740
3 x 35 RE / 16	0.868	123	101	38.3	2064
1 x 50 RM / 16	0.641	230	166	25.2	815
3 x 50 RE / 16	0.641	145	121	40.7	2355
1 x 70 RM / 16	0.443	283	210	26.8	921
3 x 70 SM / 16	0.443	180	155	41.4	1942
1 x 95 RM / 16	0.32	340	259	28.8	1080
3 x 95 SM / 16	0.32	216	189	45.0	2402
1 x 120 RM / 16	0.253	389	302	30.9	1231
3 x 120 SM / 16	0.253	246	220	47.4	2748
1 x 150 RM / 16	0.206	436	345	32.4	1356
3 x 150 SM / 25	0.206	276	249	51.6	3205
1 x 185 RM / 25	0.164	496	401	34.2	1720
3 x 185 SM / 25	0.164	313	287	54.3	3683
1 x 240 RM / 25	0.125	579	479	37.6	1930
3 x 240 SM / 25	0.125	362	339	58.3	4319
1 x 300 RM / 25	0.1	654	550	38.7	2069
1 x 400 RM / 35	0.078	756	653	43.2	2515
1 x 500 RM / 35	0.061	873	772	45.6	2870

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