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MEDIUM VOLTAGE CABLES 10 – 30 KV

# 6-AYKCY

## PVC/PVC aluminium underground medium voltage cable, screened

The cables are designed for fixed distribution of electricity in the ground or in the outdoor environment.

### 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
CPR 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. Outer sheath (PVC black, UV-resistant)

| Number of cores x nominal cross-section / cross-section of screen (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) |
|---|---|---|---|---|---|
| 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 |

Technical changes reserved. All figures are therefore without guarantee.

**CONTACT PERSON**

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