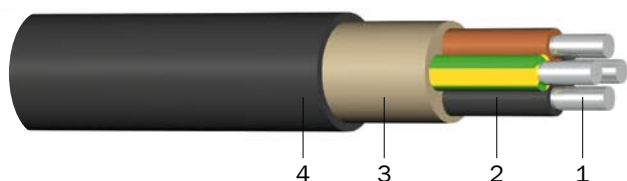


# 1-AYKY

**Underground cable with PVC insulation and PVC sheath**  
**Standard: TP PRAKAB 01/03**

## Usage:

Power distribution cables in power stations, industrial installations and switchgear, as well as in local mains. For fixed installation in interior premises, cable ducts, in the open air, in water – as permitted by the local building regulations – if no risk of any mechanical damage is to be expected.



## Construction:

- 1 Aluminium conductor, round solid (RE), 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)



**Rated voltage:** 0.6/1 kV



**Test voltage:** 4000 Veff



**Temperature range:**

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



**Bending radius (min.):** 15 x Ø of cable



**Core identification:** coloured (HD 308 S2)



**Fire properties:**

flame retardant (EN 50265-2-1, IEC 60332-1)



**Test certificate:**

EZÚ Czech Republic, EVPÚ Slovak Republic

Number of cores x nominal cross section (mm <sup>2</sup> )	Max. conductor resistance (Ω/km)	Current rating in the ground <sup>1)</sup> (A)	Current rating in the air <sup>1)</sup> (A)	Outer diameter (mm) ca.	Metal weight (kg/km)	Total weight (kg/km) ca.	Standard lengths/packing (m)
<b>1-AYKY</b>							
4 x 25 RE	1.238	103	78	22.4	300	750	1000 T
5 x 25 RE	1.238	103	78	24.4	375	880	1000 T
3 x 35 + 25 RE/RE	0.885/1.238	125	96	24.7	390	909	1000 T
4 x 35 RE	0.885	125	96	24.7	420	939	1000 T
5 x 35 RE	0.885	125	96	27.1	525	1,108	1000 T
3 x 50 + 35 RE/RE	0.641/0.885	147	117	28.9	505	1,219	1000 T
4 x 50 RE	0.641	147	117	28.9	600	1,275	1000 T
4 x 50 SM	0.641	147	117	30.4	600	1,089	1000 T
4 x 70 RE	0.443	183	150	32.2	840	1,618	1000 T
3 x 70 + 50 RE/RE	0.443/0.641	183	150	32.2	780	1,559	1000 T
3 x 70 + 50 SM/RM	0.443/0.641	183	150	33.6	780	1,314	1000 T
4 x 70 RM	0.443	183	150	35.4	840	1,814	1000 T
4 x 70 SM	0.443	183	150	33.6	840	1,345	1000 T
3 x 95 + 70 SM/RM	0.326/0.443	216	182	39.3	1,065	1,743	1000 T
4 x 95 SM	0.326	216	182	39.3	1,140	1,836	1000 T
3 x 120 + 70 SM/RE	0.258/0.443	245	212	40.6	1,290	2,000	1000 T
3 x 120 + 70 SM/RM	0.258/0.443	245	212	43.0	1,290	2,057	1000 T
4 x 120 SM	0.258	245	212	43.0	1,440	2,225	1000 T
3 x 150 + 70 SM/RE	0.206/0.443	278	245	45.6	1,560	2,415	500 T

**1-AYKY**

Number of cores x nominal cross section (mm <sup>2</sup> )	Max. conductor resistance (Ω/km)	Current rating in the ground <sup>1)</sup> (A)	Current rating in the air <sup>1)</sup> (A)	Outer diameter (mm) ca.	Metal weight (kg/km)	Total weight (kg/km) ca.	Standard lengths/packing (m)
<b>1-AYKY</b>							
3 x 150 + 70 SM/RM	0.206/0.443	278	245	46.8	1,560	2,457	500 T
4 x 150 SM	0.206	278	245	46.8	1,800	2,734	500 T
3 x 185 + 95 SM/RE	0.167/0.326	313	280	48.4	1,950	2,950	500 T
3 x 185 + 95 SM/RM	0.167/0.326	313	280	49.8	1,950	3,009	500 T
3 x 185 + 95 SM/SM	0.167/0.326	313	280	48.4	1,950	2,993	500 T
4 x 185 SM	0.167	313	280	49.8	2,220	3,364	500 T
3 x 240 + 120 SM/RE	0.129/0.258	359	330	54.8	2,520	3,728	500 T
3 x 240 + 120 SM/RM	0.129/0.258	359	330	56.4	2,520	3,804	500 T
4 x 240 SM	0.129	359	330	56.4	2,880	4,217	500 T

1) basic rated current acc. to TP PRAKAB 01/03

Subject to technical changes.