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# АПвКВ 5х35 (ож)-1 ТУ У 31.3-00214534-016-2003

Power cables with aluminium conductors, XLPE-insulated, galvanized steel-wire armoured, with PVC-compound outer sheath

Cables are used for laying:

- · single laying
- · in premises, dry ducts and tunnels, in corrosive environment
- in places, where intense tensile forces are possible (in cable lifting, in bulk, heaving, boggy, everfrost soils)

Manufacturing of cables with a different number and different design of conductors is possible Manufacturing of single-phase cables with aluminium-wire armour is possible

Fire safety code in accordance with ДСТУ 4809:2007: ΠБ100000000

Products of this mark meet the requirements:

· single wire cable flame retardance

## **TECHNICAL SPECIFICATIONS**

Rated voltage	kV	1
Number and rated area of conductors	mm²	5 x 35
Phase insulation thikness	mm	0.9
Armor wire diameter	mm	1.8
Permissible continious current rating (AC of industrial frequency	r) *	
• by aerial laying	Α	124
• by burial	Α	125
Maximum permissible conductor temperature		
Continious	°C	+90
• at short circuit	°C	+250
Operating temperature range	°C	-50 +50
Minimum bending radius by laying	mm	272
Rated outer diameter of the cable (for reference) **	mm	34
Cable weight (approximate)	kg/km	2070
Rated factory cable length and gross weight of the delivery	m, t	# 14: 540 · 1.3
on the drums ***		# 16a: 870 • 2.1
		# 18: 1000 • 2.5

#### Notes:

When ordering it is neccesary to agree the factory length of the product with the manufacturer

<sup>\*</sup> Long permissible current loads are calculated for the following conditions: air temperature plus 25 °C, soil temperature plus 15 °C, thermal resistivity of soil 1.2 °K • m/W, laying depth in the soil 0.7 m

<sup>\*\*</sup> The external diameter may differ from the rated up to  $\pm$  10 %



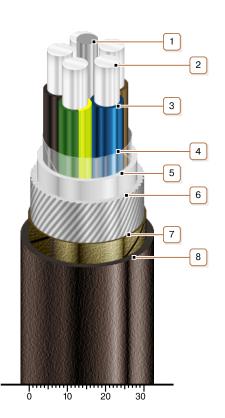




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## CONSTRUCTION

- 1. PVC compound bundle
- 2. Aluminium conductor
- 3. XLPE insulation
- 4. PET film winding
- 5. PVC compound belt insulation

6. Round galvanized steel-wire armour Note: Manufacturing of single-phase cables with aluminium-wire armour is possible

- 7. Lapping layer of nonwoven cloth tape
- 8. PVC compound outer sheath

Note: Conductor twisting is not illustrated