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# АВБбШнгд 3х240 (ож)-1 ТУ У 31.3-00214534-018-2003

Power cables with aluminium conductors, with low-flammable PVC-compound insulation, galvanized steel-tape armoured, with PVC-compound protection hose

Cables are used for laying:

- in bunches
- · in premises, dry ducts and tunnels, in corrosive environment
- in places, where small mechanical impacts on cable are possible, including tensile forces
- in bunches, in crowded places

Manufacturing of cable with multiwire conductors is possible

Fire safety code in accordance with ДСТУ 4809:2007: ПБ123121000

Products of this mark meet the requirements:

• single wire cable flame retardance

bunched cable flame retardance category A

• toxicity class Tk3 of the combustion products of nonmetallic elements (toxicity index over  $120 \text{ g/m}^3$ )

• class  $\protect\ensuremath{\mathcal{I}}\ensuremath{\kappa}\ensuremath{1}$  on smoke-forming ability by smouldering of non-metallic elements (coefficient of smoke formation from 50 to 500 m<sup>2</sup>/kg)

• class ДΠκ2 on smoke-forming ability by combustion (minimum luminous flux more than 60 %)

• corrosive class K $\kappa$ 1 of combustion products of non-metallic elements (the number of halogen hydrides less than 150 mg/g, pH less than 4.3, specific conductivity more than 10  $\mu$ S/mm)

## **TECHNICAL SPECIFICATIONS**

Rated voltage	kV	1
Number and rated area of conductors	mm²	3 x 240
Phase insulation thikness	mm	2.2
Permissible continious current rating (AC of industrial frequenc	y) *	
• by aerial laying	А	359
• by burial	А	363
Maximum permissible conductor temperature		
Continious	°C	+70
in emergency operation	°C	+80
at short circuit	°C	+130
Operating temperature range	°C	-50 +50
Minimum bending radius by laying	mm	375
Rated outer diameter of the cable (for reference) **	mm	50
Cable weight (approximate)	kg/km	4000
Rated factory cable length and gross weight of the delivery	m, t	# 18: 460 • 2.3
on the drums ***		# 20: 740 • 3.6
Notes:		

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

\* 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  $\cdot$  m/W, laying depth in the soil 0.7 m

 $^{**}$  The external diameter may differ from the rated up to  $\pm$  10 %



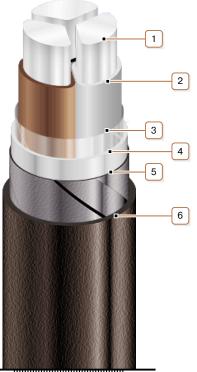


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#### **CONSTRUCTION**

- 1. Aluminium conductor
- 2. Low fire-risk PVC compound insulation
- 3. PET film winding
- 4. Low fire-risk PVC-compound inner sheath
- 5. Double galvanized steel-tape armour
- 6. Pressed off low fire-risk PVC compound protection hose

Note: Conductor twisting is not illustrated

0 10 20 30 40