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## АВВГнгд 3х50 (ож)-1 ТУ У 31.3-00214534-018-2003

Power cables with aluminium conductors, with low fire-risk PVC-compound insulation, with low fire-risk PVC-compound outer sheath

Cables are used for laying:

- · in bunches
- · in premises, dry ducts and tunnels, in corrosive environment
- in bunches, in crowded places

Manufacturing of cable with multiwire conductors is possible

Fire safety code in accordance with ДСТУ 4809:2007: ΠБ123121000

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 g/m³)
- class  $\mu$ TK1 on smoke-forming ability by smouldering of non-metallic elements (coefficient of smoke formation from 50 to 500 m²/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 50
Phase insulation thikness	mm	1.4
Permissible continious current rating (AC of industrial frequency)	*	
by aerial laying	Α	126
• by burial	Α	143
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	225
Rated outer diameter of the cable (for reference) **	mm	30
Cable weight (approximate)	kg/km	1230
Rated factory cable length and gross weight of the delivery	m, t	# 14: 700 • 1.0
on the drums ***		# 16a: 1120 · 1.6
Notes		

#### 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 %



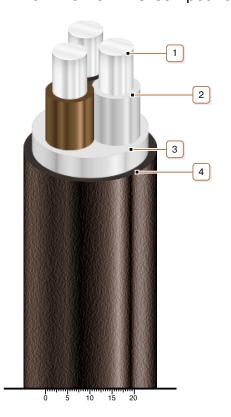




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## **CONSTRUCTION**

- 1. Aluminium conductor
- 2. Low fire-risk PVC compound insulation
- 3. Low fire-risk PVC-compound inner sheath
- 4. Low fire-risk PVC compound outer sheath

Note: Conductor twisting is not illustrated