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АВВГнгд 4x50-1 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]T\kappa 1$ on smoke-forming ability by smouldering of non-metallic elements (coefficient of smoke formation from 50 to 500 m²/kg)

• class ДПк2 on smoke-forming ability by combustion (minimum luminous flux more than 60 %)

· corrosive class Kk1 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 µS/mm)

TECHNICAL SPECIFICATIONS

Rated voltage	kV	1
Number and rated area of conductors	mm²	4 x 50
Phase insulation thikness	mm	1.4
Permissible continious current rating (AC of industrial frequency	y) *	
• by aerial laying	А	117
• by burial	А	132
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	232.5
Rated outer diameter of the cable (for reference) **	mm	31
Cable weight (approximate)	kg/km	1350
Rated factory cable length and gross weight of the delivery	m, t	# 14: 610 • 1.0
on the drums ***		# 16a: 990 • 1.6
Notes:		

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

* Long permissible current loads are calculated during operation in four-wire networks with load in all the conductors 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 ± 10 %



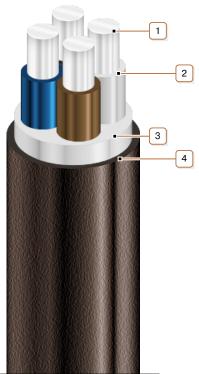


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CONSTRUCTION

- 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

0 5 10 15 20