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# ВБбШнгд 4х1.5-1 ТУ У 31.3-00214534-018-2003

Power cables with copper 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

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  $\Pi T \kappa 1$  on smoke-forming ability by smouldering of non-metallic elements (coefficient of smoke formation from 50 to 500 m<sup>2</sup>/kg)
- class ДПк2 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	4 x 1.5
Phase insulation thikness	mm	0.8
Permissible continious current rating (AC of industrial frequency) *		
• by aerial laying	Α	19
• by burial	Α	25
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	120
Rated outer diameter of the cable (for reference) **	mm	16
Cable weight (approximate)	kg/km	420
Rated factory cable length and gross weight of the delivery	m, t	# 12: 1280 • 0.7
on the drums ***		

#### 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 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·m/W, laying depth in the soil 0.7 m

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



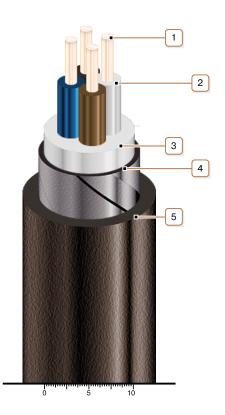




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# ВБбШнгд 4x1.5-1 ТУ У 31.3-00214534-018-2003

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### **CONSTRUCTION**

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

Note: Conductor twisting is not illustrated