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# АПВБбШв 1х50-1 ГОСТ 16442-80,ТУ У 31.3-00214534-048:2007

Power cables with aluminium conductors, XLPE-insulated, galvanized steel-tape armoured, with PVC-compound protection hose

Cables are used for laying:

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

Manufacturing of non-galvanized armoured cable, covered with a layer of bitumen and PET film 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	1 x 50
Phase insulation thikness	mm	1
Permissible continious current rating (AC of industrial frequency	y) *	
• by aerial laying	Α	171
• by burial	Α	161
Permissible continious current rating (DC) *		
• by aerial laying	Α	217
• by burial	Α	251
Maximum permissible conductor temperature		
Continious	°C	+90
in emergency operation	°C	+130
• at short circuit	°C	+250
Operating temperature range	°C	-50 +50
Minimum bending radius by laying	mm	190
Rated outer diameter of the cable (for reference) **	mm	19
Cable weight (approximate)	kg/km	530
Rated factory cable length and gross weight of the delivery on the drums ***	m, t	# 12: 910 • 0.6

#### 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  $\cdot$  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 multiwire compacted conductor
- 2. XLPE insulation
- 3. PVC compound belt insulation
- 4. Double galvanized steel-tape armour
- 5. Pressed PVC compound protection hose