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# ПвБбШв 3х50-1 ГОСТ 16442-80,ТУ У 31.3-00214534-048:2007

Power cables with copper 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 cable with multiwire conductors is possible

Manufacturing of non-galvanized armoured cable, covered with a layer of bitumen and PET film is possible Manufacturing of cable with tape belt insulation 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	3 x 50
Phase insulation thikness	mm	1
Permissible continious current rating (AC of industrial frequency	/) *	
• by aerial laying	Α	209
• by burial	Α	205
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	225
Rated outer diameter of the cable (for reference) **	mm	30
Cable weight (approximate)	kg/km	1860
Rated factory cable length and gross weight of the delivery	m, t	# 14: 700 • 1.5
on the drums ***		# 16a: 1120 • 2.3

#### 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. Copper conductor
- 2. XLPE insulation
- 3. PVC compound belt insulation
- 4. Double galvanized steel-tape armour
- 5. Pressed PVC compound protection hose

Note: Conductor twisting is not illustrated