

## ПВББШВ 1x500-1 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 non-galvanized armoured cable, covered with a layer of bitumen and PET film is possible

Manufacturing of cable with PVC compound belt insulation is possible

Fire safety code in accordance with ДСТУ 4809:2007: ПБ1000000000

Products of this mark meet the requirements:

- *single wire cable flame retardance*

### TECHNICAL SPECIFICATIONS

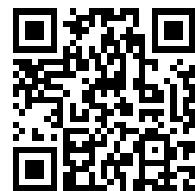
Rated voltage	kV	1
Number and rated area of conductors	mm <sup>2</sup>	1 x 500
Phase insulation thickness	mm	2.2
Permissible continuous current rating (AC of industrial frequency) *		
• <i>by aerial laying</i>	A	997
• <i>by burial</i>	A	746
Permissible continuous current rating (DC) *		
• <i>by aerial laying</i>	A	1328
• <i>by burial</i>	A	1223
Maximum permissible conductor temperature		
• <i>Continuous</i>	°C	+90
• <i>in emergency operation</i>	°C	+130
• <i>at short circuit</i>	°C	+250
Operating temperature range	°C	-50 ... +50
Minimum bending radius by laying	mm	410
Rated outer diameter of the cable (for reference) **	mm	41
Cable weight (approximate)	kg/km	5430
Rated factory cable length and gross weight of the delivery on the drums ***	m, t	# 18: 660 • 4.0 # 20: 1050 • 6.3

Notes:

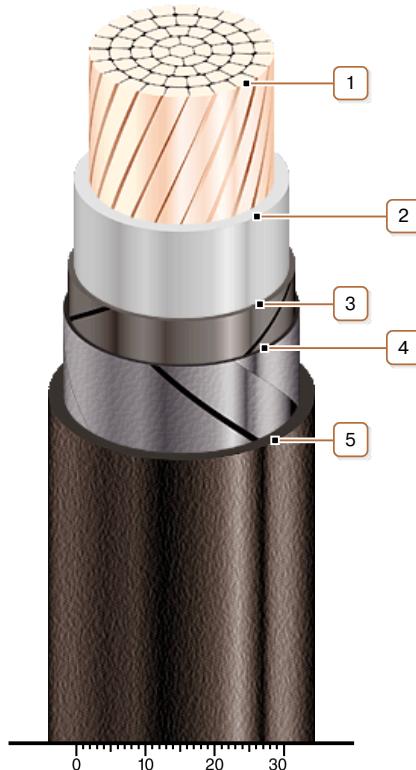
*When ordering it is necessary to agree the factory length of the product with the manufacturer*

*\* 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*

*\*\* The external diameter may differ from the rated up to ± 10 %*

**ПвБбШв 1x500-1  
ТУ У 31.3-00214534-048:2007**

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

**CONSTRUCTION**

---

1. Copper multiwire compact conductor
2. XLPE insulation
3. Tape core wrapping
4. Double galvanized steel-tape armour
5. Pressed PVC compound protection hose

---