



ВБШнг 1х500-3 ТУ У 31.3-00214534-018-2003

Power cables with copper conductors, with PVC-compound insulation, galvanized steel-tape armoured, with low-flammable 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*

Fire safety code in accordance with ДСТУ 4809:2007: ПБ120000000

Products of this mark meet the requirements:

- *single wire cable flame retardance*
- *bunched cable flame retardance category A*

TECHNICAL SPECIFICATIONS

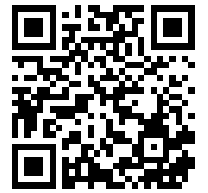
Rated voltage	kV	3
Number and rated area of conductors	mm ²	1 x 500
Phase insulation thickness	mm	2.8
Permissible continuous current rating (AC of industrial frequency) *		
• <i>by aerial laying</i>	A	792
• <i>by burial</i>	A	690
Permissible continuous current rating (DC) *		
• <i>by aerial laying</i>	A	1054
• <i>by burial</i>	A	1121
Maximum permissible conductor temperature		
• <i>Continuous</i>	°C	+70
• <i>in emergency operation</i>	°C	+90
• <i>at short circuit</i>	°C	+140
Operating temperature range	°C	-50 ... +50
Minimum bending radius by laying	mm	430
Rated outer diameter of the cable (for reference) **	mm	43
Cable weight (approximate)	kg/km	6000
Rated factory cable length and gross weight of the delivery on the drums ***	m, t	# 18: 600 • 4.1 # 20: 960 • 6.4

Notes:

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

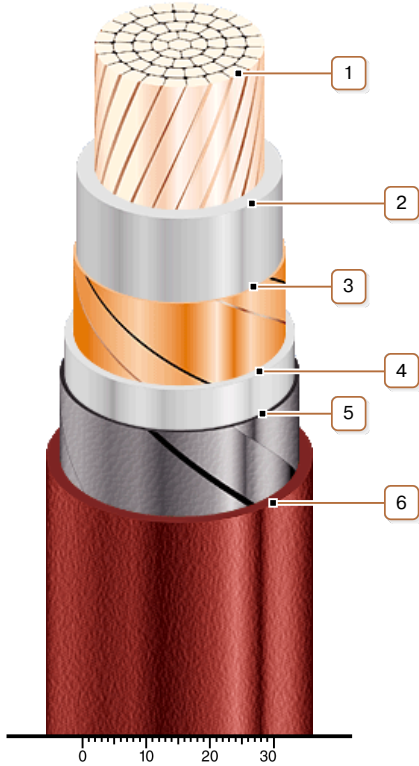
* Long permissible current loads are calculated for the following conditions: air temperature plus 25 °C, soil temperature plus 15 °C, thermal resistivity of soil 1.2 °K·m/W, laying depth in the soil 0.7 m

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



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CONSTRUCTION

1. Copper multiwire compact conductor
2. PVC compound insulation
3. Copper screen
4. PVC compound belt insulation
5. Double galvanized steel-tape armour
6. Pressed off low-flammable PVC compound protection hose