

ВБШв 4x50-1 ТУ У 31.3-00214534-048:2007

Power cables with copper conductors, with PVC-compound insulation, 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: ПБ100000000

Products of this mark meet the requirements:

- *single wire cable flame retardance*

TECHNICAL SPECIFICATIONS

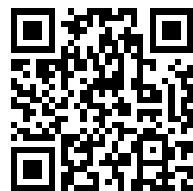
Rated voltage	kV	1
Number and rated area of conductors	mm ²	4 x 50
Phase insulation thickness	mm	1.4
Permissible continuous current rating (AC of industrial frequency) *		
• <i>by aerial laying</i>	A	155
• <i>by burial</i>	A	173
Maximum permissible conductor temperature		
• <i>continuous</i>	°C	+70
• <i>in emergency operation</i>	°C	+90
• <i>at short circuit</i>	°C	+160
Operating temperature range	°C	-50 ... +50
Minimum bending radius by laying	mm	247.5
Rated outer diameter of the cable (for reference) **	mm	33
Cable weight (approximate)	kg/km	2610
Rated factory cable length and gross weight of the delivery on the drums ***	m, t	# 14: 540 • 1.6 # 16a: 870 • 2.5 # 18: 1000 • 3.1

Notes:

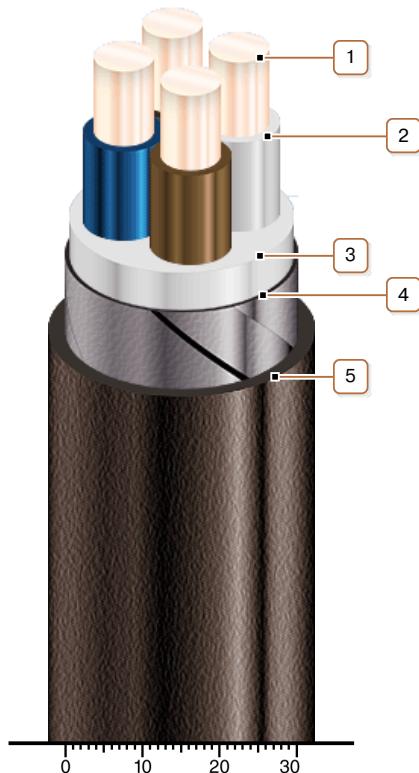
When ordering it is necessary to agree the factory length of the product with the manufacturer

** 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*

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

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**CONSTRUCTION**

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

Note: Conductor twisting is not illustrated