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## ВЗКВ 4x50-1 ТУ У 31.3-00214534-016-2003

Power cables with copper conductors, with PVC compound insulation, with filling of intermediate spaces between the conductors, round-steel-wire armoured, with PVC compound outer sheath

Cables are used for laying:

- single laying
- in premises, dry ducts and tunnels, in corrosive environment
- in places, where intense tensile forces are possible (in cable lifting, in bulk, heaving, boggy, everfrost soils)

Manufacturing of cables with a different number and different design of conductors is possible Manufacturing of single-phase cables with aluminium-wire armour 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	mm²	4 x 50
Phase insulation thikness	mm	1.4
Armor wire diameter	mm	2.2
Permissible continious current rating (AC of industrial frequency) *		
by aerial laying	Α	155
• by burial	Α	173
Maximum permissible conductor temperature		
Continious	°C	+70
• at short circuit	°C	+160
Operating temperature range	°C	-50 +50
Minimum bending radius by laying	mm	228
Rated outer diameter of the cable (for reference) **	mm	38
Cable weight (approximate)	kg/km	4080
Rated factory cable length and gross weight of the delivery	m, t	# 16a: 700 • 3.1
on the drums ***		# 18: 800 • 3.7

#### 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 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

<sup>\*\*</sup> The external diameter may differ from the rated up to  $\pm$  10 %



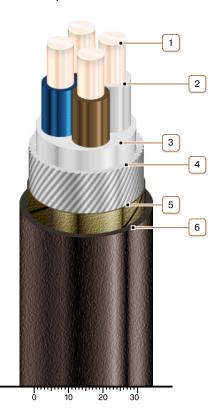




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### **CONSTRUCTION**

- 1. Copper conductor
- 2. PVC compound insulation
- 3. PVC compound belt insulation
- **4. Round galvanized steel-wire armour**Note: Manufacturing of single-phase cables with aluminium-wire armour is possible
- 5. Lapping layer of nonwoven cloth tape
- 6. PVC compound outer sheath

Note: Conductor twisting is not illustrated