

## ВЗКВнг 3х50-1 TY Y 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 low-flammable PVC compound outer sheath

Cables are used for laying:

- *in bunches*
- *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: ПБ1300000000

Products of this mark meet the requirements:

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

### TECHNICAL SPECIFICATIONS

Rated voltage	kV	1
Number and rated area of conductors	mm <sup>2</sup>	3 x 50
Phase insulation thickness	mm	1.4
Armor wire diameter	mm	1.8
Permissible continuous current rating (AC of industrial frequency) *		
• <i>by aerial laying</i>	A	167
• <i>by burial</i>	A	187
Maximum permissible conductor temperature		
• <i>Continuous</i>	°C	+70
• <i>at short circuit</i>	°C	+160
Operating temperature range	°C	-50 ... +50
Minimum bending radius by laying	mm	204
Rated outer diameter of the cable (for reference) **	mm	34
Cable weight (approximate)	kg/km	3070
Rated factory cable length and gross weight of the delivery on the drums ***	m, t	# 14: 540 • 1.8 # 16a: 870 • 2.9 # 18: 1000 • 3.5

Notes:

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

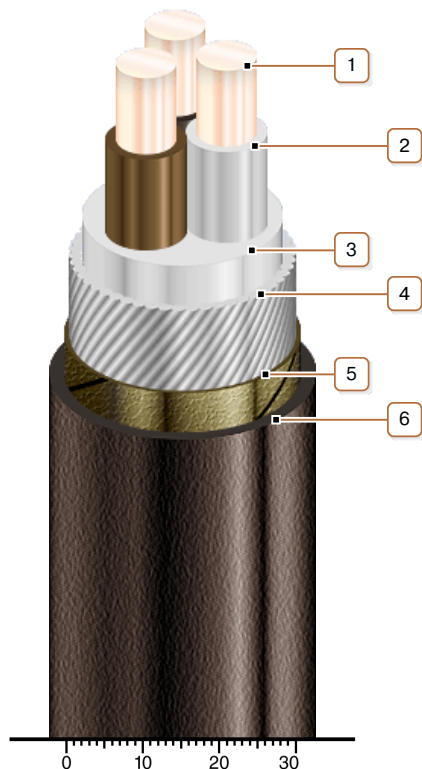
\* Long permissible current loads are calculated for the following conditions: air temperature plus 25 °C, soil temperature plus 15 °C, thermal resistivity of soil 1.2 °K·m/W, laying depth in the soil 0.7 m

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



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### **CONSTRUCTION**

1. Copper 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. Low flammable PVC compound outer sheath

*Note: Conductor twisting is not illustrated*