

## ВЗКВнг 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 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: ПБ130000000

Products of this mark meet the requirements:

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

### TECHNICAL SPECIFICATIONS

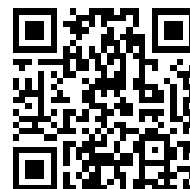
|                                                                          |                 |                  |
|--------------------------------------------------------------------------|-----------------|------------------|
| Rated voltage                                                            | kV              | 1                |
| Number and rated area of conductors                                      | mm <sup>2</sup> | 4 x 50           |
| Phase insulation thickness                                               | mm              | 1.4              |
| Armor wire diameter                                                      | mm              | 2.2              |
| 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>at short circuit</i>                                                | °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 on the drums | m, t            | # 16a: 700 • 3.1 |
|                                                                          |                 | # 18: 800 • 3.7  |

Notes:

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

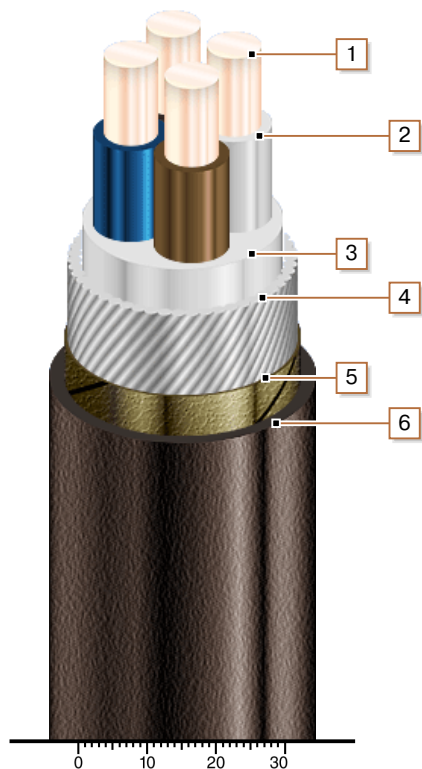
*\* Long permissible current loads are calculated during operation in four-wire networks with load in all the conductors for the following conditions: air temperature plus 25 °C, soil temperature plus 15 °C, thermal resistivity of soil 1.2 °K·m/W, laying depth in the soil 0.7 m*

*\*\* 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. Round galvanized steel-wire armour
5. Lapping layer of nonwoven cloth tape
6. Low flammable PVC compound outer sheath

*Note: conductor twisting is not illustrated*