

## **АВЗКВнг 4x50 (ож)-1** **ТУ У 31.3-00214534-016-2003**

Power cables with aluminium 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**

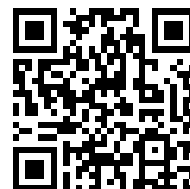
|                                                                              |                 |                                     |
|------------------------------------------------------------------------------|-----------------|-------------------------------------|
| Rated voltage                                                                | 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               | 117                                 |
| • <i>by burial</i>                                                           | A               | 132                                 |
| 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              | 304                                 |
| Rated outer diameter of the cable (for reference) **                         | mm              | 38                                  |
| Cable weight (approximate)                                                   | kg/km           | 2970                                |
| Rated factory cable length and gross weight of the delivery on the drums *** | m, t            | # 16a: 700 • 2.3<br># 18: 800 • 2.8 |

Notes:

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

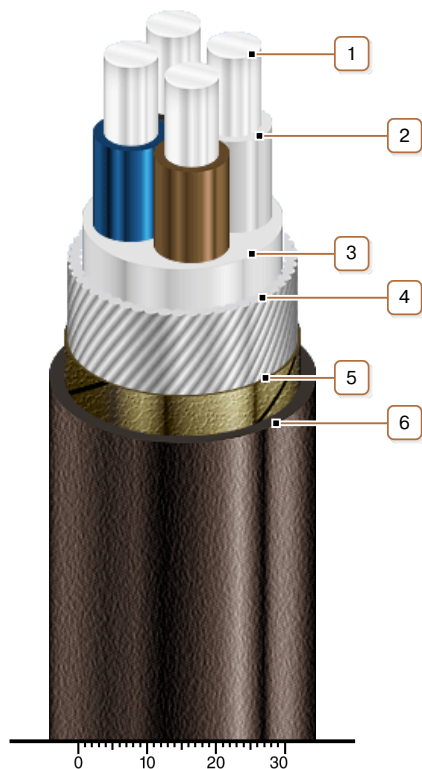
*\* Long permissible current loads are calculated during operation in four-wire networks with load in all the conductors for the following conditions: air temperature plus 25 °C, soil temperature plus 15 °C, thermal resistivity of soil 1.2 °K·m/W, laying depth in the soil 0.7 m*

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



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### CONSTRUCTION

1. Aluminium 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*