

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

Power cables with aluminium conductors, XLPE-insulated, galvanized 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

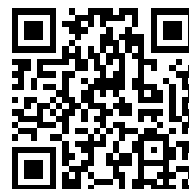
|  |                 |                                     |
|--|-----------------|-------------------------------------|
| Rated voltage  | kV              | 1                                   |
| Number and rated area of conductors  | mm <sup>2</sup> | 4 x 50                              |
| Phase insulation thickness   | mm              | 1                                   |
| Armor wire diameter  | mm              | 2.2                                 |
| Permissible continuous current rating (AC of industrial frequency) *         |                 |                                     |
| • <i>by aerial laying</i>  | A               | 146                                 |
| • <i>by burial</i>   | A               | 146                                 |
| Maximum permissible conductor temperature                                    |                 |                                     |
| • <i>Continuous</i>  | °C              | +90                                 |
| • <i>at short circuit</i>  | °C              | +250                                |
| 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           | 2620                                |
| Rated factory cable length and gross weight of the delivery on the drums *** | m, t            | # 16a: 700 • 2.1<br># 18: 800 • 2.6 |

Notes:

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

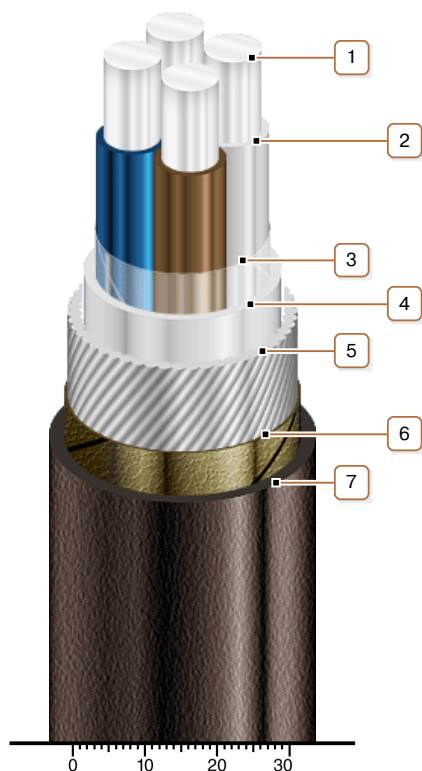
\* Long permissible current loads are calculated during operation in four-wire networks with load in all the conductors for the following conditions: air temperature plus 25 °C, soil temperature plus 15 °C, thermal resistivity of soil 1.2 °K·m/W, laying depth in the soil 0.7 m

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



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### **CONSTRUCTION**

1. Aluminium conductor
2. XLPE insulation
3. PET film winding
4. PVC compound belt insulation
5. Round galvanized steel-wire armour
6. Lapping layer of nonwoven cloth tape
7. PVC compound outer sheath

*Note: Manufacturing of single-phase cables with aluminium-wire armour is possible*

*Note: Conductor twisting is not illustrated*