



## ВВГнг-К 4x50/25-1 ТУ У 31.3-00214534-048:2007

Power cables with copper conductors, with PVC compound insulation, with concentric conductor, with low-flammable PVC-compound protection hose

Cables are used for laying:

- *in bunches*
- *in premises, dry ducts and tunnels, in corrosive environment*
- *in locations, where a high level of electrical protection is required*

It is possible to manufacture armoured cable

Fire safety code in accordance with ДСТУ 4809:2007: ПБ120000000

Products of this mark meet the requirements:

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

### TECHNICAL SPECIFICATIONS

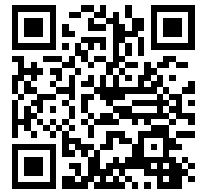
|  |                 |                                     |
|--|-----------------|-------------------------------------|
| Rated voltage  | kV              | 1                                   |
| Number and rated area of conductors  | mm <sup>2</sup> | 4 x 50                              |
| Nominal cross-section area of concentric conductor                           | mm <sup>2</sup> | 25                                  |
| Phase insulation thickness   | mm              | 1.4                                 |
| 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              | 285                                 |
| Rated outer diameter of the cable (for reference) **                         | mm              | 38                                  |
| Cable weight (approximate)   | kg/km           | 3180                                |
| Rated factory cable length and gross weight of the delivery on the drums *** | m, t            | # 16a: 700 • 2.5<br># 18: 800 • 3.0 |

Notes:

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

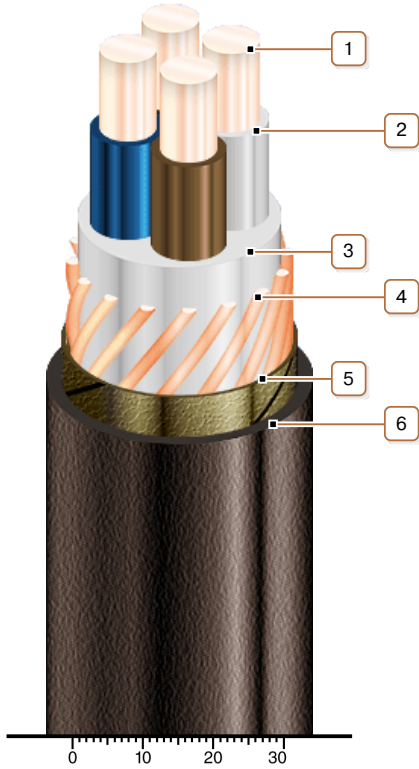
*\* Long permissible current loads are calculated during operation in four-wire networks with load in all the conductors for the following conditions: air temperature plus 25 °C, soil temperature plus 15 °C, thermal resistivity of soil 1.2 °K · m/W, laying depth in the soil 0.7 m*

*\*\* 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. *Concentric copper conductor*
5. *Lapping layer of nonwoven cloth tape*
6. *Low flammable PVC compound outer sheath*

*Note: Conductor twisting is not illustrated*