

## ВВГнг-К 3x10/10-1 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

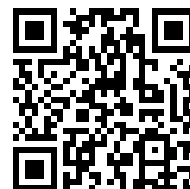
|                                                                          |                 |                  |
|--------------------------------------------------------------------------|-----------------|------------------|
| Rated voltage                                                            | kV              | 1                |
| Number and rated area of conductors                                      | mm <sup>2</sup> | 3 x 10           |
| Nominal cross-section area of concentric conductor                       | mm <sup>2</sup> | 10               |
| Phase insulation thickness                                               | mm              | 1                |
| Permissible continuous current rating (AC of industrial frequency) *     |                 |                  |
| • <i>by aerial laying</i>                                                | A               | 63               |
| • <i>by burial</i>                                                       | A               | 79               |
| 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              | 165              |
| Rated outer diameter of the cable (for reference) **                     | mm              | 22               |
| Cable weight (approximate)                                               | kg/km           | 760              |
| Rated factory cable length and gross weight of the delivery on the drums | m, t            | # 14: 1300 • 1.2 |

Notes:

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

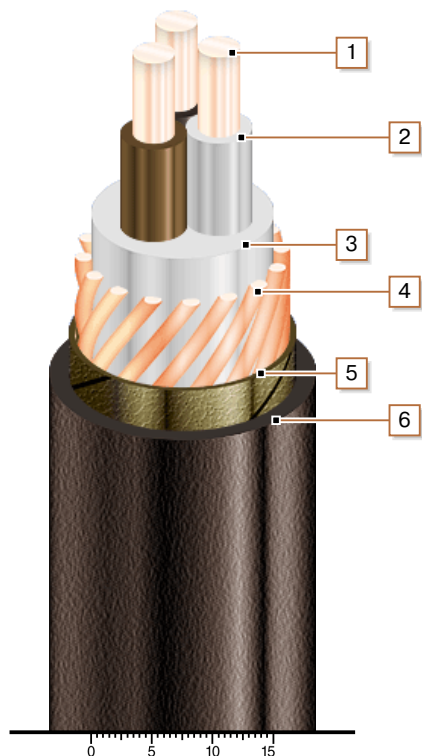
\* Long permissible current loads are calculated for the following conditions: air temperature plus 25 °C, soil temperature plus 15 °C, thermal resistivity of soil 1.2 °K·m/W, laying depth in the soil 0.7 m

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

*Note: conductor twisting is not illustrated*