



## ВКбШвнг 3х4+1х2.5-1 ТУ У 31.3-00214534-057:2007

Power cables with copper conductors, with PVC-compound insulation, galvanized steel-wire armoured, with low-flammable PVC-compound protection hose

Cables are used for laying:

- *in bunches*
- *in premises, dry ducts and tunnels, in corrosive environment*
- *in places, where small mechanical impacts on cable are possible, including tensile forces*

It is possible manufacturing of cables in cold-resistant performance (ВКбШвнг-ХЛ)

It is possible manufacturing of cables of low fire risk (ВКбШнгд), including fire-resistant (ВКбШнгд-FR) and cold-resistant (ВКбШнгд-ХЛ)

It is possible manufacturing of cables with polymer compound sheath, halogen-free (ВКбПнг-НФ), including fire-resistant (ВКбПнг-FRHF)

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 4 + 1 x 2.5  |
| Phase insulation thickness                                               | mm              | 1                |
| Aarmor wire diameter                                                     | mm              | 0.3              |
| Permissible continious current rating (AC of industrial frequency) *     |                 |                  |
| • <i>by aerial laying</i>                                                | A               | 36               |
| • <i>by burial</i>                                                       | A               | 47               |
| Maximum permissible conductor temperature                                |                 |                  |
| • <i>Continuous</i>                                                      | °C              | +70              |
| • <i>in emergency operation</i>                                          | °C              | +80              |
| • <i>at short circuit</i>                                                | °C              | +160             |
| Operating temperature range                                              | °C              | -40 ... +50      |
| Minimum bending radius by laying                                         | mm              | 120              |
| Rated outer diameter of the cable (for reference) **                     | mm              | 16               |
| Cable weight (approximate)                                               | kg/km           | 410              |
| Rated factory cable length and gross weight of the delivery on the drums | m, t            | # 12: 1280 • 0.6 |

Notes:

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

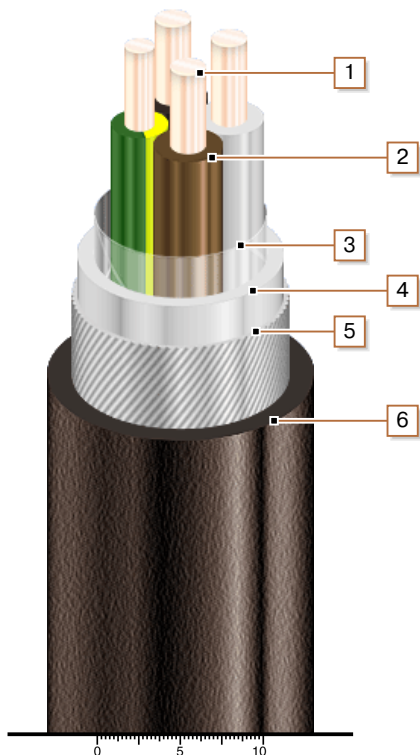
\* Long permissible current loads are calculated for the following conditions: air temperature plus 25 °C, soil temperature plus 15 °C, thermal resistivity of soil 1.2 °K·m/W, laying depth in the soil 0.7 m

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



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### **CONSTRUCTION**

1. Copper conductor
2. PVC compound insulation
3. PET film winding
4. PVC compound belt insulation
5. Round galvanized steel-wire armour
6. Pressed off low-flammable PVC compound protection hose

*Note: conductor twisting is not illustrated*