

## ВБШнг 1х300-1 ТУ У 31.3-00214534-018-2003

Power cables with copper conductors, with PVC-compound insulation, galvanized steel-tape 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*

Manufacturing of cable with PVC compound belt insulation is possible

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> | 1 x 300                             |
| Phase insulation thickness                                                   | mm              | 2.4                                 |
| Permissible continuous current rating (AC of industrial frequency) *         |                 |                                     |
| • <i>by aerial laying</i>                                                    | A               | 591                                 |
| • <i>by burial</i>                                                           | A               | 539                                 |
| Permissible continuous current rating (DC) *                                 |                 |                                     |
| • <i>by aerial laying</i>                                                    | A               | 760                                 |
| • <i>by burial</i>                                                           | A               | 845                                 |
| Maximum permissible conductor temperature                                    |                 |                                     |
| • <i>Continuous</i>                                                          | °C              | +70                                 |
| • <i>in emergency operation</i>                                              | °C              | +90                                 |
| • <i>at short circuit</i>                                                    | °C              | +160                                |
| Operating temperature range                                                  | °C              | -50 ... +50                         |
| Minimum bending radius by laying                                             | mm              | 350                                 |
| Rated outer diameter of the cable (for reference) **                         | mm              | 35                                  |
| Cable weight (approximate)                                                   | kg/km           | 3590                                |
| Rated factory cable length and gross weight of the delivery on the drums *** | m, t            | # 16a: 780 • 3.1<br># 18: 890 • 3.7 |

Notes:

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

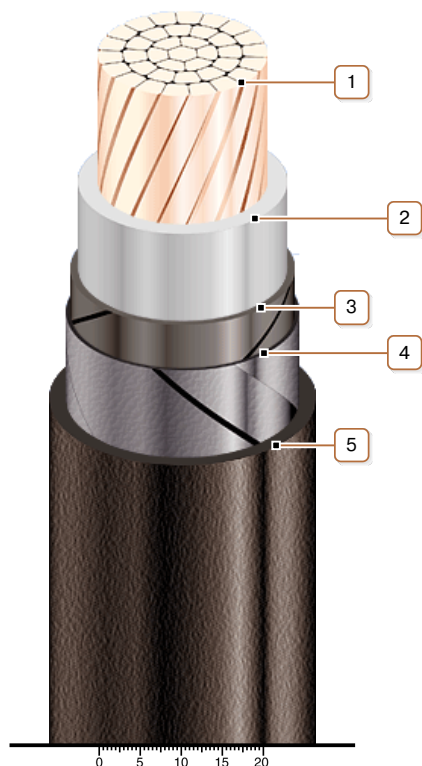
\* Long permissible current loads are calculated for the following conditions: air temperature plus 25 °C, soil temperature plus 15 °C, thermal resistivity of soil 1.2 °K·m/W, laying depth in the soil 0.7 m

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



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### **CONSTRUCTION**

1. *Copper multiwire compact conductor*
2. *PVC compound insulation*
3. *Tape core wrapping*
4. *Double galvanized steel-tape armour*
5. *Pressed off low-flammable PVC compound protection hose*