

## АВБШВ 1x400-1 TY Y 31.3-00214534-048:2007

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

Cables are used for laying:

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

Manufacturing of non-galvanized armoured cable, covered with a layer of bitumen and PET film is possible  
 Manufacturing of cable with PVC compound belt insulation 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

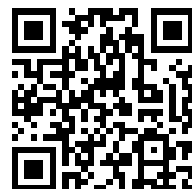
|                                                                              |                 |                                     |
|------------------------------------------------------------------------------|-----------------|-------------------------------------|
| Rated voltage                                                                | kV              | 1                                   |
| Number and rated area of conductors                                          | mm <sup>2</sup> | 1 x 400                             |
| Phase insulation thickness                                                   | mm              | 2.6                                 |
| Permissible continuous current rating (AC of industrial frequency) *         |                 |                                     |
| • <i>by aerial laying</i>                                                    | A               | 544                                 |
| • <i>by burial</i>                                                           | A               | 485                                 |
| Permissible continuous current rating (DC) *                                 |                 |                                     |
| • <i>by aerial laying</i>                                                    | A               | 693                                 |
| • <i>by burial</i>                                                           | A               | 753                                 |
| Maximum permissible conductor temperature                                    |                 |                                     |
| • <i>Continuous</i>                                                          | °C              | +70                                 |
| • <i>in emergency operation</i>                                              | °C              | +90                                 |
| • <i>at short circuit</i>                                                    | °C              | +140                                |
| Operating temperature range                                                  | °C              | -50 ... +50                         |
| Minimum bending radius by laying                                             | mm              | 380                                 |
| Rated outer diameter of the cable (for reference) **                         | mm              | 38                                  |
| Cable weight (approximate)                                                   | kg/km           | 2150                                |
| Rated factory cable length and gross weight of the delivery on the drums *** | m, t            | # 16a: 700 • 1.8<br># 18: 800 • 2.2 |

Notes:

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

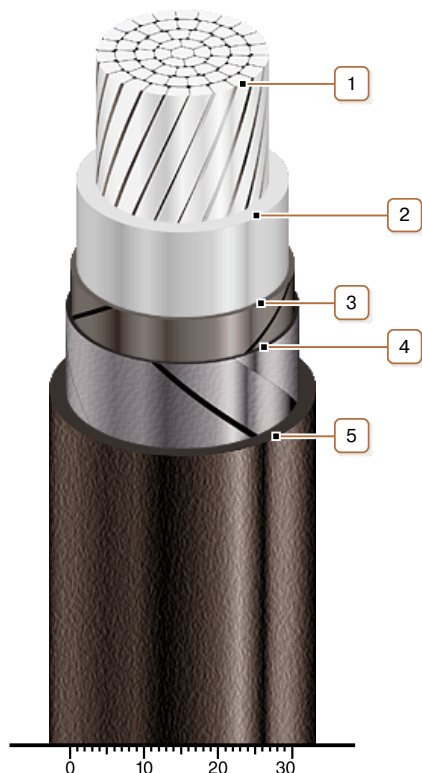
\* Long permissible current loads are calculated for the following conditions: air temperature plus 25 °C, soil temperature plus 15 °C, thermal resistivity of soil 1.2 °K·m/W, laying depth in the soil 0.7 m

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



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### **CONSTRUCTION**

- 1. Aluminium multiwire compacted conductor*
- 2. PVC compound insulation*
- 3. Tape core wrapping*
- 4. Double galvanized steel-tape armour*
- 5. Pressed PVC compound protection hose*