



## АВБШнгд 1х500-3 ТУ У 31.3-00214534-018-2003

Power cables with aluminium conductors, with low-flammable PVC-compound insulation, galvanized steel-tape armoured, with 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
- in bunches, in crowded places

Fire safety code in accordance with ДСТУ 4809:2007: ПБ123121000

Products of this mark meet the requirements:

- single wire cable flame retardance
- bunched cable flame retardance category A
- toxicity class Tk3 of the combustion products of nonmetallic elements (toxicity index over 120 g/m<sup>3</sup>)
- class ДТк1 on smoke-forming ability by smouldering of non-metallic elements (coefficient of smoke formation from 50 to 500 m<sup>2</sup>/kg)
- class ДПк2 on smoke-forming ability by combustion (minimum luminous flux more than 60 %)
- corrosive class Kк1 of combustion products of non-metallic elements (the number of halogen hydrides less than 150 mg/g, pH less than 4.3, specific conductivity more than 10 µS/mm)

### TECHNICAL SPECIFICATIONS

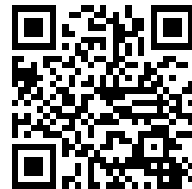
|  |                 |                                    |
|--|-----------------|------------------------------------|
| Rated voltage  | kV              | 3                                  |
| Number and rated area of conductors                                      | mm <sup>2</sup> | 1 x 500                            |
| Phase insulation thickness   | mm              | 2.8                                |
| Permissible continuous current rating (AC of industrial frequency) *     |                 |                                    |
| • by aerial laying   | A               | 636                                |
| • by burial  | A               | 556                                |
| Permissible continuous current rating (DC) *                             |                 |                                    |
| • by aerial laying   | A               | 819                                |
| • by burial  | A               | 870                                |
| Maximum permissible conductor temperature                                |                 |                                    |
| • Continuous   | °C              | +70                                |
| • in emergency operation   | °C              | +80                                |
| • at short circuit   | °C              | +130                               |
| Operating temperature range  | °C              | -50 ... +50                        |
| Minimum bending radius by laying   | mm              | 430                                |
| Rated outer diameter of the cable (for reference) **                     | mm              | 43                                 |
| Cable weight (approximate)   | kg/km           | 3050                               |
| Rated factory cable length and gross weight of the delivery on the drums | m, t            | # 18: 600 • 2.3<br># 20: 960 • 3.6 |

Notes:

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

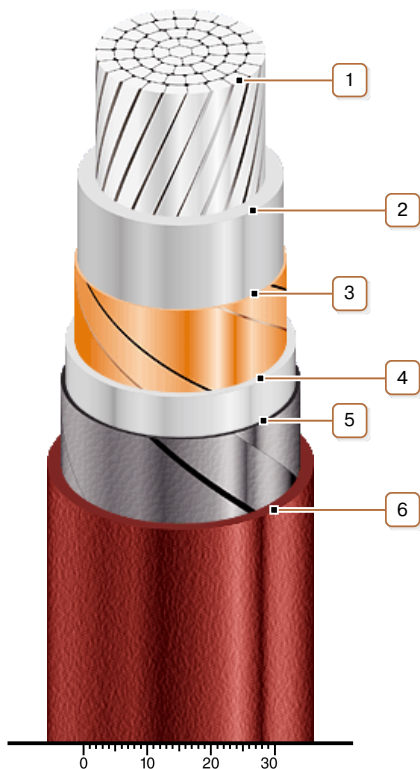
\* Long permissible current loads are calculated for the following conditions: air temperature plus 25 °C, soil temperature plus 15 °C, thermal resistivity of soil 1.2 °K·m/W, laying depth in the soil 0.7 m

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



## АВБШнгд 1х500-3 ТУ У 31.3-00214534-018-2003

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



### CONSTRUCTION

1. Aluminium multiwire compacted conductor
2. Low fire-risk PVC compound insulation
3. Copper screen
4. Low fire-risk PVC-compound inner sheath
5. Double galvanized steel-tape armour
6. Pressed off low fire-risk PVC compound protection hose