

**АВБбШнг 3х120 (ож)-6**  
**ТУ У 31.3-00214534-018-2003**

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:

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

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              | 6                                  |
| Number and rated area of conductors                                          | mm <sup>2</sup> | 3 x 120                            |
| Phase insulation thickness                                                   | mm              | 3.4                                |
| Permissible continious current rating (AC of industrial frequency) *         |                 |                                    |
| • <i>by aerial laying</i>                                                    | A               | 229                                |
| • <i>by burial</i>                                                           | A               | 244                                |
| 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              | 390                                |
| Rated outer diameter of the cable (for reference) **                         | mm              | 52                                 |
| Cable weight (approximate)                                                   | kg/km           | 3710                               |
| Rated factory cable length and gross weight of the delivery on the drums *** | m, t            | # 18: 430 • 2.1<br># 20: 680 • 3.2 |

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. Aluminium conductor
2. PVC compound insulation
3. PVC compound bundle
4. PET film winding
5. PVC compound belt insulation
6. Lapping layer of semiconductive paper
7. Copper screen
8. Tape bedding
9. Double galvanized steel-tape armour
10. Pressed off low-flammable PVC compound protection hose

*Note: Conductor twisting is not illustrated*

