



## АПВБВнг 3х50 (ож)-1 ТУ У 31.3-00214534-018-2003

Power cables with aluminium conductors, XLPE-insulated, galvanized steel-tape armoured, with low-flammable PVC-compound outer sheath

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 multiwire conductors is possible

Manufacturing of cable with tape 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> | 3 x 50                               |
| Phase insulation thickness                                                   | mm              | 1                                    |
| Permissible continuous current rating (AC of industrial frequency) *         |                 |                                      |
| • <i>by aerial laying</i>                                                    | A               | 158                                  |
| • <i>by burial</i>                                                           | A               | 157                                  |
| Maximum permissible conductor temperature                                    |                 |                                      |
| • <i>Continuous</i>                                                          | °C              | +90                                  |
| • <i>in emergency operation</i>                                              | °C              | +130                                 |
| • <i>at short circuit</i>                                                    | °C              | +250                                 |
| Operating temperature range                                                  | °C              | -50 ... +50                          |
| Minimum bending radius by laying                                             | mm              | 225                                  |
| Rated outer diameter of the cable (for reference) **                         | mm              | 30                                   |
| Cable weight (approximate)                                                   | kg/km           | 1000                                 |
| Rated factory cable length and gross weight of the delivery on the drums *** | m, t            | # 14: 700 • 0.9<br># 16a: 1120 • 1.4 |

Notes:

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

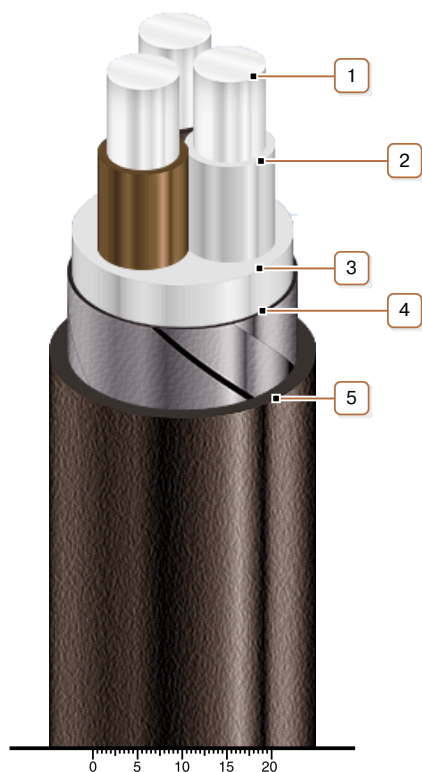
\* Long permissible current loads are calculated for the following conditions: air temperature plus 25 °C, soil temperature plus 15 °C, thermal resistivity of soil 1.2 °K·m/W, laying depth in the soil 0.7 m

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



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### CONSTRUCTION

1. Aluminium conductor
2. XLPE insulation
3. PVC compound belt insulation
4. Double galvanized steel-tape armour
5. Low flammable PVC compound outer sheath

*Note: Conductor twisting is not illustrated*