



## ААПлГ 4x50(ож)-1 ТУ У 27.3-00214534-091:2017

Power cables with aluminium conductors, with impregnated paper insulation, aluminium-sheathed, steel-wire armoured

Cables are used for laying:

- in dry premises (tunnels), ducts, cable cellars, mines, collectors, industrial and other premises, including damp, partially flooded premises, environment with medium and high corrosiveness
- in fire-risk premises
- on technological trestles
- on special cable bridges
- on bridges
- with a risk of mechanical damage and tensile forces in operation

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> | 4 x 50           |
| Insulation thickness between conductors                                      | mm              | 1.5              |
| Insulation thickness of conductor-sheath                                     | mm              | 1.25             |
| Sheath thickness                                                             | mm              | 1.3              |
| Permissible continuous current rating *                                      |                 |                  |
| • by aerial laying                                                           | A               | 136              |
| • by burial                                                                  | A               | 142              |
| Operating temperature range                                                  | °C              | -50 ... +50      |
| Minimum bending radius by laying                                             | mm              | 925              |
| Level difference along the laying route, not more than                       | m               | 25               |
| Metal sheath outer diameter (for reference only)                             | mm              | 24               |
| Rated outer diameter of the cable (for reference) **                         | mm              | 37               |
| Cable weight (approximate)                                                   | kg/km           | 2690             |
| Rated factory cable length and gross weight of the delivery on the drums *** | m, t            | # 16a: 700 • 2.1 |

Notes:

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

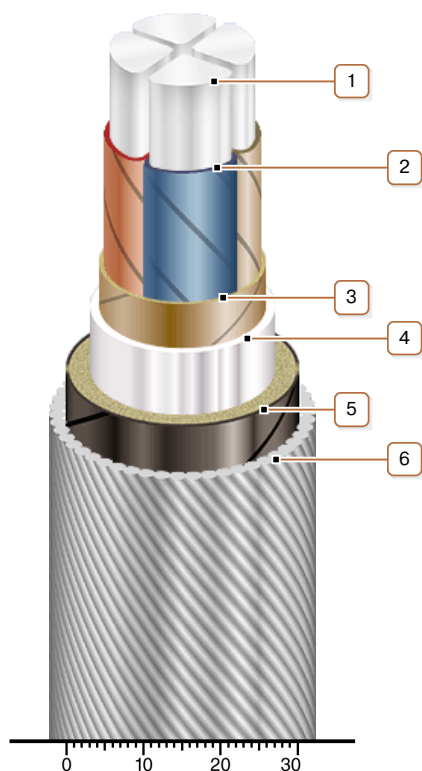
\* Long permissible current loads are calculated during operation in four-wire networks with load in all the conductors for the following conditions: air temperature plus 25 °C, soil temperature plus 15 °C, thermal resistivity of soil 1.2 °K·m/W, laying depth in the soil 0.7 m

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



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### CONSTRUCTION

1. Aluminium conductor
2. Impregnated paper insulation
3. Belt insulation
4. Aluminium sheath
5. Single-layer plastic-tape bedding
6. Round galvanized steel-wire armour

*Note: Conductor twisting is not illustrated*