



## АПВГ 5x50 (ож)-1 ТУ У 31.3-00214534-048:2007

Power cables with aluminium conductors, XLPE-insulated, with PVC-compound outer sheath

Cables are used for laying:

- *single laying*
- *in premises, dry ducts and tunnels, in corrosive environment*

Manufacturing of cable with multiwire conductors 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> | 5 x 50                              |
| Phase insulation thickness                                                   | mm              | 1                                   |
| Permissible continious current rating (AC of industrial frequency) *         |                 |                                     |
| • <i>by aerial laying</i>                                                    | A               | 146                                 |
| • <i>by burial</i>                                                           | A               | 146                                 |
| 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              | 232.5                               |
| Rated outer diameter of the cable (for reference) **                         | mm              | 31                                  |
| Cable weight (approximate)                                                   | kg/km           | 1060                                |
| Rated factory cable length and gross weight of the delivery on the drums *** | m, t            | # 14: 610 • 0.8<br># 16a: 990 • 1.3 |

Notes:

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

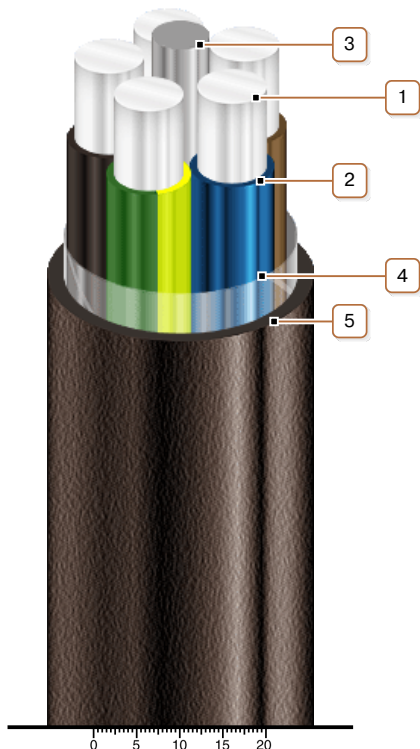
\* Long permissible current loads are calculated for the following conditions: air temperature plus 25 °C, soil temperature plus 15 °C, thermal resistivity of soil 1.2 °K·m/W, laying depth in the soil 0.7 m

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



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### CONSTRUCTION

1. Aluminium conductor
2. XLPE insulation
3. PVC compound bundle
4. PET film winding
5. PVC compound outer sheath

*Note: Conductor twisting is not illustrated*