

## АПВГнгд 4x50 (ож)-1 ТУ У 31.3-00214534-018-2003

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

Cables are used for laying:

- in bunches
- in premises, dry ducts and tunnels, in corrosive environment
- in bunches, in crowded places

Manufacturing of cable with multiwire conductors is possible

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 Кк1 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

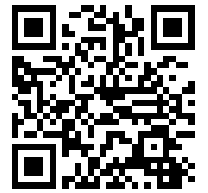
|  |                 |   |
|--|-----------------|---|
| Rated voltage  | kV              | 1   |
| Number and rated area of conductors  | mm <sup>2</sup> | 4 x 50  |
| Phase insulation thickness   | mm              | 1   |
| Permissible continuous current rating (AC of industrial frequency) *         |                 |   |
| • by aerial laying   | A               | 146   |
| • by burial  | A               | 146   |
| Maximum permissible conductor temperature                                    |                 |   |
| • Continuous   | °C              | +90   |
| • in emergency operation   | °C              | +130  |
| • at short circuit   | °C              | +250  |
| Operating temperature range  | °C              | -50 ... +50   |
| Minimum bending radius by laying   | mm              | 240   |
| Rated outer diameter of the cable (for reference) **                         | mm              | 32  |
| Cable weight (approximate)   | kg/km           | 1360  |
| Rated factory cable length and gross weight of the delivery on the drums *** | m, t            | # 14: 610 • 1.0<br># 16a: 990 • 1.6<br># 18: 1130 • 2.0 |

Notes:

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

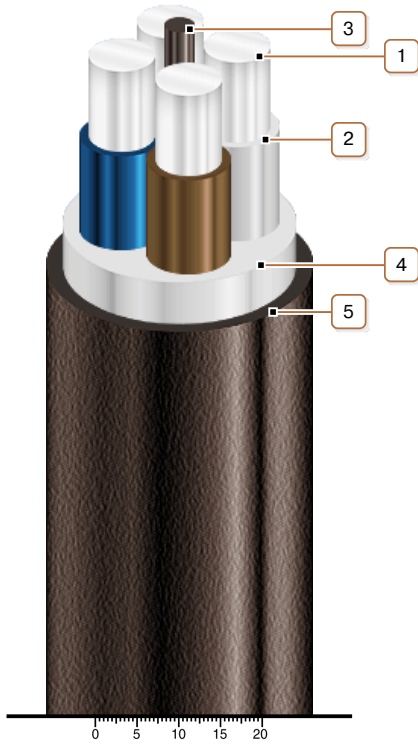
\* Long permissible current loads are calculated during operation in four-wire networks with load in all the conductors for the following conditions: air temperature plus 25 °C, soil temperature plus 15 °C, thermal resistivity of soil 1.2 °K·m/W, laying depth in the soil 0.7 m

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



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### CONSTRUCTION

1. Aluminium conductor
2. XLPE insulation
3. Low fire-risk PVC-compound bundle
4. Low fire-risk PVC-compound inner sheath
5. Low fire-risk PVC compound outer sheath

*Note: Conductor twisting is not illustrated*