

## ААБнлШнгд 3х185(ож)-10 ТУ У 27.3-00214534-091:2017

Power cables with aluminium conductors, with impregnated paper insulation, aluminium-sheathed, steel-tape armoured, with low-flammable PVC-compound protection hose

Cables are used for laying:

- *in fire-risk premises*
- *on technological trestles*
- *with a risk of mechanical damage and no tensile forces in operation*
- *at sites, where low smoke and gas emission are required in the process of combustion and smouldering: NPP, electrical generating stations, subway, high-rise buildings, large industrial facilities and etc.*

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 Kk1 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              | 10                                                    |
| Number and rated area of conductors                                          | mm <sup>2</sup> | 3 x 185                                               |
| Insulation thickness between conductors                                      | mm              | 5.5                                                   |
| Insulation thickness of conductor-sheath                                     | mm              | 4                                                     |
| Sheath thickness                                                             | mm              | 1.75                                                  |
| Permissible continious current rating *                                      |                 |                                                       |
| • <i>by aerial laying</i>                                                    | A               | 298                                                   |
| • <i>by burial</i>                                                           | A               | 275                                                   |
| Operating temperature range                                                  | °C              | -50 ... +50                                           |
| Minimum bending radius by laying                                             | mm              | 1450                                                  |
| Level difference along the laying rout, not more than                        | m               | 15                                                    |
| Metal shaeth outer diameter (for reference only)                             | mm              | 44                                                    |
| Rated outer diameter of the cable (for reference) **                         | mm              | 58                                                    |
| Cable weight (approximate)                                                   | kg/km           | 5190                                                  |
| Rated factory cable length and gross weight of the delivery on the drums *** | m, t            | # 18: 340 • 2.2<br># 20: 550 • 3.5<br># 22: 620 • 4.0 |

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

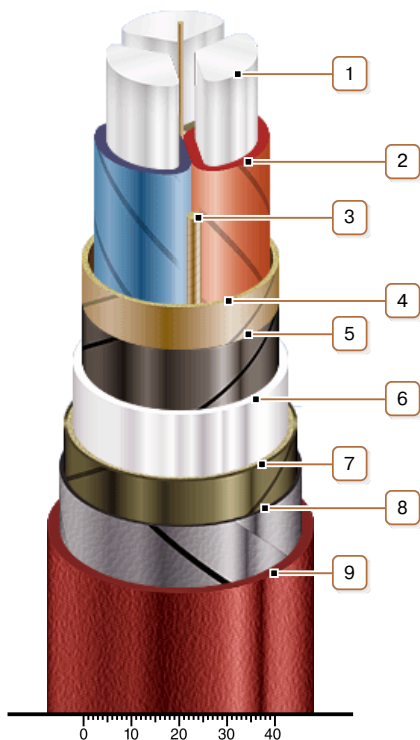
\*\* The external diameter may differ from the rated up to ± 10 %



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### CONSTRUCTION



1. Aluminium conductor
2. Impregnated paper insulation
3. Cable paper bundle
4. Belt insulation
5. Conducting paper screen
6. Aluminium sheath
7. Plastic-tape and glass-tape bedding
8. Double galvanized steel-tape armour
9. Pressed off low fire-risk PVC compound protection hose

*Note: Conductor twisting is not illustrated*