

## **ААБвШнгд 3х185-1 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

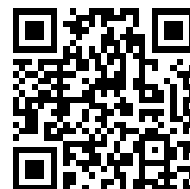
Cables are used for laying:

- *in 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*
- *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)*



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### TECHNICAL SPECIFICATIONS

|                                                                              |                 |                                    |
|------------------------------------------------------------------------------|-----------------|------------------------------------|
| Rated voltage                                                                | kV              | 1                                  |
| Number and rated area of conductors                                          | mm <sup>2</sup> | 3 x 185                            |
| Insulation thickness between conductors                                      | mm              | 1.9                                |
| Insulation thickness of conductor-sheath                                     | mm              | 1.55                               |
| Sheath thickness                                                             | mm              | 1.55                               |
| Permissible continuous current rating *                                      |                 |                                    |
| • by aerial laying                                                           | A               | 342                                |
| • by burial                                                                  | A               | 314                                |
| Operating temperature range                                                  | °C              | -50 ... +50                        |
| Minimum bending radius by laying                                             | mm              | 1325                               |
| Level difference along the laying rout, not more than                        | m               | 25                                 |
| Metal sheath outer diameter (for reference only)                             | mm              | 40                                 |
| Rated outer diameter of the cable (for reference) **                         | mm              | 53                                 |
| Cable weight (approximate)                                                   | kg/km           | 4440                               |
| Rated factory cable length and gross weight of the delivery on the drums *** | m, t            | # 18: 400 • 2.2<br># 20: 630 • 3.4 |

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 %

### CONSTRUCTION

1. Aluminium multiwire compacted conductor
2. Impregnated paper insulation
3. Cable paper bundle
4. Belt insulation
5. Aluminium sheath
6. Bedding with PVC compound moulded-in hose
7. Double galvanized steel-tape armour
8. Pressed off low fire-risk PVC compound protection hose

Note: Conductor twisting is not illustrated

