

## ААБнлШнгд 3х95-10 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 95                             |
| Insulation thickness between conductors                                      | mm              | 5.5                                |
| Insulation thickness of conductor-sheath                                     | mm              | 4                                  |
| Sheath thickness   | mm              | 1.55                               |
| Permissible continuous current rating *                                      |                 |                                    |
| • by aerial laying   | A               | 194                                |
| • by burial  | A               | 192                                |
| Operating temperature range  | °C              | -50 ... +50                        |
| Minimum bending radius by laying   | mm              | 1250                               |
| Level difference along the laying rout, not more than                        | m               | 15                                 |
| Metal sheath outer diameter (for reference only)                             | mm              | 38                                 |
| Rated outer diameter of the cable (for reference) **                         | mm              | 50                                 |
| Cable weight (approximate)   | kg/km           | 3780                               |
| Rated factory cable length and gross weight of the delivery on the drums *** | m, t            | # 18: 460 · 2.2<br># 20: 740 · 3.4 |

Notes:

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

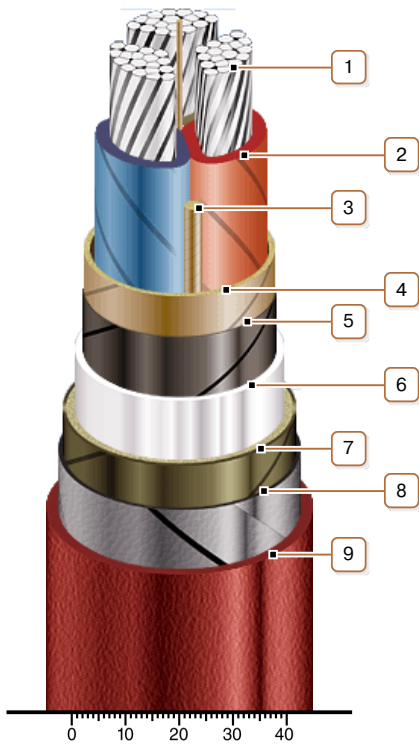
\* Long permissible current loads are calculated for the following conditions: air temperature plus 25 °C, soil temperature plus 15 °C, thermal resistivity of soil 1.2 °K·m/W, laying depth in the soil 0.7 m

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



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### CONSTRUCTION

1. Aluminium multiwire compacted 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