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## АСБнлШнгд 3х120(ож)-6 ТУ У 27.3-00214534-091:2017



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

Cables are used for laying:

- in fire-risk premises
- on special cable bridges
- 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  $\[mu]T\kappa 1$  on smoke-forming ability by smouldering of non-metallic elements (coefficient of smoke formation from 50 to 500 m<sup>2</sup>/kg)

• class ДΠκ2 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  $\mu$ S/mm)

## **TECHNICAL SPECIFICATIONS**

| Rated voltage                                               | kV    | 6                |
|-------------------------------------------------------------|-------|------------------|
| Number and rated area of conductors                         | mm²   | 3 x 120          |
| Insulation thikness between conductors                      | mm    | 4                |
| Insulation thikness of conductor-sheath                     | mm    | 2.95             |
| Sheath thikness                                             | mm    | 1.42             |
| Permissible continious current rating *                     |       |                  |
| • by aerial laying                                          | А     | 248              |
| • by burial                                                 | А     | 243              |
| Operating temperature range                                 | °C    | -50 +50          |
| Minimum bending radius by laying                            | mm    | 720              |
| Level difference along the laying rout, not more than       | m     | 15               |
| Metal shaeth outer diameter (for reference only)            | mm    | 34               |
| Rated outer diameter of the cable (for reference) **        | mm    | 48               |
| Cable weight (approximate)                                  | kg/km | 4770             |
| Rated factory cable length and gross weight of the delivery | m, t  | # 16a: 440 • 2.4 |
| on the drums ***                                            |       | # 18: 500 • 2.8  |
| 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  $^{\circ}\!K\!\cdot\!m/W$ , laying depth in the soil 0.7 m

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



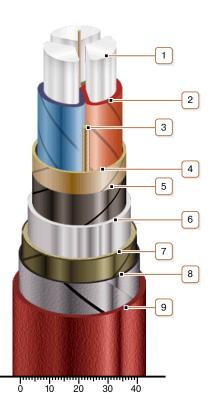


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## **CONSTRUCTION**

- 1. Aluminium conductor
- 2. Impregnated paper insulation
- 3. Cable paper bundle
- 4. Belt insulation
- 5. Conducting paper screen
- 6. Lead 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