



## СБнлШнгд 3х120-6 ТУ У 27.3-00214534-091:2017

Power cables with copper 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 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              | 6                                   |
| Number and rated area of conductors                                          | mm <sup>2</sup> | 3 x 120                             |
| Insulation thickness between conductors                                      | mm              | 4                                   |
| Insulation thickness of conductor-sheath                                     | mm              | 2.95                                |
| Sheath thickness                                                             | mm              | 1.46                                |
| Permissible continuous current rating *                                      |                 |                                     |
| • by aerial laying                                                           | A               | 342                                 |
| • by burial                                                                  | A               | 318                                 |
| Operating temperature range                                                  | °C              | -50 ... +50                         |
| Minimum bending radius by laying                                             | mm              | 750                                 |
| Level difference along the laying rout, not more than                        | m               | 15                                  |
| Metal sheath outer diameter (for reference only)                             | mm              | 37                                  |
| Rated outer diameter of the cable (for reference) **                         | mm              | 50                                  |
| Cable weight (approximate)                                                   | kg/km           | 7480                                |
| Rated factory cable length and gross weight of the delivery on the drums *** | m, t            | # 16a: 410 • 3.3<br># 18: 460 • 3.9 |

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

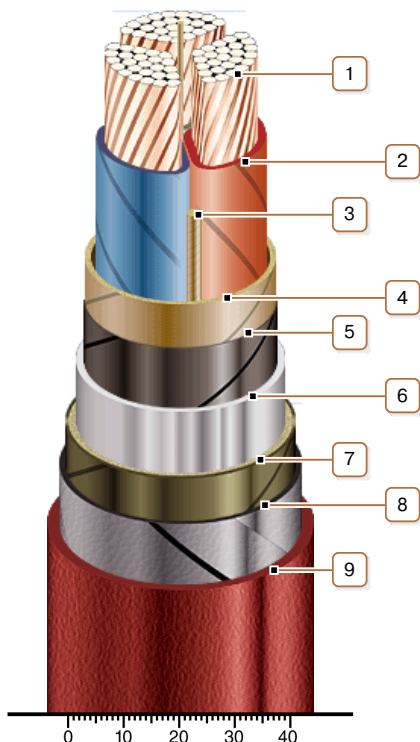
\*\* The external diameter may differ from the rated up to ± 10 %



## СБнлШнгд 3х120-6 ТУ У 27.3-00214534-091:2017

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

### CONSTRUCTION



1. Copper multiwire compact 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*