



## **СБвШнгд 3х120-1 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 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 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 Kк1 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 120                             |
| Insulation thickness between conductors                                      | mm              | 1.7                                 |
| Insulation thickness of conductor-sheath                                     | mm              | 1.45                                |
| Sheath thickness   | mm              | 1.36                                |
| Permissible continuous current rating *                                      |                 |                                     |
| • by aerial laying   | A               | 348                                 |
| • by burial  | A               | 325                                 |
| Operating temperature range  | °C              | -50 ... +50                         |
| Minimum bending radius by laying   | mm              | 645                                 |
| Level difference along the laying rout, not more than                        | m               | 20                                  |
| Metal shaeth outer diameter (for reference only)                             | mm              | 31                                  |
| Rated outer diameter of the cable (for reference) **                         | mm              | 43                                  |
| Cable weight (approximate)   | kg/km           | 6690                                |
| Rated factory cable length and gross weight of the delivery on the drums *** | m, t            | # 16a: 520 • 3.7<br># 18: 600 • 4.5 |

**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. Copper multiwire compact conductor
2. Impregnated paper insulation
3. Belt insulation
4. Lead sheath
5. Bedding with PVC compound moulded-in hose
6. Double galvanized steel-tape armour
7. Pressed off low fire-risk PVC compound protection hose

Note: Conductor twisting is not illustrated

