



## ПВГнгд 1х16-1 ТУ У 31.3-00214534-018-2003

Power cables with copper conductors, XLPE-insulated, with low fire-risk PVC-compound outer sheath

Cables are used for laying:

- *in bunches*
- *in premises, dry ducts and tunnels, in corrosive environment*
- *in bunches, in crowded places*

Manufacturing of cable with multiwire conductors is possible

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              | 1           |
| Number and rated area of conductors                                  | mm <sup>2</sup> | 1 x 16      |
| Phase insulation thickness                                           | mm              | 0.7         |
| Permissible continuous current rating (AC of industrial frequency) * |                 |             |
| • <i>by aerial laying</i>                                            | A               | 108         |
| • <i>by burial</i>                                                   | A               | 115         |
| Permissible continuous current rating (DC) *                         |                 |             |
| • <i>by aerial laying</i>                                            | A               | 139         |
| • <i>by burial</i>                                                   | A               | 175         |
| Maximum permissible conductor temperature                            |                 |             |
| • <i>Continuous</i>                                                  | °C              | +90         |
| • <i>in emergency operation</i>                                      | °C              | +130        |
| • <i>at short circuit</i>                                            | °C              | +250        |
| Operating temperature range                                          | °C              | -50 ... +50 |
| Minimum bending radius by laying                                     | mm              | 100         |
| Rated outer diameter of the cable (for reference) **                 | mm              | 10          |
| Cable weight (approximate)                                           | kg/km           | 200         |

Notes:

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

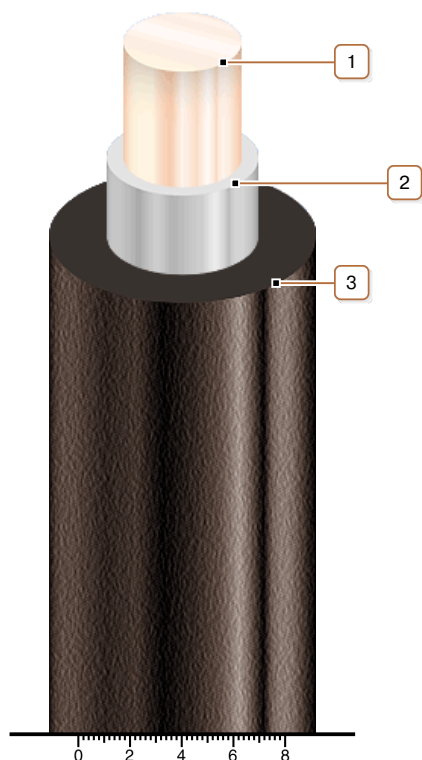
\* Long permissible current loads are calculated for the following conditions: air temperature plus 25 °C, soil temperature plus 15 °C, thermal resistivity of soil 1.2 °K·m/W, laying depth in the soil 0.7 m

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



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### CONSTRUCTION

1. Copper conductor
2. XLPE insulation
3. Low fire-risk PVC compound outer sheath