



## B3KB 5x16-1

### TY Y 31.3-00214534-016-2003

Power cables with copper conductors, with PVC compound insulation, with filling of intermediate spaces between the conductors, round-steel-wire armoured, with PVC compound outer sheath

Cables are used for laying:

- *single laying*
- *in premises, dry ducts and tunnels, in corrosive environment*
- *in places, where intense tensile forces are possible (in cable lifting, in bulk, heaving, boggy, everfrost soils)*

Manufacturing of cables with a different number and different design of conductors is possible

Manufacturing of single-phase cables with aluminium-wire armour is possible

Fire safety code in accordance with ДСТУ 4809:2007: ПБ100000000

Products of this mark meet the requirements:

- *single wire cable flame retardance*

## TECHNICAL SPECIFICATIONS

|  |                 |                 |
|--|-----------------|-----------------|
| Rated voltage  | kV              | 1               |
| Number and rated area of conductors  | mm <sup>2</sup> | 5 x 16          |
| Phase insulation thickness   | mm              | 1               |
| Armor wire diameter  | mm              | 1.4             |
| Permissible continuous current rating (AC of industrial frequency) *         |                 |                 |
| • <i>by aerial laying</i>  | A               | 78              |
| • <i>by burial</i>   | A               | 94              |
| Maximum permissible conductor temperature                                    |                 |                 |
| • <i>Continuous</i>  | °C              | +70             |
| • <i>at short circuit</i>  | °C              | +160            |
| Operating temperature range  | °C              | -50 ... +50     |
| Minimum bending radius by laying   | mm              | 168             |
| Rated outer diameter of the cable (for reference) **                         | mm              | 28              |
| Cable weight (approximate)   | kg/km           | 1990            |
| Rated factory cable length and gross weight of the delivery on the drums *** | m, t            | # 14: 800 • 1.8 |

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

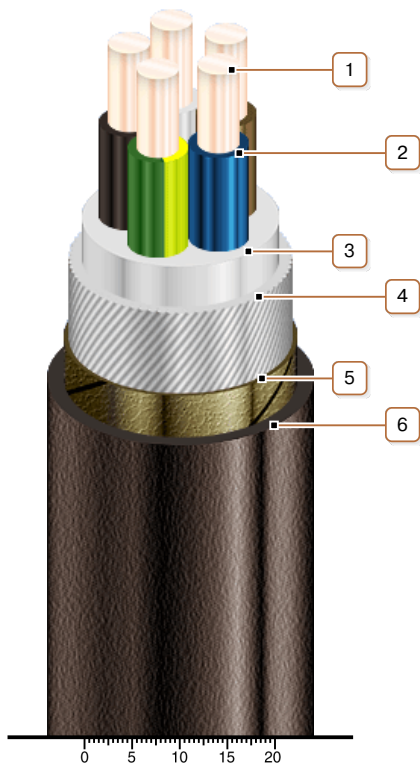
\*\* The external diameter may differ from the rated up to ± 10 %





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### **CONSTRUCTION**

1. Copper conductor
2. PVC compound insulation
3. PVC compound belt insulation
4. Round galvanized steel-wire armour  
*Note: Manufacturing of single-phase cables with aluminium-wire armour is possible*
5. Lapping layer of nonwoven cloth tape
6. PVC compound outer sheath

*Note: Conductor twisting is not illustrated*