



## BBГ-K 4x50/35-1 TY Y 31.3-00214534-048:2007

Power cables with copper conductors, with PVC compound insulation, with concentric conductor, with PVC compound outer sheath

Cables are used for laying:

- *single laying*
- *in premises, dry ducts and tunnels, in corrosive environment*
- *in locations, where a high level of electrical protection is required*

It is possible to manufacture armoured cable

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> | 4 x 50                              |
| Nominal cross-section area of concentric conductor                           | mm <sup>2</sup> | 35                                  |
| Phase insulation thickness   | mm              | 1.4                                 |
| Permissible continuous current rating (AC of industrial frequency) *         |                 |                                     |
| • <i>by aerial laying</i>  | A               | 155                                 |
| • <i>by burial</i>   | A               | 173                                 |
| 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              | 285                                 |
| Rated outer diameter of the cable (for reference) **                         | mm              | 38                                  |
| Cable weight (approximate)   | kg/km           | 3240                                |
| Rated factory cable length and gross weight of the delivery on the drums *** | m, t            | # 16a: 700 • 2.5<br># 18: 800 • 3.1 |

Notes:

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

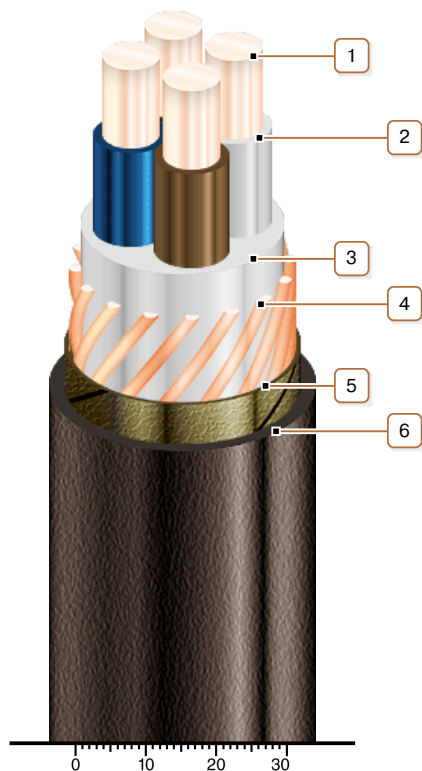
\* Long permissible current loads are calculated during operation in four-wire networks with load in all the conductors for the following conditions: air temperature plus 25 °C, soil temperature plus 15 °C, thermal resistivity of soil 1.2 °K·m/W, laying depth in the soil 0.7 m

\*\* 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. Concentric copper conductor
5. Lapping layer of nonwoven cloth tape
6. PVC compound outer sheath

*Note: Conductor twisting is not illustrated*