



## **ПвКВ 5х50-1** **TY Y 31.3-00214534-016-2003**

Power cables with copper conductors, XLPE-insulated, galvanized 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 50                              |
| Phase insulation thickness                                               | mm              | 1                                   |
| Armor wire diameter                                                      | mm              | 1.8                                 |
| Permissible continuous current rating (AC of industrial frequency) *     |                 |                                     |
| • <i>by aerial laying</i>                                                | A               | 194                                 |
| • <i>by burial</i>                                                       | A               | 190                                 |
| Maximum permissible conductor temperature                                |                 |                                     |
| • <i>Continuous</i>                                                      | °C              | +90                                 |
| • <i>at short circuit</i>                                                | °C              | +250                                |
| Operating temperature range                                              | °C              | -50 ... +50                         |
| Minimum bending radius by laying                                         | mm              | 228                                 |
| Rated outer diameter of the cable (for reference) **                     | mm              | 38                                  |
| Cable weight (approximate)                                               | kg/km           | 3850                                |
| Rated factory cable length and gross weight of the delivery on the drums | m, t            | # 16a: 700 • 3.0<br># 18: 800 • 3.5 |

Notes:

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

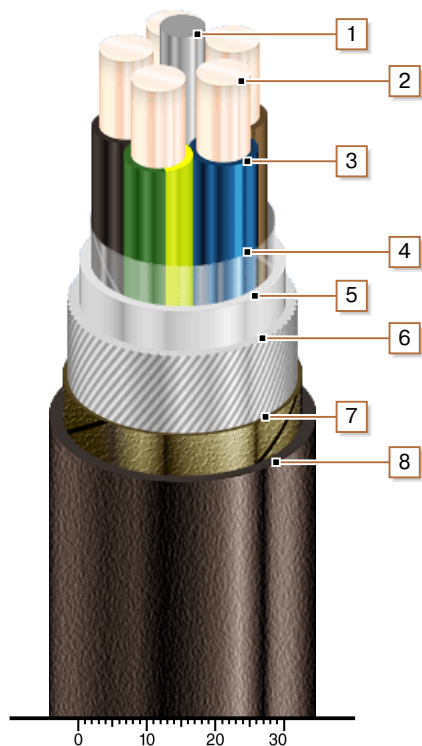
\* Long permissible current loads are calculated for the following conditions: air temperature plus 25 °C, soil temperature plus 15 °C, thermal resistivity of soil 1.2 °K·m/W, laying depth in the soil 0.7 m

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



## ПвКВ 5х50-1 ТУ У 31.3-00214534-016-2003

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### CONSTRUCTION

1. PVC compound bundle
2. Copper conductor
3. XLPE insulation
4. PET film winding
5. PVC compound belt insulation
6. Round galvanized steel-wire armour
7. Lapping layer of nonwoven cloth tape
8. PVC compound outer sheath

*Note: conductor twisting is not illustrated*