



## ПВБШВ 5x50-1 ГОСТ 16442-80, ТУ У 31.3-00214534-048:2007

Power cables with copper conductors, XLPE-insulated, galvanized steel-tape armoured, with PVC-compound protection hose

Cables are used for laying:

- *single laying*
- *in premises, dry ducts and tunnels, in corrosive environment*
- *in places, where small mechanical impacts on cable are possible, including tensile forces*

Manufacturing of cable with multiwire conductors is possible

Manufacturing of non-galvanized armoured cable, covered with a layer of bitumen and PET film is possible

Manufacturing of cable with tape belt insulation 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

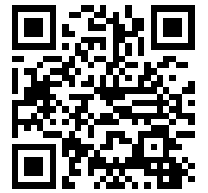
|  |                 |                                     |
|--|-----------------|-------------------------------------|
| Rated voltage  | kV              | 1                                   |
| Number and rated area of conductors                                      | mm <sup>2</sup> | 5 x 50                              |
| Phase insulation thickness   | mm              | 1                                   |
| 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>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              | 262.5                               |
| Rated outer diameter of the cable (for reference) **                     | mm              | 35                                  |
| Cable weight (approximate)   | kg/km           | 2890                                |
| Rated factory cable length and gross weight of the delivery on the drums | m, t            | # 16a: 780 • 2.5<br># 18: 890 • 3.0 |

Notes:

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

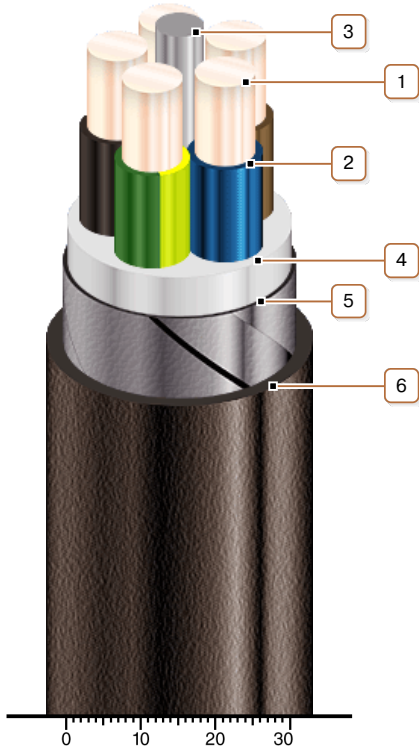
*\* Long permissible current loads are calculated for the following conditions: air temperature plus 25 °C, soil temperature plus 15 °C, thermal resistivity of soil 1.2 °K·m/W, laying depth in the soil 0.7 m*

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



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**CONSTRUCTION**

1. Copper conductor
2. XLPE insulation
3. PVC compound bundle
4. PVC compound belt insulation
5. Double galvanized steel-tape armour
6. Pressed PVC compound protection hose

*Note: Conductor twisting is not illustrated*