



ПВБШВ 1x50-1 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

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 ² | 1 x 50 |
| Phase insulation thickness | mm | 1 |
| Permissible continuous current rating (AC of industrial frequency) * | | |
| • <i>by aerial laying</i> | A | 220 |
| • <i>by burial</i> | A | 208 |
| Permissible continuous current rating (DC) * | | |
| • <i>by aerial laying</i> | A | 281 |
| • <i>by burial</i> | A | 325 |
| 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 | 190 |
| Rated outer diameter of the cable (for reference) ** | mm | 19 |
| Cable weight (approximate) | kg/km | 840 |
| Rated factory cable length and gross weight of the delivery on the drums | m, t | # 12: 910 • 0.9 |

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 belt insulation*
4. *Double galvanized steel-tape armour*
5. *Pressed PVC compound protection hose*