
ВВГ 5x50-1
ТУ У 31.3-00214534-048:2007

Power cables with copper conductors, with PVC-compound insulation, with PVC-compound outer sheath

Cables are used for laying:

- *single laying*
- *in premises, dry ducts and tunnels, in corrosive environment*

Manufacturing of cable with multiwire conductors is possible

Manufacturing of cable with PVC compound 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 ² | 5 x 50 |
| 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>in emergency operation</i> | °C | +90 |
| • <i>at short circuit</i> | °C | +160 |
| Operating temperature range | °C | -50 ... +50 |
| Minimum bending radius by laying | mm | 247.5 |
| Rated outer diameter of the cable (for reference) ** | mm | 33 |
| Cable weight (approximate) | kg/km | 2580 |
| Rated factory cable length and gross weight of the delivery on the drums *** | m, t | # 14: 540 • 1.6 # 16a: 870 • 2.5 # 18: 1000 • 3.0 |

Notes:

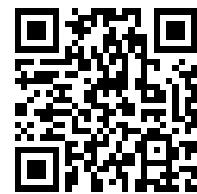
When ordering it is necessary to agree the factory length of the product with the manufacturer

* 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

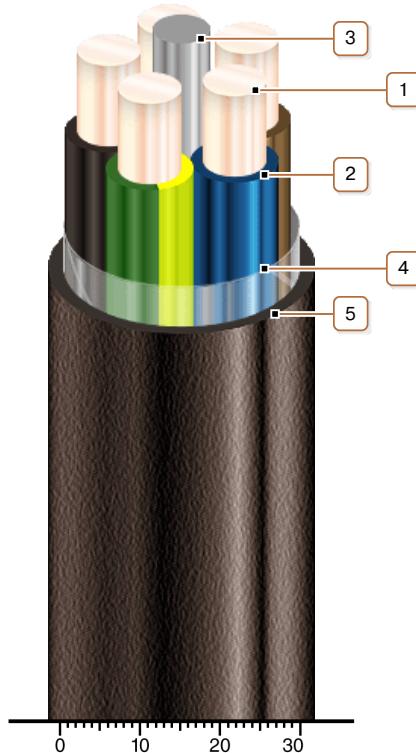
** The external diameter may differ from the rated up to ± 10 %



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**CONSTRUCTION**

1. Copper conductor
2. PVC compound insulation
3. PVC compound bundle
4. PET film winding
5. PVC compound outer sheath

Note: Conductor twisting is not illustrated