

ПвКВнг 3х50-1 ТУ У 31.3-00214534-016-2003

Power cables with copper conductors, XLPE-insulated, galvanized steel-wire armoured, with low-flammable PVC-compound outer sheath

Cables are used for laying:

- *in bunches*
- *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: ПБ130000000

Products of this mark meet the requirements:

- *single wire cable flame retardance*
- *bunched cable flame retardance category B*

TECHNICAL SPECIFICATIONS

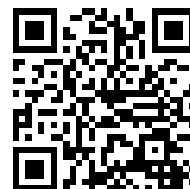
| | | |
|--|-----------------|------------------|
| Rated voltage | kV | 1 |
| Number and rated area of conductors | mm ² | 3 x 50 |
| Phase insulation thickness | mm | 1 |
| Armor wire diameter | mm | 1.8 |
| Permissible continuous current rating (AC of industrial frequency) * | | |
| • <i>by aerial laying</i> | A | 209 |
| • <i>by burial</i> | A | 205 |
| 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 | 192 |
| Rated outer diameter of the cable (for reference) ** | mm | 32 |
| Cable weight (approximate) | kg/km | 2680 |
| Rated factory cable length and gross weight of the delivery on the drums *** | m, t | # 14: 610 • 1.8 |
| | | # 16a: 990 • 2.9 |
| | | # 18: 1130 • 3.5 |

Notes:

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

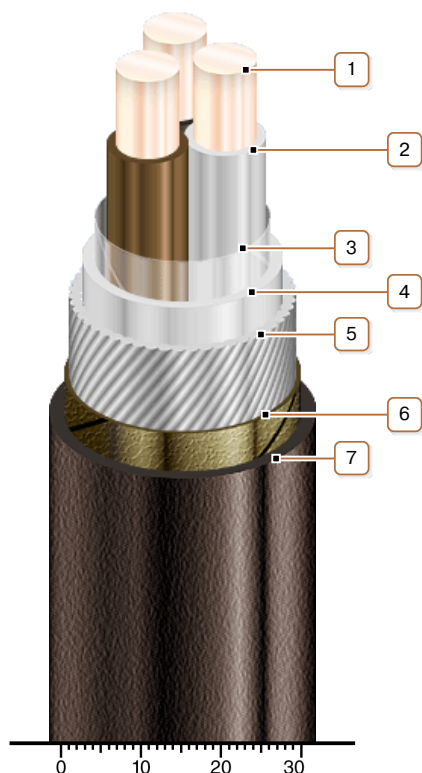
* Long permissible current loads are calculated for the following conditions: air temperature plus 25 °C, soil temperature plus 15 °C, thermal resistivity of soil 1.2 °K·m/W, laying depth in the soil 0.7 m

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



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CONSTRUCTION

1. Copper conductor
2. XLPE insulation
3. PET film winding
4. PVC compound belt insulation
5. Round galvanized steel-wire armour
Note: Manufacturing of single-phase cables with aluminium-wire armour is possible
6. Lapping layer of nonwoven cloth tape
7. Low flammable PVC compound outer sheath

Note: Conductor twisting is not illustrated