



АПвЗКП 4x50 (ож)-1 ТУ У 31.3-00214534-016-2003

Power cables with aluminium conductors, XLPE-insulated, with filling of intermediate spaces between the conductors, round-steel-wire armoured, with polyethylene outer sheath

Cables are used for laying:

- in premises, tunnels, collectors, in soil (trenches), in corrosive environment
- in places, where intense tensile forces are possible (in cable lifting, in bulk, heaving, boggy, everfrost soils)
- in water at depth up to 10 m

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 ² | 4 x 50 |
| Phase insulation thickness | mm | 1 |
| Armor wire diameter | mm | 2.2 |
| Permissible continuous current rating (AC of industrial frequency) * | | |
| • by aerial laying | A | 146 |
| • by burial | A | 146 |
| Maximum permissible conductor temperature | | |
| • Continuous | °C | +90 |
| • at short circuit | °C | +250 |
| Operating temperature range | °C | -60 ... +50 |
| Minimum bending radius by laying | mm | 304 |
| Rated outer diameter of the cable (for reference) ** | mm | 38 |
| Cable weight (approximate) | kg/km | 3930 |
| Rated factory cable length and gross weight of the delivery on the drums | m, t | # 16a: 700 • 3.0 # 18: 800 • 3.6 |

Notes:

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

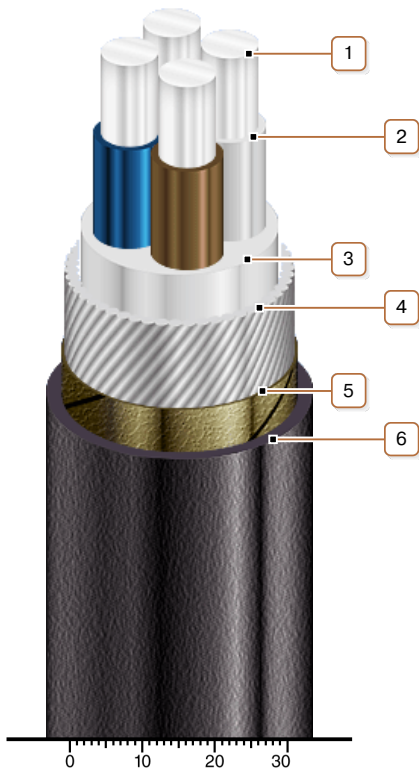
* Long permissible current loads are calculated during operation in four-wire networks with load in all the conductors for the following conditions: air temperature plus 25 °C, soil temperature plus 15 °C, thermal resistivity of soil 1.2 °K·m/W, laying depth in the soil 0.7 m

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



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CONSTRUCTION

1. Aluminium conductor

2. XLPE insulation

3. PVC compound belt insulation

4. Round galvanized steel-wire armour

Note: Manufacturing of single-phase cables with aluminium-wire armour is possible

5. Lapping layer of nonwoven cloth tape

6. Polyethylene outer sheath

Note: Conductor twisting is not illustrated