PRODUCTION GUIDE
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АПвКВ 5x50 (ож)-1
ТУ У 31.3-00214534-016-2003
Power cables with aluminium conductors, XLPE-insulated, galvanized steel-wire armoured, with PVC-compound outer sheath

Cables are used for laying:

- single laying
- 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: 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 | $\mathrm{mm}^{2}$ | $5 \times 50$ |
| Phase insulation thikness | mm | 1 |
| Armor wire diameter | mm | 1.8 |
| Permissible continious current rating (AC of industrial frequency) |  |  |
| $\cdot$ by aerial laying |  |  |
| $\cdot$ by burial | A | 146 |
| Maximum permissible conductor temperature | A | 146 |
| $\cdot$ Continious |  |  |
| $\cdot$ at short circuit | ${ }^{\circ} \mathrm{C}$ | +90 |
| Operating temperature range | ${ }^{\circ} \mathrm{C}$ | +250 |
| Minimum bending radius by laying | ${ }^{\circ} \mathrm{C}$ | $-50 \ldots+50$ |
| Rated outer diameter of the cable (for reference) ${ }^{* *}$ | mm | 304 |
| Cable weight (approximate) | mm | 38 |
| Rated factory cable length and gross weight of the delivery | $\mathrm{kg} / \mathrm{km}$ | 2460 |
| on the drums | $\mathrm{m}, \mathrm{t}$ | $\# 16 \mathrm{a}: 700 \cdot 2.0$ |

## Notes:

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

* Long permissible current loads are calculated for the following conditions: air temperature plus $25^{\circ} \mathrm{C}$, soil temperature plus $15{ }^{\circ} \mathrm{C}$,
thermal resistivity of soil $1.2{ }^{\circ} \mathrm{K} \cdot \mathrm{m} / \mathrm{W}$, laying depth in the soil 0.7 m
** The external diameter may differ from the rated up to $\pm 10 \%$

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## CONSTRUCTION

1. PVC compound bundle
2. Aluminium conductor
3. XLPE insulation
4. PET film winding
5. PVC compound belt insulation
6. Round galvanized steel-wire armour
7. Lapping layer of nonwoven cloth tape
8. PVC compound outer sheath

Note: conductor twisting is not illustrated

