PRODUCTION GUIDE
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ПвВГнг 3х50-1
тУ У 31.3-00214534-018-2003
Power cables with copper conductors, XLPE-insulated, with low-flammable PVC-compound outer sheath

Cables are used for laying:

- in bunches
- in premises, dry ducts and tunnels, in corrosive environment

Manufacturing of cable with multiwire conductors is possible
Fire safety code in accordance with ДСТУ 4809:2007: ПБ120000000
Products of this mark meet the requirements:

- single wire cable flame retardance
- bunched cable flame retardance category A


## TECHNICAL SPECIFICATIONS

| Rated voltage | kV | 1 |
| :--- | :---: | :--- |
| Number and rated area of conductors | $\mathrm{mm}^{2}$ | $3 \times 50$ |
| Phase insulation thikness | mm | 1 |
| Permissible continious current rating (AC of industrial frequency) ${ }^{*}$ |  |  |
| $\cdot$ by aerial laying | A | 209 |
| $\cdot$ by burial | A | 205 |
| Maximum permissible conductor temperature |  |  |
| $\cdot$ Continious | ${ }^{\circ} \mathrm{C}$ | +90 |
| $\cdot$ in emergency operation | ${ }^{\circ} \mathrm{C}$ | +130 |
| $\cdot{ }^{\circ} \mathrm{C}$ | +250 |  |
| Operating temperature range | ${ }^{\circ} \mathrm{C}$ | $-50 \ldots+50$ |
| Minimum bending radius by laying | mm | 225 |
| Rated outer diameter of the cable (for reference) ${ }^{* *}$ | mm | 30 |
| Cable weight (approximate) | $\mathrm{kg} / \mathrm{km}$ | 1930 |
| Rated factory cable length and gross weight of the delivery | $\mathrm{m}, \mathrm{t}$ | $\# 14: 700 \cdot 1.5$ |
| on the drums |  | $\# 16 \mathrm{a}: 1120 \cdot 2.4$ |

## 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. Copper conductor
2. XLPE insulation
3. PVC compound belt insulation
4. Low flammable PVC compound outer sheath

Note: conductor twisting is not illustrated

