



АПВБВнг 1х500-1 ТУ У 31.3-00214534-018-2003

Power cables with aluminium conductors, XLPE-insulated, galvanized steel-tape 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 small mechanical impacts on cable are possible, including tensile forces*

Manufacturing of cable with PVC compound belt insulation 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

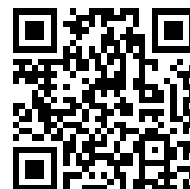
| | | |
|--|-----------------|-------------------------------------|
| Rated voltage | kV | 1 |
| Number and rated area of conductors | mm ² | 1 x 500 |
| Phase insulation thickness | mm | 2.2 |
| Permissible continuous current rating (AC of industrial frequency) * | | |
| • <i>by aerial laying</i> | A | 800 |
| • <i>by burial</i> | A | 599 |
| Permissible continuous current rating (DC) * | | |
| • <i>by aerial laying</i> | A | 1030 |
| • <i>by burial</i> | A | 949 |
| Maximum permissible conductor temperature | | |
| • <i>Continuous</i> | °C | +90 |
| • <i>in emergency operation</i> | °C | +130 |
| • <i>at short circuit</i> | °C | +250 |
| Operating temperature range | °C | -50 ... +50 |
| Minimum bending radius by laying | mm | 410 |
| Rated outer diameter of the cable (for reference) ** | mm | 41 |
| Cable weight (approximate) | kg/km | 2300 |
| Rated factory cable length and gross weight of the delivery on the drums *** | m, t | # 18: 660 • 2.0 # 20: 1050 • 3.1 |

Notes:

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

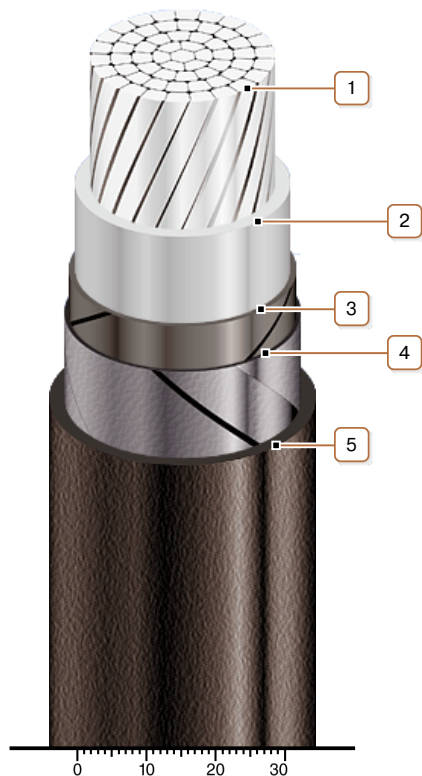
* Long permissible current loads are calculated for the following conditions: air temperature plus 25 °C, soil temperature plus 15 °C, thermal resistivity of soil 1.2 °K·m/W, laying depth in the soil 0.7 m

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



АПВБВнг 1х500-1 ТУ У 31.3-00214534-018-2003

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



CONSTRUCTION

1. Aluminium multiwire compacted conductor
2. XLPE insulation
3. Tape core wrapping
4. Double galvanized steel-tape armour
5. Low flammable PVC compound outer sheath