YUZHCABLE
PRODUCTION GUIDE

180101-111200200000

7, Autogennaya Str., Kharkov, 61099, Ukraine. Phone: (+38-057) 728-1244, 728-1241. Fax: (+38-057) 728-1243, (+38-0572) 946-830
E-mail: market@yuzhcable.com.ua

# АВБбШв 1х120-1
# ТУ У 31.3-00214534-048:2007

Power cables with aluminium conductors, with PVC-compound insulation, galvanized steel-tape armoured, with low-flammable PVC-compound protection hose

Cables are used for laying:
- *single laying*
- *in premises, dry ducts and tunnels, in corrosive environment*
- *in places, where small mechanical impacts on cable are possible, including tensile forces*

Manufacturing of non-galvanized armoured cable, covered with a layer of bitumen and PET film is possible
Manufacturing of cable with PVC compound belt insulation 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 | $mm^2$ | 1 x 120 |
| Phase insulation thikness | mm | 1.6 |
| Permissible continious current rating (AC of industrial frequency) * | | |
| • *by aerial laying* | A | 253 |
| • *by burial* | A | 252 |
| Permissible continious current rating (DC) * | | |
| • *by aerial laying* | A | 320 |
| • *by burial* | A | 388 |
| Maximum permissible conductor temperature | | |
| • *Continious* | ˚C | +70 |
| • *in emergency operation* | ˚C | +90 |
| • *at short circuit* | ˚C | +160 |
| Operating temperature range | ˚C | -50 ... +50 |
| Minimum bending radius by laying | mm | 250 |
| Rated outer diameter of the cable (for reference) ** | mm | 25 |
| Cable weight (approximate) | kg/km | 860 |
| Rated factory cable length and gross weight of the delivery on the drums *** | m, t | # 14: 930 • 1.0 |

*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 ˚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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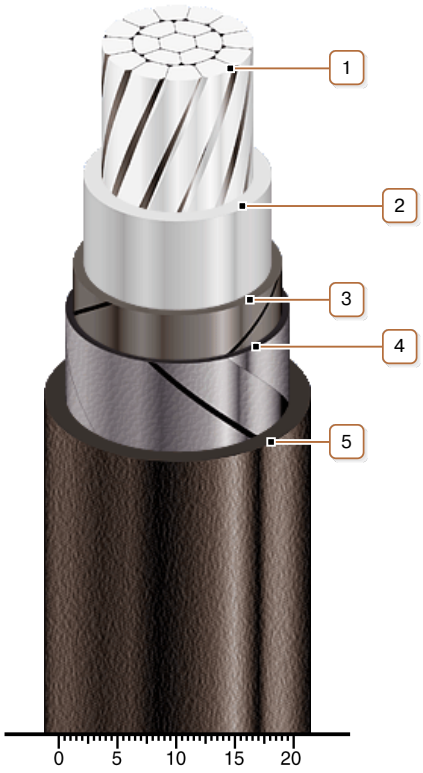


## CONSTRUCTION

1. *Aluminium multiwire compacted conductor*
2. *PVC compound insulation*
3. *Tape core wrapping*
4. *Double galvanized steel-tape armour*
5. *Pressed PVC compound protection hose*

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