7, Autogennaya Str., Kharkov, 61099, Ukraine. Phone: (+38-057) 728-1244, 728-1241. Fax: (+38-057) 728-1243, (+38-0572) 946-830
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180135-110500200000

# АПвВГнгд 1х50-1
# ТУ У 31.3-00214534-018-2003

Power cables with aluminium conductors, XLPE-insulated, with low fire-risk PVC-compound outer sheath

Cables are used for laying:
- *in bunches*
- *in premises, dry ducts and tunnels, in corrosive environment*
- *in bunches, in crowded places*

Fire safety code in accordance with ДСТУ 4809:2007: ПБ123121000
Products of this mark meet the requirements:
- *single wire cable flame retardance*
- *bunched cable flame retardance category A*
- *toxicity class Тк3 of the combustion products of nonmetallic elements (toxicity index over 120 g/m$^3$)*
- *class ДТк1 on smoke-forming ability by smouldering of non-metallic elements (coefficient of smoke formation from 50 to 500 m$^2$/kg)*
- *class ДПк2 on smoke-forming ability by combustion (minimum luminous flux more than 60 %)*
- *corrosive class Кк1 of combustion products of non-metallic elements (the number of halogen hydrides less than 150 mg/g, pH less than 4.3, specific conductivity more than 10 μS/mm)*

## TECHNICAL SPECIFICATIONS

| | | |
|---|---|---|
| Rated voltage | kV | 1 |
| Number and rated area of conductors | mm$^2$ | 1 x 50 |
| Phase insulation thikness | mm | 1 |
| Permissible continious current rating (AC of industrial frequency) * | | |
| • *by aerial laying* | A | 171 |
| • *by burial* | A | 161 |
| Permissible continious current rating (DC) * | | |
| • *by aerial laying* | A | 217 |
| • *by burial* | A | 251 |
| Maximum permissible conductor temperature | | |
| • *Continious* | ˚C | +90 |
| • *in emergency operation* | ˚C | +130 |
| • *at short circuit* | ˚C | +250 |
| Operating temperature range | ˚C | -50 ... +50 |
| Minimum bending radius by laying | mm | 150 |
| Rated outer diameter of the cable (for reference) ** | mm | 15 |
| Cable weight (approximate) | kg/km | 330 |
| Rated factory cable length and gross weight of the delivery on the drums *** | m, t | # 12: 1450 • 0.6 |

*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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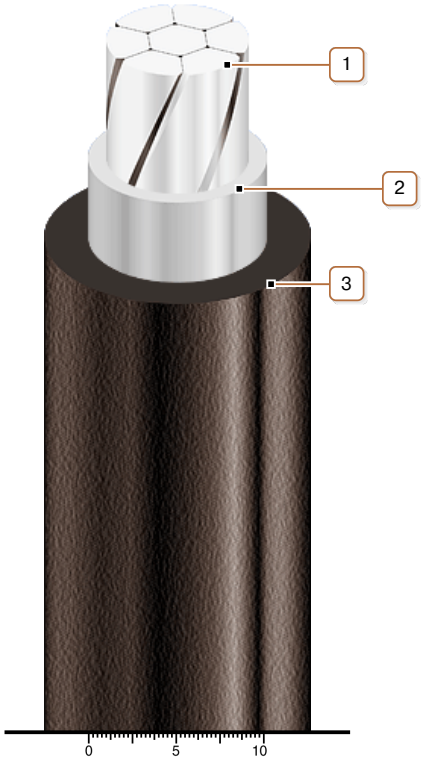


## CONSTRUCTION

*1. Aluminium multiwire compacted conductor*
*2. XLPE insulation*
*3. Low fire-risk PVC compound outer sheath*

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