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180129-130160110100

# ПвБВнгд 3х16+1х10-1
# ТУ У 31.3-00214534-018-2003

Power cables with copper conductors, XLPE-insulated, galvanized steel-tape armoured, 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 places, where small mechanical impacts on cable are possible, including tensile forces*
- *in bunches, in crowded places*

Manufacturing of cable with multiwire conductors (main and additional one) is possible

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$^2$ | 3 x 16 + 1 x 10 |
| Phase insulation thikness | mm | 0.7 |
| Permissible continious current rating (AC of industrial frequency) * | | |
| • *by aerial laying* | A | 104 |
| • *by burial* | A | 112 |
| 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 | 172.5 |
| Rated outer diameter of the cable (for reference) ** | mm | 23 |
| Cable weight (approximate) | kg/km | 1150 |
| Rated factory cable length and gross weight of the delivery on the drums *** | m, t | # 14: 1090 • 1.4 |

*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 °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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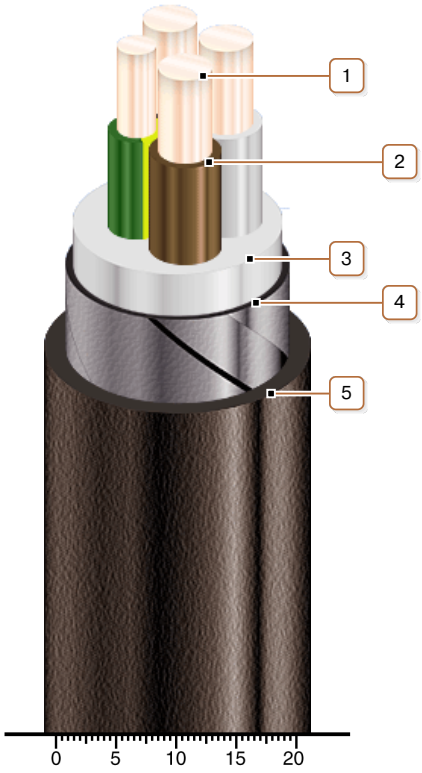


## CONSTRUCTION

1. *Copper conductor*
2. *XLPE insulation*
3. *Low fire-risk PVC-compound inner sheath*
4. *Double galvanized steel-tape armour*
5. *Low fire-risk PVC compound outer sheath*

*Note: Conductor twisting is not illustrated*

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