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180503-131500200500

# ВВГнгд-К 3х150/50-1
# ТУ У 31.3-00214534-048:2007

Power cables with copper conductors, with PVC compound insulation, with concentric conductor, 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*
- *in locations, where a high level of electrical protection is required*

It is possible to manufacture armoured cable

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 150 |
| Nominal cross-section area of concentric conductor | mm$^2$ | 50 |
| Phase insulation thikness | mm | 1.8 |
| Permissible continious current rating (AC of industrial frequency) * | | |
| • *by aerial laying* | A | 346 |
| • *by burial* | A | 358 |
| Maximum permissible conductor temperature | | |
| • *Continious* | ˚C | +70 |
| • *at short circuit* | ˚C | +130 |
| Operating temperature range | ˚C | -50 ... +50 |
| Minimum bending radius by laying | mm | 360 |
| Rated outer diameter of the cable (for reference) ** | mm | 48 |
| Cable weight (approximate) | kg/km | 5830 |
| Rated factory cable length and gross weight of the delivery on the drums *** | m, t | # 18: 500 • 3.4<br># 20: 800 • 5.3 |

*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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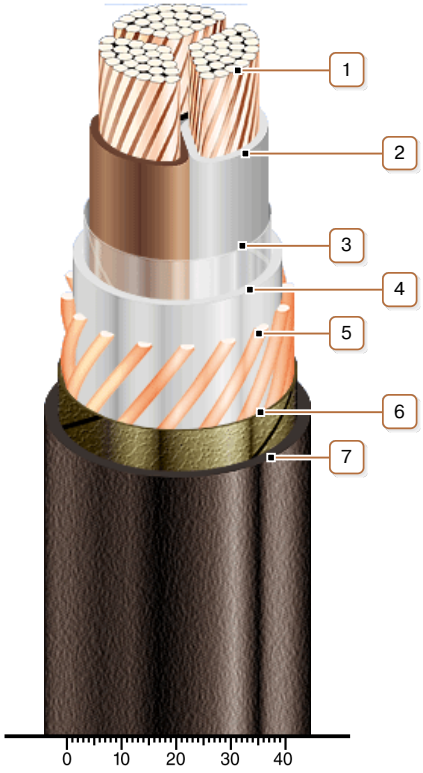


## CONSTRUCTION

1. *Copper multiwire compact conductor*
2. *Low fire-risk PVC compound insulation*
3. *PET film winding*
4. *Low fire-risk PVC-compound inner sheath*
5. *Concentric copper conductor*
6. *Lapping layer of nonwoven cloth tape*
7. *Low fire-risk PVC compound outer sheath*

*Note: Conductor twisting is not illustrated*

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