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ВВГнгд-К 3x70/50-1 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 Tk3 of the combustion products of nonmetallic elements (toxicity index over 120 g/m³)

• class $\[mu]T\kappa 1$ on smoke-forming ability by smouldering of non-metallic elements (coefficient of smoke formation from 50 to 500 m²/kg)

• class ДΠκ2 on smoke-forming ability by combustion (minimum luminous flux more than 60 %)

• corrosive class K κ 1 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 μ S/mm)

TECHNICAL SPECIFICATIONS

| Rated voltage | kV | 1 |
|---|-------|------------------|
| Number and rated area of conductors | mm² | 3 x 70 |
| Nominal cross-section area of concentric conductor | mm² | 50 |
| Phase insulation thikness | mm | 1.4 |
| Permissible continious current rating (AC of industrial frequence | cy) * | |
| • by aerial laying | А | 211 |
| • by burial | Α | 231 |
| Maximum permissible conductor temperature | | |
| Continious | °C | +70 |
| at short circuit | °C | +130 |
| Operating temperature range | °C | -50 +50 |
| Minimum bending radius by laying | mm | 292.5 |
| Rated outer diameter of the cable (for reference) ** | mm | 39 |
| Cable weight (approximate) | kg/km | 3240 |
| Rated factory cable length and gross weight of the delivery | m, t | # 16a: 630 • 2.3 |
| on the drums *** | | # 18: 720 • 2.8 |
| Notes: | | |

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 \cdot m/W, laying depth in the soil 0.7 m

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



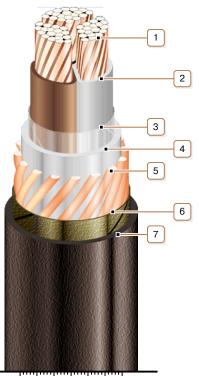


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CONSTRUCTION

- 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

0 10 20 30