





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

ВВГнгд-К 3х95/35-1 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 $\Pi T \kappa 1$ 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 $K\kappa 1$ 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 95 |
| Nominal cross-section area of concentric conductor | mm² | 35 |
| Phase insulation thikness | mm | 1.6 |
| Permissible continious current rating (AC of industrial frequency |) * | |
| • by aerial laying | Α | 261 |
| • by burial | А | 279 |
| Maximum permissible conductor temperature | | |
| Continious | °C | +70 |
| • at short circuit | °C | +130 |
| Operating temperature range | °C | -50 +50 |
| Minimum bending radius by laying | mm | 307.5 |
| Rated outer diameter of the cable (for reference) ** | mm | 41 |
| Cable weight (approximate) | kg/km | 3980 |
| Rated factory cable length and gross weight of the delivery | m, t | # 16a: 570 • 2.5 |
| on the drums *** | | # 18: 660 • 3.1 |
| | | # 20: 1050 • 4.8 |

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 \pm 10 %



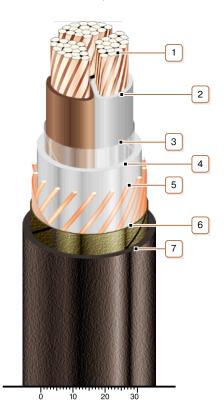




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CONSTRUCTION

- 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