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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180503-130500100350

ВВГнгд-К 3х50/35-1
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 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 50
Nominal cross-section area of concentric conductor	mm^2	35
Phase insulation thikness	mm	1.4
Permissible continious current rating (AC of industrial frequency) *		
- *by aerial laying*	A	167
- *by burial*	A	187
Maximum permissible conductor temperature		
- *Continious*	˚C	+70
- *at short circuit*	˚C	+130
Operating temperature range	˚C	-50 ... +50
Minimum bending radius by laying	mm	262.5
Rated outer diameter of the cable (for reference) **	mm	35
Cable weight (approximate)	kg/km	2580
Rated factory cable length and gross weight of the delivery on the drums ***	m, t	# 16a: 780 • 2.3 # 18: 890 • 2.8

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 ± 10 %*

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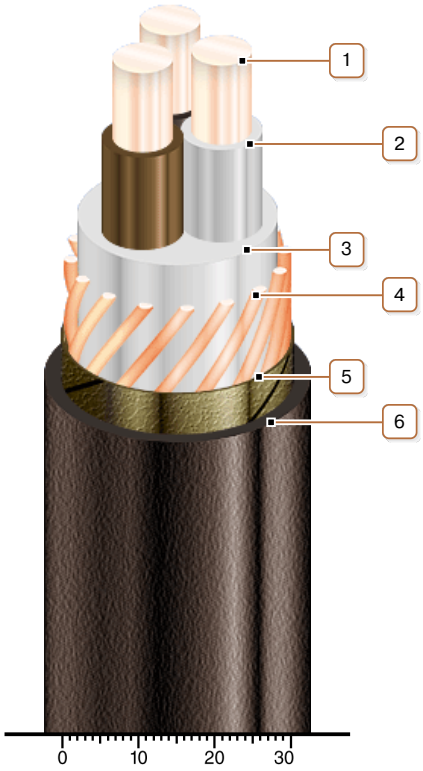

CONSTRUCTION

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

Note: Conductor twisting is not illustrated

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