180503-130350100160

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ВВГнгд-К 3х35/16-1
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/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 35
Nominal cross-section area of concentric conductor	mm^2	16
Phase insulation thikness	mm	1.2
Permissible continious current rating (AC of industrial frequency) *		
• *by aerial laying*	A	137
• *by burial*	A	158
Maximum permissible conductor temperature		
• *Continious*	˚C	+70
• *at short circuit*	˚C	+130
Operating temperature range	˚C	-50 … +50
Minimum bending radius by laying	mm	232.5
Rated outer diameter of the cable (for reference) **	mm	31
Cable weight (approximate)	kg/km	1860
Rated factory cable length and gross weight of the delivery on the drums	m, t	# 14: 610 • 1.3 # 16a: 990 • 2.1

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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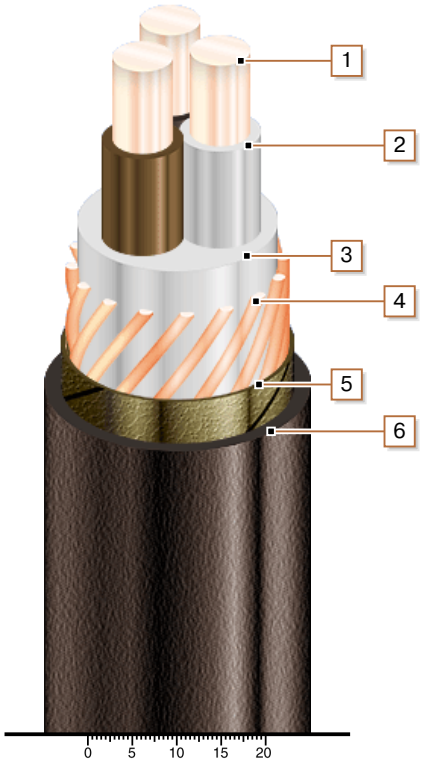

CONSTRUCTION

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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