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ВВГнгд-К 4x50/35-1 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 $\[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	4 x 50
Nominal cross-section area of concentric conductor	mm²	35
Phase insulation thikness	mm	1.4
Permissible continious current rating (AC of industrial frequen	су) *	
• by aerial laying	A	155
• by burial	A	173
Maximum permissible conductor temperature		
Continious	°C	+70
at short circuit	°C	+130
Operating temperature range	°C	-50 +50
Minimum bending radius by laying	mm	285
Rated outer diameter of the cable (for reference) **	mm	38
Cable weight (approximate)	kg/km	3270
Rated factory cable length and gross weight of the delivery	m, t	# 16a: 700 • 2.5
on the drums ***		# 18: 800 • 3.1
Notes:		

When ordering it is neccesary to agree the factory length of the product with the manufacturer

* Long permissible current loads are calculated during operation in four-wire networks with load in all the conductors 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 ± 10 %



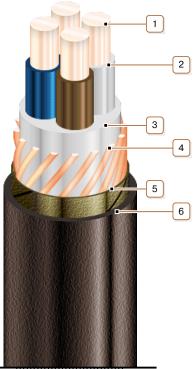


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CONSTRUCTION

- 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

0 10 20 30