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ВВГнгд-К 3х120/50-1 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: ΠБ123121000

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 120
Nominal cross-section area of concentric conductor	mm²	50
Phase insulation thikness	mm	1.6
Permissible continious current rating (AC of industrial frequency) *	
• by aerial laying	Α	302
• by burial	А	317
Maximum permissible conductor temperature		
Continious	°C	+70
• at short circuit	°C	+130
Operating temperature range	°C	-50 +50
Minimum bending radius by laying	mm	337.5
Rated outer diameter of the cable (for reference) **	mm	45
Cable weight (approximate)	kg/km	4890
Rated factory cable length and gross weight of the delivery	m, t	# 16a: 480 • 2.6
on the drums ***		# 18: 550 • 3.1
		# 20: 870 • 4.9

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 %



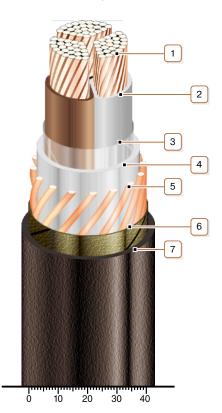




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CONSTRUCTION

- 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