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ВВГнг-К 3x120/50-1 ТУ У 31.3-00214534-048:2007

Power cables with copper conductors, with PVC compound insulation, with concentric conductor, with low-flammable PVC-compound protection hose

Cables are used for laying:

- · in bunches
- in premises, dry ducts and tunnels, in corrosive environment
- · 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: ΠБ120000000

Products of this mark meet the requirements:

- · single wire cable flame retardance
- · bunched cable flame retardance category A

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	Α	317
Maximum permissible conductor temperature		
Continious	°C	+70
• at short circuit	°C	+160
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 %



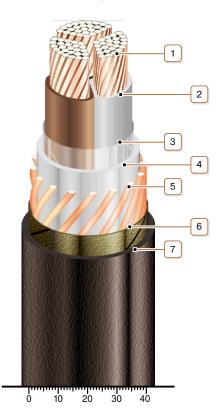




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CONSTRUCTION

- 1. Copper multiwire compact conductor
- 2. PVC compound insulation
- 3. PET film winding
- 4. PVC compound belt insulation
- 5. Concentric copper conductor
- 6. Lapping layer of nonwoven cloth tape
- 7. Low flammable PVC compound outer sheath

Note: Conductor twisting is not illustrated