



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: ПБ120000000

Products of this mark meet the requirements:

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

TECHNICAL SPECIFICATIONS

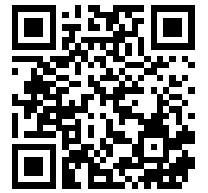
Rated voltage	kV	1
Number and rated area of conductors	mm ²	3 x 120
Nominal cross-section area of concentric conductor	mm ²	50
Phase insulation thickness	mm	1.6
Permissible continuous current rating (AC of industrial frequency) *		
• <i>by aerial laying</i>	A	302
• <i>by burial</i>	A	317
Maximum permissible conductor temperature		
• <i>Continuous</i>	°C	+70
• <i>at short circuit</i>	°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 on the drums ***	m, t	# 16a: 480 • 2.6 # 18: 550 • 3.1 # 20: 870 • 4.9

Notes:

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

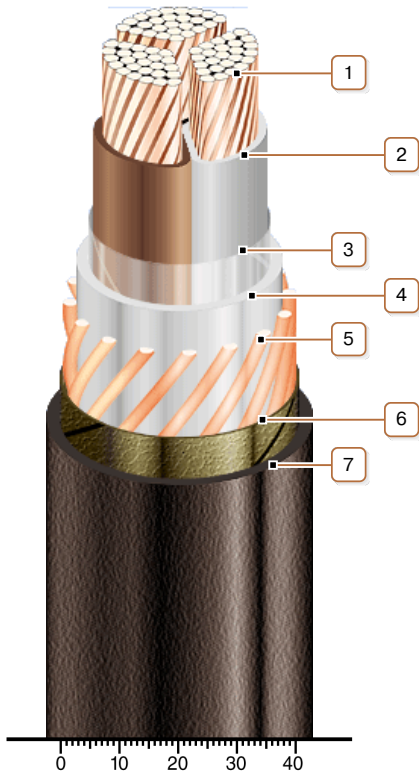
** Long permissible current loads are calculated for the following conditions: air temperature plus 25 °C, soil temperature plus 15 °C, thermal resistivity of soil 1.2 °K·m/W, laying depth in the soil 0.7 m*

*** The external diameter may differ from the rated up to ± 10 %*



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CONSTRUCTION

1. *Copper 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