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ПБбПнг-НF 5x70-1 ТУ У 31.3-00214534-069:2011



Power cables with copper conductors, with halogen-free polymer compound insulation, galvanized steel-tape armoured, with polymer compound outer sheath, flame-retardant, halogen-free

Cables are used for laying:

• in places, where small mechanical impacts on cable are possible, including tensile forces

• power supply cable lines of NPP electric equipment, wiring in office premises , which are computerized and intelligent, in kindergartens, schools, hospitals and for cable lines of spectating complexes and sport structures

Fire safety code in accordance with ДСТУ 4809:2007: ΠБ123122000 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 Kk2 of combustion products of non-metallic elements (the number of halogen hydrides less than 150 mg/g, pH more than 4.3, specific conductivity less than 10 μ S/mm)

TECHNICAL SPECIFICATIONS

Rated voltage	kV	1
Number and rated area of conductors	mm²	5 x 70
Phase insulation thikness	mm	1.4
Permissible continious current rating (AC of industrial frequency	() *	
• by aerial laying	А	196
Maximum permissible conductor temperature		
Continious	°C	+70
in emergency operation	°C	+90
at short circuit	°C	+160
Operating temperature range	°C	-50 +50
Minimum bending radius by laying	mm	330
Rated outer diameter of the cable (for reference) **	mm	44
Cable weight (approximate)	kg/km	4860
Rated factory cable length and gross weight of the delivery	m, t	# 16a: 520 • 2.8
on the drums ***		# 18: 600 • 3.4
		# 20: 960 • 5.3

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 $\% \cdot m/W$, laying depth in the soil 0.7 m

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



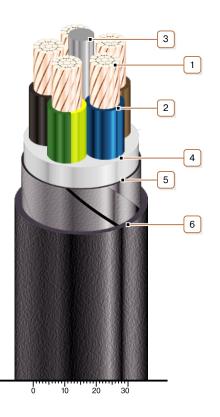


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CONSTRUCTION

- 1. Copper multiwire compact conductor
- 2. Halogen-free polymer compound insulation
- 3. PVC compound bundle
- 4. Halogen-free polymer compound inner sheath
- 5. Double galvanized steel-tape armour
- 6. Polymer compound outer sheath:flame-retardant and halogen-free

Note: Conductor twisting is not illustrated