

ПВБ6Пнг-FRHF 5x10-1 ТУ У 31.3-00214534-069:2011

Fire-resistant power cables with copper conductors, XLPE-insulated, galvanized steel-tape armoured, with polymer compound outer sheath, flame-retardant, halogen-free

Cables are used for laying:

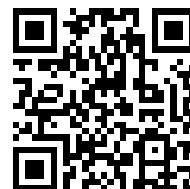
- *in places, where small mechanical impacts on cable are possible, including tensile forces*
- *power supply cable lines of NPP electric equipment, wiring in office premises, which are computerized and intelligent, in kindergartens, schools, hospitals and for cable lines of spectating complexes and sport structures*
- *power supply cable lines of NPP safety system equipment, circuits wiring of fire safety systems (fire alarm circuits, power supply of fire-fighting pumps, lightning of emergency exits and evacuation routes, smoke exhaust and blowing ventilation systems, evacuation elevators); for wiring in hospital surgical wings, emergency and equipment (current collectors) power supply circuits, operating in a fire emergency*

Manufacturing of extruded fire-resistant barrier is possible

Fire safety code in accordance with ДСТУ 4809:2007: ПБ123122580

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 ДТк1 on smoke-forming ability by smouldering of non-metallic elements (coefficient of smoke formation from 50 to 500 m²/kg)*
- *class ДПк2 on smoke-forming ability by combustion (minimum luminous flux more than 60 %)*
- *corrosive class Kк2 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 μS/mm)*
- *flame-resistant class Ex90 under fire conditions at standard temperature conditions ДСТУ Б В. 1. 1-4*
- *flame-resistant class FE180 under fire conditions with a temperature not less than 750 °C*



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TECHNICAL SPECIFICATIONS

Rated voltage	kV	1
Number and rated area of conductors	mm ²	5 x 10
Phase insulation thickness	mm	0.7
Permissible continuous current rating (AC of industrial frequency) *		
• by aerial laying	A	72
Maximum permissible conductor temperature		
• Continuous	°C	+90
• in emergency operation	°C	+130
• at short circuit	°C	+250
Operating temperature range	°C	-50 ... +50
Minimum bending radius by laying	mm	195
Rated outer diameter of the cable (for reference) **	mm	26
Cable weight (approximate)	kg/km	1220
Rated factory cable length and gross weight of the delivery on the drums ***	m, t	# 14: 930 • 1.3

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 %

CONSTRUCTION

1. Copper conductor
2. Fire-resistant barrier
Note: Manufacturing of extruded fire-resistant barrier is possible
3. XLPE insulation
4. PVC compound bundle
5. Halogen-free polymer compound inner sheath
6. Double galvanized steel-tape armour
7. Polymer compound outer sheath: flame-retardant and halogen-free

Note: Conductor twisting is not illustrated

