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# 80121-120250100000



## ПвБбПнг-FRHF 2x25-1 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 cable with multiwire conductors is possible 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/m<sup>3</sup>)

• class  $\[mu]T\kappa 1$  on smoke-forming ability by smouldering of non-metallic elements (coefficient of smoke formation from 50 to 500 m<sup>2</sup>/kg)

• class ДПк2 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  $\mu$ S/mm)

• flame-resistant class Ex90 under fire conditions at standard temperature conditions ДСТУ Б В.1.1-4

 $\cdot$  flame-resistant class FE180 under fire conditions with a temperature not less than 750  $^\circ \! C$ 





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#### **TECHNICAL SPECIFICATIONS**

Rated voltage	kV	1
Number and rated area of conductors	mm²	2 x 25
Phase insulation thikness	mm	0.9
Permissible continious current rating (AC of industrial frequence	cy) *	
• by aerial laying	А	141
Maximum permissible conductor temperature		
Continious	°C	+90
in emergency operation	°C	+130
at short circuit	°C	+250
Operating temperature range	C°	-50 +50
Minimum bending radius by laying	mm	202.5
Rated outer diameter of the cable (for reference) **	mm	27
Cable weight (approximate)	kg/km	1310
Rated factory cable length and gross weight of the delivery	m, t	# 14: 800 • 1.2
on the drums ***		

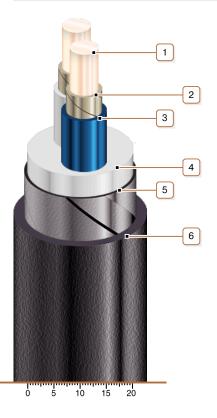
Notes:

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 %



#### **CONSTRUCTION**

- 1. Copper conductor
- 2. Fire-resistant barrier

Note: Manufacturing of extruded fire-resistant barrier is possible

3. XLPE insulation

- 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