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ПвБбПнг-FRHF 4x185-1 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: ΠБ123122580

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^3)

• 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)

• 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 $^\circ\!C$





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TECHNICAL SPECIFICATIONS

Rated voltage	kV	1
Number and rated area of conductors	mm²	4 x 185
Phase insulation thikness	mm	1.6
Permissible continious current rating (AC of industrial frequency	y) *	
• by aerial laying	А	468
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	412.5
Rated outer diameter of the cable (for reference) **	mm	55
Cable weight (approximate)	kg/km	8920
Rated factory cable length and gross weight of the delivery	m, t	# 18: 370 • 3.8
on the drums ***		# 20: 590 • 5.9
Notes:		

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

* Long permissible current loads are calculated during operation in four-wire networks with load in all the conductors for the following conditions: air temperature plus 25 °C, soil temperature plus 15 °C, thermal resistivity of soil 1.2 °K \cdot m/W, laying depth in the soil 0.7 m ** The external diameter may differ from the rated up to ± 10 %

CONSTRUCTION

- 1. Copper multiwire compact 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