



## **КПВПГЭнг-FRHF 7х1 ТУ У 31.3-00214534-069:2011**

Control flame-resistant screened halogen-free cables with copper conductors, XLPE, polymer compound sheath

Cables are used for laying:

- *in premises, dry ducts and tunnels, in corrosive environment*
- *with no risk of mechanical damage in operation*
- *in bunches*
- *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*
- *with the need to protect from the effects of external electric fields*

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 ДТк1 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 Кк2 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 (AC / DC)	V	660 / 1000
Number and rated area of conductors	mm <sup>2</sup>	7 x 1
Minimum bending radius by laying	mm	108
Cable outer diameter (for reference only) **	mm	18
Cable weight (approximate)	kg/km	410
Rated factory cable length and gross weight of the delivery on the drums ***	m, t	# 12: 1010 • 0.5

Notes:

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

\*\* 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. Copper screen
6. Polymer compound outer sheath: flame-retardant and halogen-free

*Note: Conductor twisting is not illustrated*

