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# ПвВГнгд-FR 2x10-1 ТУ У 31.3-00214534-055:2006



Fire resistant power cables with copper conductors, XLPE-insulated, with low fire-risk PVC-compound outer sheath

Cables are used for laying:

- in bunches
- in premises, dry ducts and tunnels, in corrosive environment
- in bunches, in crowded places

• 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: ПБ123121080

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  $\prod \kappa 1$  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 %)
- $\cdot$  corrosive class Kx1 of combustion products of non-metallic elements (the number of halogen hydrides less
- than 150 mg/g, pH less than 4.3, specific conductivity more than 10  $\mu$ S/mm)
- 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	mm²	2 x 10
Phase insulation thikness	mm	0.7
Permissible continious current rating (AC of industrial frequency) *	r	
• by aerial laying	А	78
• by burial	А	86
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	135
Rated outer diameter of the cable (for reference) **	mm	18
Cable weight (approximate)	kg/km	460
Rated factory cable length and gross weight of the delivery	m, t	# 12: 1010 · 0.6
on the drums ***		

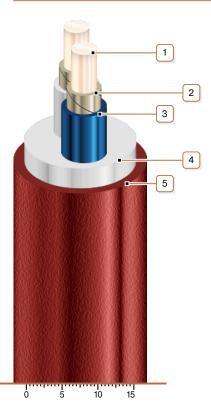
Notes:

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  $^{\circ}\!K\!\cdot\!m\!/W,$  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. Low fire-risk PVC-compound inner sheath
- 5. Low fire-risk PVC compound outer sheath

Note: Conductor twisting is not illustrated