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ВВГнгд-FR 4x16-1 ТУ У 31.3-00214534-055:2006



Fire-resistant power cables with copper conductors, with low fire-risk PVC-compound insulation, 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 cable with multiwire conductors is possible 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/m³)

• class $\mbox{$\Pir}$ 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 Kκ1 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 μ S/mm)

flame-resistant class FE180 under fire conditions with a temperature not less than 750 °C





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TECHNICAL SPECIFICATIONS

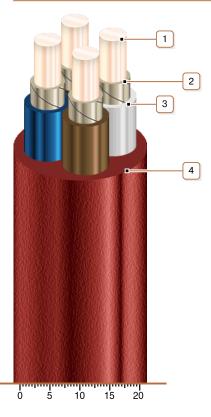
Rated voltage	kV	1
Number and rated area of conductors	mm²	4 x 16
Phase insulation thikness	mm	1
Permissible continious current rating (AC of industrial frequency) *		
• by aerial laying	А	78
• by burial	А	94
Maximum permissible conductor temperature		
Continious	°C	+70
in emergency operation	°C	+80
at short circuit	°C	+250
Operating temperature range	°C	-50 +50
Minimum bending radius by laying	mm	172.5
Rated outer diameter of the cable (for reference) **	mm	23
Cable weight (approximate)	kg/km	1080
Rated factory cable length and gross weight of the delivery	m, t	# 14: 1090 • 1.4
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 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 \pm 10 %



CONSTRUCTION

1. Copper conductor

2. Fire-resistant barrier Note: Manufacturing of extruded fire-resistant barrier is possible

3. Low fire-risk PVC compound insulation

4. Low fire-risk PVC compound outer sheath

Note: Conductor twisting is not illustrated