7, Autogennaya Str., Kharkov, 61099, Ukraine. Phone: (+38-057) 728-1244, 728-1241. Fax: (+38-057) 728-1243, (+38-0572) 946-830
E-mail: market@yuzhcable.com.ua

180140-130100100000

ППГнг-FRHF 3х10-1
ТУ У 31.3-00214534-069:2011

Fire resistant power cables with copper conductors, with halogen-free polymer compound insulation, with polymer compound outer sheath, flame-retardant, halogen-free

Cables are used for laying:

- *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: ПБ123122580
Products of this mark meet the requirements:

- *single wire cable flame retardance*
- *bunched cable flame retardance category A*
- *toxicity class Тк3 of the combustion products of nonmetallic elements (toxicity index over 120 g/m^3)*
- *class ДТк1 on smoke-forming ability by smouldering of non-metallic elements (coefficient of smoke formation from 50 to 500 m^2/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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Fire resistant power cables with copper conductors, with halogen-free polymer compound insulation, with polymer compound outer sheath, flame-retardant, halogen-free

TECHNICAL SPECIFICATIONS

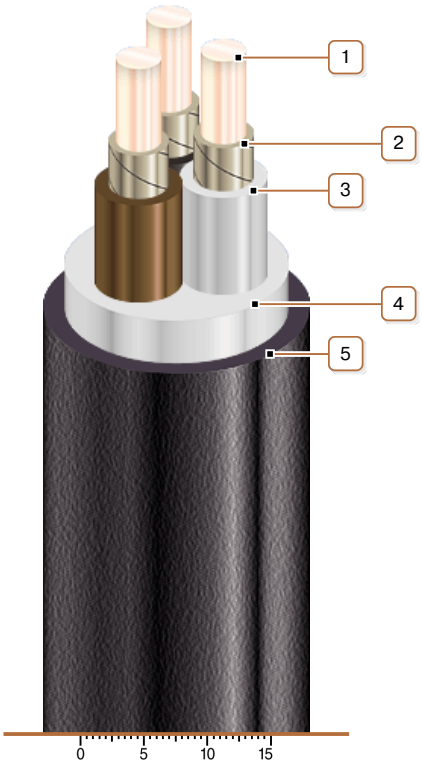
Rated voltage	kV	1
Number and rated area of conductors	mm^2	3 x 10
Phase insulation thikness	mm	1
Permissible continious current rating (AC of industrial frequency) *		
• *by aerial laying*	A	63
Maximum permissible conductor temperature		
• *Continious*	˚C	+70
• *in emergency operation*	˚C	+90
• *at short circuit*	˚C	+250
Operating temperature range	˚C	-50 ... +50
Minimum bending radius by laying	mm	165
Rated outer diameter of the cable (for reference) **	mm	22
Cable weight (approximate)	kg/km	760
Rated factory cable length and gross weight of the delivery on the drums ***	m, t	# 14: 1300 • 1.2

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 ± 10 %*



CONSTRUCTION

1. Copper conductor

2. Fire-resistant barrier

Note: Manufacturing of extruded fire-resistant barrier is possible

3. Halogen-free polymer compound insulation

4. Halogen-free polymer compound inner sheath

5. Polymer compound outer sheath:flame-retardant and halogen-free

Note: Conductor twisting is not illustrated

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