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180119-130250100000

# ПБбПнг-FRHF 3х25-1
# ТУ У 31.3-00214534-069:2012

Fire-resistant power cables with copper conductors, with halogen-free polymer compound insulation, 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 cable with multiwire conductors is possible
Manufacturing of extruded fire-resistant barrier is possible

Fire safety code in accordance with ДСТУ 4809:2007: ПБ123122080
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 FE180 under fire conditions with a temperature not less than 750 °C*

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# ПБбПнг-FRHF 3х25-1
# ТУ У 31.3-00214534-069:2012

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

## TECHNICAL SPECIFICATIONS

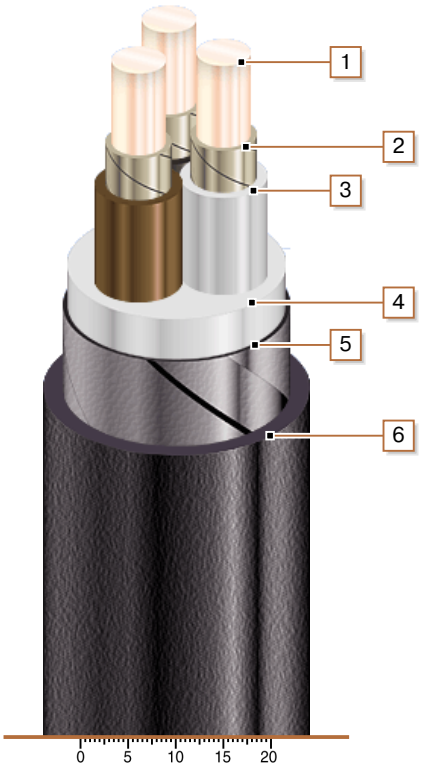
| | | |
|---|---|---|
| Rated voltage | kV | 1 |
| Number and rated area of conductors | $mm^2$ | 3 x 25 |
| Phase insulation thikness | mm | 1.2 |
| Permissible continious current rating (AC of industrial frequency) * | | |
| • *by aerial laying* | A | 112 |
| Maximum permissible conductor temperature | | |
| • *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 | 217.5 |
| Rated outer diameter of the cable (for reference) ** | mm | 29 |
| Cable weight (approximate) | kg/km | 1710 |
| Rated factory cable length and gross weight of the delivery on the drums | m, t | # 14: 700 • 1.4 |

*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*
3. *Halogen-free polymer compound insulation*
4. *Halogen-free polymer compound inner sheath*
5. *Double galvanized steel-tape armour*
6. *Polymer compound outer sheath:flame-retardant and halogen-free*

*Note: conductor twisting is not illustrated*

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