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# КПоЭПЭнг-FRHF 5x2.5 ТУ У 27.3-00214534-084:2016

Fire resistant control cables with copper conductors, with insulation made of halogen-free cross-linked polymer composition, sheathed with halogen-free polymer composition, with screened cores and collective screen

For the cable of this mark correspond the foreign-made analogues:

КПоЭПЭнг-FRHF (RU)

Used:

• for transmission of electrical signals, and distribution of electric energy in stationary electrical equipment for alternating voltages up to 660 V frequency up to 100 Hz, and DC voltage up to 1000 V, inside and outside the hermetic zone of nuclear power stations (NPS)

• for multi-cable installation (acc. GOST 31565:2012) in cable channels and premises of internal electrical installations

• for use in systems having security class 2(A), 3(B), 3(C), and 4 according to the classification of  $H\Pi$ 306.2.141-2008 and HIT 306.2.202-2015

Fire safety code in accordance with ДСТУ 4809:2007: ПБ123122050 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  $120 \text{ g/m}^3$ )

 class ДТк1 on smoke-forming ability by smouldering of non-metallic elements (coefficient of smoke formation from 50 to 500  $m^2/kg$ )

class ДΠκ2 on smoke-forming ability by combustion (minimum luminous flux more than 60 %)

• corrosive class Kk2 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  $\mu$ S/mm)

• flame-resistant class FE90 under fire conditions with a temperature not less than 750 °C





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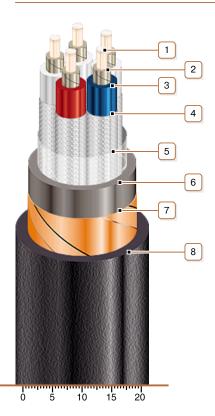
#### **TECHNICAL SPECIFICATIONS**

Rated AC voltage of no more than 100 Hz	V	660	
Rated DC voltage	V	1000	
Number and rated diameter of conductors	mm²	5 x 2.5	
Operating temperature range	D°	-50 +60	
Permissible continious conductors temperature	C°	+90	
Minimum bending radius by laying	mm	135	
Cable outer diameter (for reference only) **	mm	22.5	
Cable weight (approximate)	kg/km	758	
Notes <sup>,</sup>			

Notes:

When ordering it is neccesary 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
- *3. Insulation of cross-linked halogen-free polymer composition or cross-linked polyethylene*
- 4. Insulation screen tinned copper or copper wires braid
- 5. Wrapping the core with polyethylene terephthalate film
- 6. Halogen-free polymer compound inner sheath
- 7. Collective screen of copper tapes
- 8. Outer sheath of flame-retardant halogen-free polymer composition