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

453002-010010000250

КПоПЭнг-FRHF 10х2.5
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 collective screen

For the cable of this mark correspond the foreign-made analogues:
КПоПЭнг-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 НП 306.2.141-2008 and НП 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 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 FE90 under fire conditions with a temperature not less than 750 °C*

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TECHNICAL SPECIFICATIONS

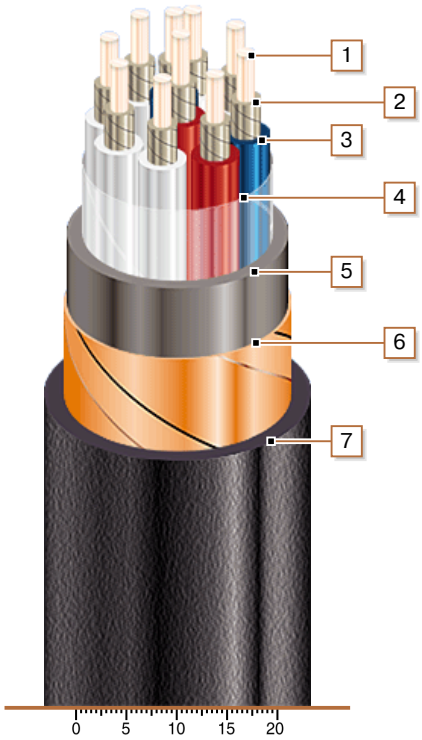
Rated AC voltage of no more than 100 Hz	V	660
Rated DC voltage	V	1000
Number and rated diameter of conductors	mm^2	10 x 2.5
Operating temperature range	˚C	-50 ... +60
Permissible continious conductors temperature	˚C	+90
Minimum bending radius by laying	mm	165
Cable outer diameter (for reference only) **	mm	27.4
Cable weight (approximate)	kg/km	933

Notes:

XLPE-insulated cables can also be manufactured

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 ± 10 %*



CONSTRUCTION

1. *Copper conductor*
2. *Fire-resistant barrier*
3. *Insulation of cross-linked halogen-free polymer composition or cross-linked polyethylene*
4. *Wrapping the core with polyethylene terephthalate film*
5. *Halogen-free polymer compound inner sheath*
6. *Collective screen of copper tapes*
7. *Outer sheath of flame-retardant halogen-free polymer composition*

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