YUZHCABLE
PRODUCTION GUIDE

180139-150500100000

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ПвПГнг-HF 5х50-1
ТУ У 31.3-00214534-069:2011

Power cables with copper conductors, XLPE-insulated, 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*

Manufacturing of cable with multiwire conductors is possible

Fire safety code in accordance with ДСТУ 4809:2007: ПБ123122000
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/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)*

TECHNICAL SPECIFICATIONS

Rated voltage	kV	1
Number and rated area of conductors	mm^2	5 x 50
Phase insulation thikness	mm	1
Permissible continious current rating (AC of industrial frequency) *		
• *by aerial laying*	A	194
Maximum permissible conductor temperature		
• *Continious*	°C	+90
• *in emergency operation*	°C	+130
• *at short circuit*	°C	+250
Operating temperature range	°C	-50 ... +50
Minimum bending radius by laying	mm	247.5
Rated outer diameter of the cable (for reference) **	mm	33
Cable weight (approximate)	kg/km	2770
Rated factory cable length and gross weight of the delivery on the drums ***	m, t	# 14: 540 • 1.7 # 16a: 870 • 2.7 # 18: 1000 • 3.2

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 %*

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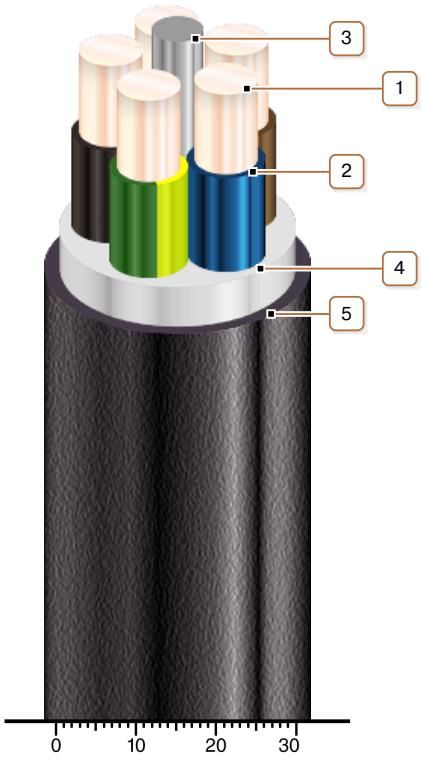

CONSTRUCTION

1. *Copper conductor*
2. *XLPE insulation*
3. *PVC compound bundle*
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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