7, Autogennaya Str., Kharkov, 61099, Ukraine. Phone: (+38-057) 728-1244, 728-1241. Fax: (+38-057) 728-1243, (+38-0572) 946-830
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180122-141200200000

ПвБбПнг-HF 4х120-1
ТУ У 31.3-00214534-069:2012

Power cables with copper conductors, XLPE-insulated, 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*

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 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)*

TECHNICAL SPECIFICATIONS

Rated voltage	kV	1
Number and rated area of conductors	mm^2	4 x 120
Phase insulation thikness	mm	1.2
Permissible continious current rating (AC of industrial frequency) *		
• *by aerial laying*	A	354
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	322.5
Rated outer diameter of the cable (for reference) **	mm	43
Cable weight (approximate)	kg/km	5670
Rated factory cable length and gross weight of the delivery on the drums	m, t	# 16a: 520 • 3.2 # 18: 600 • 3.9 # 20: 960 • 6.1

Notes:

When ordering it is neccesary to agree the factory length of the product with the manufacturer

** Long permissible current loads are calculated during operation in four-wire networks with load in all the conductors 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 %*

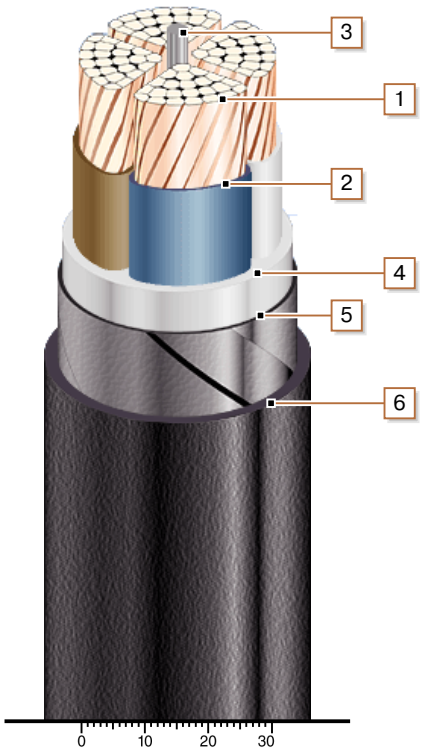
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CONSTRUCTION

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