



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

## АПвБВнгд 3х10 (ож)-1 ТУ У 31.3-00214534-018-2003

Power cables with aluminium conductors, XLPE-insulated, galvanized steel-tape armoured, with low fire-risk PVC-compound outer sheath

Cables are used for laying:

- in bunches
- in premises, dry ducts and tunnels, in corrosive environment
- in places, where small mechanical impacts on cable are possible, including tensile forces
- · in bunches, in crowded places

Fire safety code in accordance with ДСТУ 4809:2007: ΠБ123121000

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<sup>3</sup>)

 class ДTκ1 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 Kκ1 of combustion products of non-metallic elements (the number of halogen hydrides less than 150 mg/g, pH less than 4.3, specific conductivity more than 10  $\mu$ S/mm)

### **TECHNICAL SPECIFICATIONS**

Rated voltage	kV	1
Number and rated area of conductors	mm²	3 x 10
Phase insulation thikness	mm	0.7
Permissible continious current rating (AC of industrial frequency)	*	
• by aerial laying	А	58
• by burial	А	67
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	157.5
Rated outer diameter of the cable (for reference) **	mm	21
Cable weight (approximate)	kg/km	560
Rated factory cable length and gross weight of the delivery	m, t	# 14: 1300 • 0.9
on the drums ***		
A1-1		

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  $\pm$  10 %

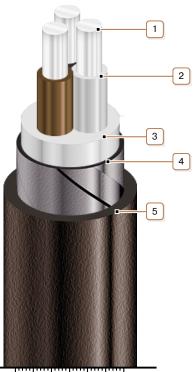




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### CONSTRUCTION

- 1. Aluminium conductor
- 2. XLPE insulation
- 3. Low fire-risk PVC-compound inner sheath
- 4. Double galvanized steel-tape armour
- 5. Low fire-risk PVC compound outer sheath

Note: Conductor twisting is not illustrated

0 5 10 15