





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

## ЦААБнлШнгд 3x70-10 ТУ У 27.3-00214534-091:2017

Power cables with aluminium conductors, with non-draining impregnated paper insulation, aluminium-sheathed, steel-tape armoured, with low-flammable PVC-compound protection hose

Cables are used for laying:

- · without level difference limitation
- · in fire-risk premises
- · on technological trestles
- with a risk of mechanical damage and no tensile forces in operation
- at sites, where low smoke and gas emission are required in the process of combustion and smouldering: NPP, electrical generating stations, subway, high-rise buildings, large industrial facilities and etc.

Fire safety code in accordance with ДСТУ 4809:2007:  $\Pi E 123121000$ 

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/m3)
- class  $\Pi T \kappa 1$  on smoke-forming ability by smouldering of non-metallic elements (coefficient of smoke formation from 50 to 500 m<sup>2</sup>/kg)
- class ДΠκ2 on smoke-forming ability by combustion (minimum luminous flux more than 60 %)
- corrosive class  $K\kappa 1$  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)











Power cables with aluminium conductors, with non-draining impregnated paper insulation, aluminium-sheathed, steel-tape armoured, with low-flammable PVC-compound protection hose

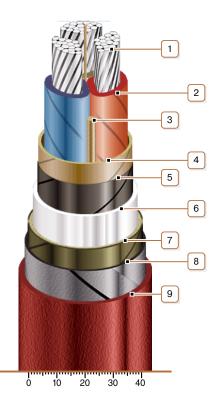
## **TECHNICAL SPECIFICATIONS**

Rated voltage	kV	10
Number and rated area of conductors	mm²	3 x 70
Insulation thikness between conductors	mm	5.5
Insulation thikness of conductor-sheath	mm	4
Sheath thikness	mm	1.5
Permissible continious current rating *		
by aerial laying	Α	161
• by burial	Α	162
Operating temperature range	°C	-50 +50
Minimum bending radius by laying	mm	1200
Metal shaeth outer diameter (for reference only)	mm	36
Rated outer diameter of the cable (for reference) **	mm	48
Cable weight (approximate)	kg/km	3480
Rated factory cable length and gross weight of the delivery	m, t	# 18: 500 • 2.2
on the drums ***		

## Notes:

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

<sup>\*\*</sup> The external diameter may differ from the rated up to  $\pm$  10 %



## CONSTRUCTION

- 1. Aluminium multiwire compacted conductor
- 2. Impregnated paper insulation
- 3. Cable paper bundle
- 4. Belt insulation
- 5. Conducting paper screen
- 6. Aluminium sheath
- 7. Plastic-tape and glass-tape bedding
- 8. Double galvanized steel-tape armour
- 9. Pressed off low fire-risk PVC compound protection hose

Note: Conductor twisting is not illustrated

<sup>\*</sup> 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