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 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

ААБвШнгд 3х120-6 ТУ У 27.3-00214534-091:2017



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

Cables are used for laying:

• in dry premises (tunnels), ducts, cable cellars, mines, collectors, industrial and other premises, including damp, partially flooded premises, environment with medium and high corrosivenes

- 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: ПБ123121000

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 $\protect\ensuremath{\mathcal{I}}\ensuremath{\kappa}\ensuremath{1}$ on smoke-forming ability by smouldering of non-metallic elements (coefficient of smoke formation from 50 to 500 m²/kg)

• class ДΠκ2 on smoke-forming ability by combustion (minimum luminous flux more than 60 %)

• corrosive class K κ 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 μ S/mm)





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TECHNICAL SPECIFICATIONS

Rated voltage	kV	6
Number and rated area of conductors	mm²	3 x 120
Insulation thikness between conductors	mm	4
Insulation thikness of conductor-sheath	mm	2.95
Sheath thikness	mm	1.5
Permissible continious current rating *		
• by aerial laying	А	248
• by burial	А	243
Operating temperature range	°C	-50 +50
Minimum bending radius by laying	mm	1225
Level difference along the laying rout, not more than	m	20
Metal shaeth outer diameter (for reference only)	mm	37
Rated outer diameter of the cable (for reference) **	mm	49
Cable weight (approximate)	kg/km	4060
Rated factory cable length and gross weight of the delivery	m, t	# 18: 460 • 2.3
on the drums ***		

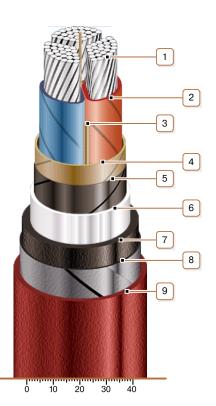
Notes:

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 °C, m AV, loving depth in the soil 0.7 m

thermal resistivity of soil 1.2 $^{\circ}$ K·m/W, laying depth in the soil 0.7 m

** 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. Bedding with PVC compound moulded-in hose
- 8. Double galvanized steel-tape armour
- 9. Pressed off low fire-risk PVC compound protection hose

Note: Conductor twisting is not illustrated