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# АПвЗКП 4x120-1 ТУ У 31.3-00214534-016-2003

Power cables with aluminium conductors, XLPE-insulated, with filling of intermediate spaces between the conductors, round-steel-wire armoured, with polyethylene outer sheath

Cables are used for laying:

- in premises, tunnels, collectors, in soil (trenches), in corrosive environment
- in places, where intense tensile forces are possible (in cable lifting, in bulk, heaving, boggy, everfrost soils)
- in water at depth up to 10 m

Manufacturing of cables with a different number and different design of conductors is possible Manufacturing of single-phase cables with aluminium-wire armour is possible

Fire safety code in accordance with ДСТУ 4809:2007: ΠБ100000000 Products of this mark meet the requirements:

• single wire cable flame retardance

## **TECHNICAL SPECIFICATIONS**

Rated voltage	kV	1
Number and rated area of conductors	mm²	4 x 120
Phase insulation thikness	mm	1.2
Armor wire diameter	mm	2.8
Permissible continious current rating (AC of industrial frequency)	*	
by aerial laying	Α	269
• by burial	Α	248
Maximum permissible conductor temperature		
Continious	°C	+90
• at short circuit	°C	+250
Operating temperature range	°C	-60 +50
Minimum bending radius by laying	mm	392
Rated outer diameter of the cable (for reference) **	mm	49
Cable weight (approximate)	kg/km	7640
Rated factory cable length and gross weight of the delivery	m, t	# 18: 460 • 4.0
on the drums		# 20: 740 • 6.3

#### Notes:

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

<sup>\*</sup> 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

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



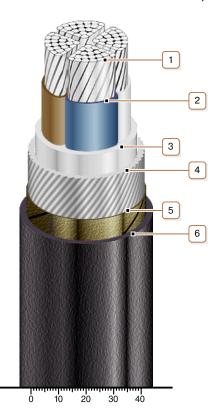




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## CONSTRUCTION

- 1. Aluminium multiwire compacted conductor
- 2. XLPE insulation
- 3. PVC compound belt insulation
- 4. Round galvanized steel-wire armour

  Note: Manufacturing of single-phase cables with aluminium-wire armour is possible
- 5. Lapping layer of nonwoven cloth tape
- 6. Polyethylene outer sheath

Note: Conductor twisting is not illustrated