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## АПвВГнгд 1x120-1 ТУ У 31.3-00214534-018-2003



Power cables with aluminium conductors, XLPE-insulated, 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 bunches, in crowded places

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/m<sup>3</sup>)

• class  $\[mu]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)

## **TECHNICAL SPECIFICATIONS**

Rated voltage	kV	1
Number and rated area of conductors	mm²	1 x 120
Phase insulation thikness	mm	1.2
Permissible continious current rating (AC of industrial frequency) *		
• by aerial laying	А	313
• by burial	А	271
Permissible continious current rating (DC) *		
• by aerial laying	А	399
• by burial	А	423
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	200
Rated outer diameter of the cable (for reference) **	mm	20
Cable weight (approximate)	kg/km	620
Rated factory cable length and gross weight of the delivery	m, t	# 12: 820 · 0.6
on the drums ***		# 14: 1570 • 1.2
Notes:		

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  $^{\circ}\!K^{\scriptscriptstyle\bullet}m/W$ , 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 multiwire compacted conductor
- 2. XLPE insulation
- 3. Low fire-risk PVC compound outer sheath

0 5 10 15