



## АПВКВнг 3х120-1 ТУ У 31.3-00214534-016-2003

Power cables with aluminium conductors, XLPE-insulated, galvanized steel-wire armoured, with low-flammable PVC-compound outer sheath

Cables are used for laying:

- *in bunches*
- *in premises, dry ducts and tunnels, in corrosive environment*
- *in places, where intense tensile forces are possible (in cable lifting, in bulk, heaving, boggy, everfrost soils)*

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: ПБ130000000

Products of this mark meet the requirements:

- *single wire cable flame retardance*
- *bunched cable flame retardance category B*

### TECHNICAL SPECIFICATIONS

Rated voltage	kV	1
Number and rated area of conductors	mm <sup>2</sup>	3 x 120
Phase insulation thickness	mm	1.2
Armor wire diameter	mm	2.2
Permissible continuous current rating (AC of industrial frequency) *		
• <i>by aerial laying</i>	A	290
• <i>by burial</i>	A	267
Maximum permissible conductor temperature		
• <i>Continuous</i>	°C	+90
• <i>at short circuit</i>	°C	+250
Operating temperature range	°C	-50 ... +50
Minimum bending radius by laying	mm	344
Rated outer diameter of the cable (for reference) **	mm	43
Cable weight (approximate)	kg/km	3520
Rated factory cable length and gross weight of the delivery on the drums ***	m, t	# 16a: 520 • 2.1
		# 18: 600 • 2.6
		# 20: 960 • 4.0

Notes:

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

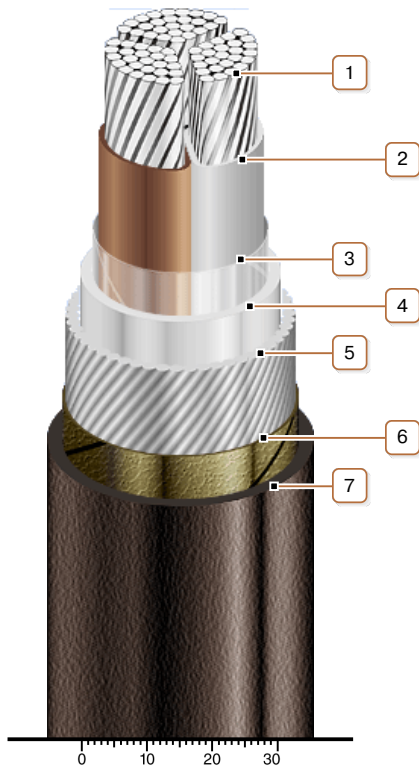
*\* Long permissible current loads are calculated for the following conditions: air temperature plus 25 °C, soil temperature plus 15 °C, thermal resistivity of soil 1.2 °K·m/W, laying depth in the soil 0.7 m*

*\*\* The external diameter may differ from the rated up to ± 10 %*



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### CONSTRUCTION

1. Aluminium multiwire compacted conductor

2. XLPE insulation

3. PET film winding

4. PVC compound belt insulation

5. Round galvanized steel-wire armour

*Note: Manufacturing of single-phase cables with aluminium-wire armour is possible*

6. Lapping layer of nonwoven cloth tape

7. Low flammable PVC compound outer sheath

*Note: Conductor twisting is not illustrated*