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### АПвБбШв 1х300-1 ГОСТ 16442-80,ТУ У 31.3-00214534-048:2007

Power cables with aluminium conductors, XLPE-insulated, galvanized steel-tape armoured, with PVC-compound protection hose

Cables are used for laying:

- · single laying
- · in premises, dry ducts and tunnels, in corrosive environment
- · in places, where small mechanical impacts on cable are possible, including tensile forces

Manufacturing of non-galvanized armoured cable, covered with a layer of bitumen and PET film is possible Manufacturing of cable with PVC compound belt insulation 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**

Number and rated area of conductors mm² 1 x 300 Phase insulation thikness mm 1.8  Permissible continious current rating (AC of industrial frequency)*  • by aerial laying A 580  • by burial A 455  Permissible continious current rating (DC) *  • by aerial laying A 738  • by burial A 713  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 340  Rated outer diameter of the cable (for reference) **  Cable weight (approximate) kg/km 1550  Rated factory cable length and gross weight of the delivery m, t # 14: 540 • 1.0  on the drums ***  # 16a: 870 • 1.6  # 18: 1000 • 2.0	Rated voltage	kV	1
Permissible continious current rating (AC of industrial frequency) *  • by aerial laying	Number and rated area of conductors	mm²	1 x 300
<ul> <li>by aerial laying</li> <li>by burial</li> <li>A 455</li> <li>Permissible continious current rating (DC) *</li> <li>by aerial laying</li> <li>by burial</li> <li>A 738</li> <li>by burial</li> <li>A 713</li> <li>Maximum permissible conductor temperature</li> <li>Continious</li> <li>c +90</li> <li>in emergency operation</li> <li>c +130</li> <li>at short circuit</li> <li>c +250</li> <li>Operating temperature range</li> <li>c -50 +50</li> <li>Minimum bending radius by laying</li> <li>mm 340</li> <li>Rated outer diameter of the cable (for reference) **</li> <li>mm 34</li> <li>Cable weight (approximate)</li> <li>kg/km 1550</li> <li>Rated factory cable length and gross weight of the delivery</li> <li>on the drums ***</li> <li># 16a: 870 ⋅ 1.6</li> </ul>	Phase insulation thikness	mm	1.8
<ul> <li>by burial</li> <li>by aerial laying</li> <li>by burial</li> <li>by burial</li> <li>Continious</li> <li>in emergency operation</li> <li>at short circuit</li> <li>Coperating temperature range</li> <li>Cominimum bending radius by laying</li> <li>Rated outer diameter of the cable (for reference)</li> <li>Rated factory cable length and gross weight of the delivery</li> <li>by aerial laying</li> <li>A 738</li> <li>738</li> <li>A 738</li> <li>A 713</li> <li>A 713</li> <li>C +90</li> <li>C +90</li> <li>C +130</li> <li>C +250</li> <li>Operating temperature range</li> <li>°C -50 +50</li> <li>Minimum bending radius by laying</li> <li>mm 340</li> <li>Rated outer diameter of the cable (for reference) **</li> <li>mm 34</li> <li>Cable weight (approximate)</li> <li>kg/km 1550</li> <li>Rated factory cable length and gross weight of the delivery</li> <li>m, t # 14: 540 · 1.0</li> <li>on the drums ***</li> <li># 16a: 870 · 1.6</li> </ul>	Permissible continious current rating (AC of industrial frequency) *		
Permissible continious current rating (DC) *  • by aerial laying  • by burial  A 713  Maximum permissible conductor temperature  • Continious  • in emergency operation  • in emergency operation  • at short circuit  Coperating temperature range  Minimum bending radius by laying  Rated outer diameter of the cable (for reference) **  Rated factory cable length and gross weight of the delivery on the drums ***  # 16a: 870 • 1.6	by aerial laying	Α	580
<ul> <li>by aerial laying</li> <li>by burial</li> <li>Maximum permissible conductor temperature</li> <li>Continious</li> <li>in emergency operation</li> <li>at short circuit</li> <li>C +250</li> <li>Operating temperature range</li> <li>C -50 +50</li> <li>Minimum bending radius by laying</li> <li>Rated outer diameter of the cable (for reference) **</li> <li>mm 34</li> <li>Cable weight (approximate)</li> <li>Rated factory cable length and gross weight of the delivery</li> <li>on the drums ***</li> <li># 16a: 870 · 1.6</li> </ul>	• by burial	Α	455
<ul> <li>by burial</li> <li>Maximum permissible conductor temperature</li> <li>Continious</li> <li>in emergency operation</li> <li>at short circuit</li> <li>C +250</li> <li>Operating temperature range</li> <li>C -50 +50</li> <li>Minimum bending radius by laying</li> <li>Rated outer diameter of the cable (for reference) **</li> <li>mm 34</li> <li>Cable weight (approximate)</li> <li>Rated factory cable length and gross weight of the delivery</li> <li>on the drums ***</li> <li># 14: 540 • 1.0</li> <li>mn</li> <li>mn</li></ul>	Permissible continious current rating (DC) *		
Maximum permissible conductor temperature  • Continious  • in emergency operation  • at short circuit  • C  Operating temperature range  Minimum bending radius by laying  Rated outer diameter of the cable (for reference) **  Cable weight (approximate)  Rated factory cable length and gross weight of the delivery  on the drums ***  **C  +90  +130  • C  +250  C  -50 +50  mm  340  Rated outer diameter of the cable (for reference) **  mm  34  Cable weight (approximate)  kg/km  1550  m, t  # 14: 540 • 1.0  on the drums ***  # 16a: 870 • 1.6	• by aerial laying	Α	738
<ul> <li>Continious</li> <li>in emergency operation</li> <li>at short circuit</li> <li>C +250</li> <li>Operating temperature range</li> <li>C -50 +50</li> <li>Minimum bending radius by laying</li> <li>Rated outer diameter of the cable (for reference) **</li> <li>mm 34</li> <li>Cable weight (approximate)</li> <li>Rated factory cable length and gross weight of the delivery on the drums ***</li> <li># 14: 540 ⋅ 1.0</li> <li>m # 16a: 870 ⋅ 1.6</li> </ul>	• by burial	Α	713
<ul> <li>in emergency operation</li> <li>at short circuit</li> <li>C +250</li> <li>Operating temperature range</li> <li>C -50 +50</li> <li>Minimum bending radius by laying</li> <li>Rated outer diameter of the cable (for reference) **</li> <li>Cable weight (approximate)</li> <li>Rated factory cable length and gross weight of the delivery</li> <li>on the drums ***</li> <li># 14: 540 • 1.0</li> <li># 16a: 870 • 1.6</li> </ul>	Maximum permissible conductor temperature		
<ul> <li>at short circuit</li> <li>C +250</li> <li>Operating temperature range</li> <li>C -50 +50</li> <li>Minimum bending radius by laying</li> <li>Rated outer diameter of the cable (for reference) **</li> <li>Cable weight (approximate)</li> <li>Rated factory cable length and gross weight of the delivery</li> <li>on the drums ***</li> <li>p C +250</li> <li>mm 340</li> <li>kg/km 1550</li> <li>m, t # 14: 540 • 1.0</li> <li>on the drums ***</li> <li># 16a: 870 • 1.6</li> </ul>	Continious	°C	+90
Operating temperature range  Note: The image of the cable (for reference) and the image of the ima	in emergency operation	°C	+130
Minimum bending radius by laying mm 340  Rated outer diameter of the cable (for reference) ** mm 34  Cable weight (approximate) kg/km 1550  Rated factory cable length and gross weight of the delivery m, t # 14: 540 • 1.0  on the drums *** # 16a: 870 • 1.6	• at short circuit	°C	+250
Rated outer diameter of the cable (for reference) ** mm 34  Cable weight (approximate) kg/km 1550  Rated factory cable length and gross weight of the delivery m, t # 14: 540 • 1.0  on the drums *** # 16a: 870 • 1.6	Operating temperature range	°C	-50 +50
Cable weight (approximate) kg/km 1550  Rated factory cable length and gross weight of the delivery m, t # 14: 540 • 1.0 on the drums *** # 16a: 870 • 1.6	Minimum bending radius by laying	mm	340
Rated factory cable length and gross weight of the delivery m, t # 14: 540 • 1.0 on the drums *** # 16a: 870 • 1.6	Rated outer diameter of the cable (for reference) **	mm	34
on the drums *** # 16a: 870 • 1.6	Cable weight (approximate)	kg/km	1550
	Rated factory cable length and gross weight of the delivery	m, t	# 14: 540 • 1.0
# 18: 1000 • 2.0	on the drums ***		# 16a: 870 · 1.6
			# 18: 1000 • 2.0

#### 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 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 %



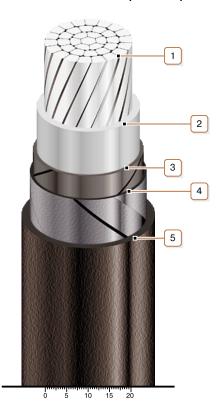




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Power cables with aluminium conductors, XLPE-insulated, galvanized steel-tape armoured, with PVC-compound protection hose



# **CONSTRUCTION**

- 1. Aluminium multiwire compacted conductor
- 2. XLPE insulation
- 3. Tape core wrapping
- 4. Double galvanized steel-tape armour
- 5. Pressed PVC compound protection hose