



АПвЕАкВ-10 1x1000 **ТУ У 31.3-00214534-017-2003**

Single-core power cables with aluminium conductor, with XLPE, aluminium-wire armoured, with PVC compound outer sheath

For the cable of this mark correspond the foreign-made analogues:

Al/XLPE/CWS/PVC/AWA/PVC (GB) • YHAKXSax (PL)

Due to non-magnetic armour, cables operate at AC

Technical cable requirements correspond to IEC 60502-2

Cables are used for laying:

- *in places, where small mechanical impacts on cable are possible, including tensile forces*
- *in premises, tunnels, ducts, mines, dry soil and outdoor under shelter*
- *single laying*

It is possible to manufacture cable with a segmented conductor

It is possible to manufacture cables with an integrated fiber-optic module.

Order entry example:

АПвЕАкВ-10 1x1000/70 (OM) ТУ У 31.3-00214534-017-2003

In conjunction with the DTS system, the integrated fiber-optic module can act as a distributed cable line temperature sensor.

It is possible to manufacture cable with sealed conductor.

Order entry example:

АПвЕАкВ-10 1x1000/70 (r) ТУ У 31.3-00214534-017-2003

Fire safety code in accordance with ДСТУ 4809:2007: ПБ100000000

Products of this mark meet the requirements:

- *single wire cable flame retardance*



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TECHNICAL SPECIFICATIONS

Rated voltage	kV	10
Maximum voltage	kV	12
Number and rated area of conductors	mm ²	1 x 1000
Insulation thickness	mm	3.4
Minimum screen cross-section	mm ²	70
Permissible short circuit current across the screen of minimum cross-section	kA	14.2
Maximum permissible short-circuit current in core	kA	94
Permissible continuous current rating *		
• by aerial laying in trefoil formation	A	1214
• by aerial flat laying	A	1315
• by burial in trefoil formation	A	736
• by burial flat	A	717
Partial discharge factor for rated voltage, not more than	pC	6
Maximum permissible conductor temperature		
• Continuous	°C	+90
• in emergency operation	°C	+130
• at short circuit	°C	+250
Operating temperature range (in climate version NF)	°C	-50 ... +50
Operating temperature range (in climate version T)	°C	-25 ... +65
Minimum bending radius by laying	mm	1072
Rated outer diameter of the cable (for reference) **	mm	67
Cable weight (approximate)	kg/km	6460
Rated factory cable length and gross weight of the delivery on the drums ***	m, t	# 25УД-90: 611 • 5.5

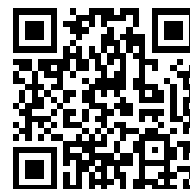
Notes:

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: conductor temperature 90 °C, air temperature 30 °C, soil temperature 20 °C, thermal resistivity of soil 1.5 °K·m/W, laying depth in the soil 0.8 m, while laying in flat formation the distance between cables in clear is equal to the cable diameter, while laying in trefoil formation cables are laid side by side, shields are earthed on both ends of the line

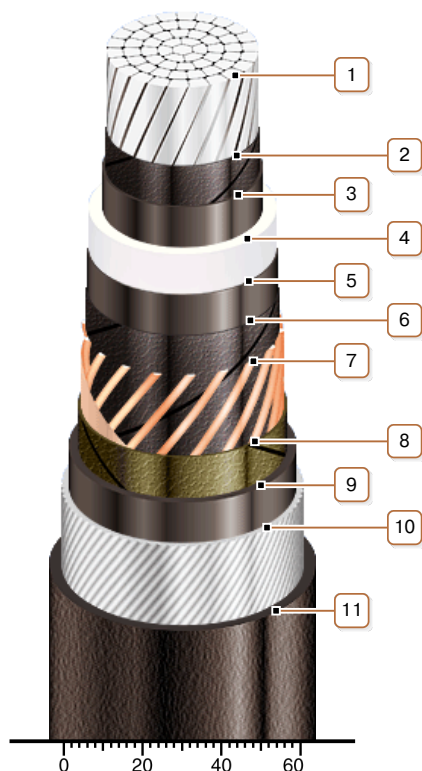
** The external diameter may differ from the rated up to ± 10 %

*** Отклонение фактической массы брутто от указанного значения может составлять ± 7 %



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CONSTRUCTION

1. Aluminium multiwire compacted conductor

Notes:

- It is possible to manufacture cable with a segmented conductor
- It is possible to manufacture cable with sealed conductor.

2. Lapping layer of semiconductive swellable tape

3. Inner extruded semiconducting layer

4. XLPE insulation

5. Outer extruded semiconducting layer

6. Lapping layer of semiconductive swellable tape

7. Copper screen

8. Lapping layer of nonwoven cloth tape

9. Extruded bedding of polyethylene

10. Aluminium-wire armour

11. PVC compound outer sheath