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# ПвЭгаАкПу-30 1х1000 ТУ У 31.3-00214534-017-2003



Single-core power cables with copper conductor, with XLPE, aluminium-wire armoured, with longitudinal and transverse screen sealing, with strengthened outer polyethylene sheath

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 soil (trenches)
- in damp, partially flooded premises
- · in ground with high humidity
- in non-navigable waters
- on difficult route sections, according to the unique specification
- in the air, including cable structures, if provided the additional fire protection

It is possible to manufacture cable with a segmented conductor

It is possible to manufacture cables with extruded semiconductor layer along outer sheath. Order entry example:

ПвЭгаАкПу-П-30 1х1000/70 ТУ У 31.3-00214534-017-2003

An extruded semiconductor layer along outer sheath ensures the correct testing of cable line with sections of underground laying in polymer pipes.

It is possible to manufacture cables with an integrated fiber-optic module. Order entry example: ΠεЭгаΑκΠy-30 1x1000/70 (OM) TY Y 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:

ПвЭгаАкПу-30 1х1000/70 (г) ТУ У 31.3-00214534-017-2003





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## **TECHNICAL SPECIFICATIONS**

Rated voltage	kV	30	
Maximum voltage	kV	36	
Number and rated area of conductors	mm²	1 x 1000	
Insulation thikness	mm	8	
Minimum screen cross-section	mm²	70	
Permissible short circuit current across the screen of	kA	14.2	
minimum cross-section			
Maximum permissible short-circuit current in core	kA	143	
Permissible continious current rating *			
by aerial laying in trefoil formation	A	1460	
• by aerial flat laying	A	1516	
by burial in trefoil formation	A	881	
• by burial flat	А	732	
Partial discharge factor for rated voltage, not more than	рС	6	
Maximum permissible conductor temperature			
Continious	°C	+90	
in emergency operation	°C	+130	
at short circuit	°C	+250	
Operating temperature range	°C	-60 +50	
Minimum bending radius by laying	mm	1264	
Rated outer diameter of the cable (for reference) **	mm	79	
Cable weight (approximate)	kg/km	13770	
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: 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  $\pm$  10 %

\*\*\* Отклонение фактической массы брутто от указанного значения может составлять  $\pm\,7\,\%$ 

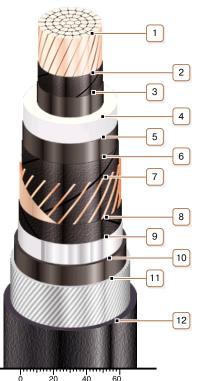




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20 40 60

### CONSTRUCTION

- 1. Copper multiwire compact 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 semiconductive swellable tape
- 9. Alumopolymer tape
- 10. Extruded bedding of polyethylene
- 11. Aluminium-wire armour

### 12. Strengthened polvethylene outer sheath

Note: It is possible to manufacture cable with extruded semiconductor layer along outer sheath