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# ПвЭАкВнгд-6 1х50 ТУ У 31.3-00214534-017-2003

SIngle-core power cables with copper conductor, flame-retardant, with XLPE, aluminium-wire armoured, with PVC compound outer sheath and with low smoke and gas emission

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
- · in bunches
- at sites, where low smoke and gas emission are required (NPP, subway, large industrial facilities, high-rise buildings, etc.)

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

Order entry example:

ПвЭАкВнгд-6 1х50/16 (ОМ) 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:

ПвЭАкВнгд-6 1х50/16 (г) ТУ У 31.3-00214534-017-2003

It is possible to supply of three stranded single-core cables.

Order entry example:

3хПвЭАкВнгд-6 1х50/16 ТУ У 31.3-00214534-017-2003

Fire safety code in accordance with ДСТУ 4809:2007: ПБ122121000

Products of this mark meet the requirements:

- · single wire cable flame retardance
- · bunched cable flame retardance category A
- toxicity class Tk2 of the combustion products of nonmetallic elements (toxicity index from 40 up to 120 g/m<sup>3</sup>)
- class  $\Pi T \kappa 1$  on smoke-forming ability by smouldering of non-metallic elements (coefficient of smoke formation from 50 to 500 m<sup>2</sup>/kg)
- class ДПк2 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)







# ПвЭАкВнгд-6 1х50 ТУ У 31.3-00214534-017-2003



Single-core power cables with copper conductor, flame-retardant, with XLPE, aluminium-wire armoured, with PVC compound outer sheath and with low smoke and gas emission

#### **TECHNICAL SPECIFICATIONS**

7.2 1 x 50 1 x 50 1 m 2.5 1 m 16 1 kA 3.3 1 kA 7.2	
nm 2.5 m² 16 kA 3.3	
m² 16 kA 3.3	
(A 3.3	
(A 7.2	
KA 7.2	
A 238	
A 286	
A 196	
A 203	
oC 6	
C +90	
C +130	
C +250	
C -50 +50	
C -25 +65	
nm 512	
nm 32	
/km 1630	
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### 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: 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

<sup>\*\*</sup> The external diameter may differ from the rated up to  $\pm$  10 %

<sup>\*\*\*</sup> Отклонение фактической массы брутто от указанного значения может составлять  $\pm$  7 %



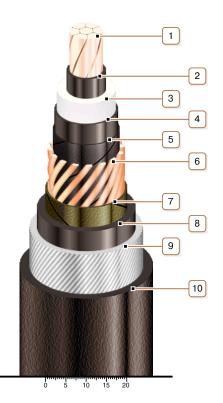




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### ПвЭАкВнгд-6 1х50 ТУ У 31.3-00214534-017-2003

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### **CONSTRUCTION**

- 1. Copper multiwire compact conductor
  Note: It is possible to manufacture cable with sealed conductor.
- 2. Inner extruded semiconducting layer
- 3. XLPE insulation
- 4. Outer extruded semiconducting layer
- 5. Lapping layer of semiconductive swellable tape
- 6. Copper screen
- 7. Lapping layer of nonwoven cloth tape
- 8. Extruded bedding of low fire-risk PVC compound
- 9. Aluminium-wire armour
- 10. Low fire-risk PVC compound outer sheath