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# АПвЭгаПнг-330 1x2000 ТУ У 31.3-00214534-061:2008

Power cables with aluminium conductor, flame-retardant, with XLPE, longitudinal and transverse screen sealing and polymer compound outer sheath

For the cable of this mark correspond the foreign-made analogues: AHXCHBMK (FI)

Technical cable requirements correspond to IEC 62067

Cables are used for laying:

- in premises, tunnels, ducts, mines, dry soil and outdoor under shelter
- · single laying

It is possible to manufacture cables with extruded semiconductor layer along outer sheath.

Order entry example:

АПвЭгаПнг-П-330 1x2000/95 ТУ У 31.3-00214534-061:2008

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:

АПвЭгаПнг-330 1x2000/95 (ОМ) ТУ У 31.3-00214534-061:2008

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:

АПвЭгаПнг-330 1х2000/95 (г) ТУ У 31.3-00214534-061:2008

Fire safety code in accordance with ДСТУ 4809:2007: ПБ101222000

Products of this mark meet the requirements:

- · single wire cable flame retardance
- toxicity class Tk1 of the combustion products of nonmetallic elements (toxicity index from 13 up to 40 g/m<sup>3</sup>)
- class  $\mu$ Tk2 on smoke-forming ability by smouldering of non-metallic elements (coefficient of smoke formation less than 50 m²/kg)
- class ДΠκ2 on smoke-forming ability by combustion (minimum luminous flux more than 60 %)
- corrosive class  $K\kappa 2$  of combustion products of non-metallic elements (the number of halogen hydrides less than 150 mg/g, pH more than 4.3, specific conductivity less than 10  $\mu$ S/mm)







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### **TECHNICAL SPECIFICATIONS**

Rated voltage	kV	330	
Maximum voltage	kV	363	
Conductor rated area	mm²	2000	
Minimum screen cross-section	mm²	95	
Partial discharge factor for rated voltage, not more than	рС	6	
Permissible short circuit current across the screen of	kA	19.3	
minimum cross-section			
Maximum permissible short-circuit current in core	kA	188	
Permissible continious current rating by aerial laying *			
in trefoil formation with double-side screen earthing	Α	1562	
in trefoil formation with single-side screen earthing or	Α	1805	
cross screen earthing			
plane with double-side screen earthing	Α	1420	
plane with single-side screen earthing or cross screen	Α	2070	
earthing			
Permissible continious current rating by burial *			
in trefoil formation with double-side screen earthing	Α	1055	
in trefoil formation with single-side screen earthing or	Α	1298	
cross screen earthing			
<ul> <li>plane with double-side screen earthing</li> </ul>	Α	868	
<ul> <li>plane with single-side screen earthing or cross screen</li> </ul>	Α	1380	
earthing			
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	2144	
Rated outer diameter of the cable (for reference) **	mm	134	
Cable weight (approximate)	kg/km	19800	
Notes:			

#### 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, load factor 1.0, thermal resistivity of soil 1.0 °K • m/W, laying depth in the ground 1.5 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

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



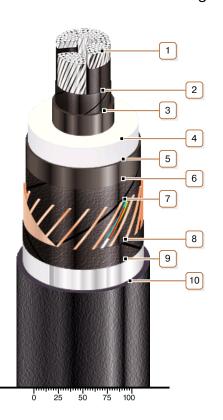




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### **CONSTRUCTION**

- 1. Aluminium multiwire compacted conductor
- It is possible to manufacture cable with sealed conductor.
- · Conductor segment twisting is not illustrated
- 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 with an integrated fiber-optic module (optional)
- 8. Lapping layer of semiconductive swellable tape
- 9. Alumopolymer tape
- 10. Flame-retardant polymer compound outer sheath

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