





7, Autogennaya Str., Kharkov, 61099, Ukraine. Phone: (+38-057) 728-1244, 728-1241. Fax: (+38-057) 728-1243, (+38-0572) 946-830

АПвЭгаПнг-220 1x1600 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-220 1x1600/95 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-220 1х1600/95 (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-220 1х1600/95 (г) ТУ У 31.3-00214534-061:2008

Fire safety code in accordance with ДСТУ 4809:2007: ΠБ101222000

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/m³)
- class ДТк2 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 Kκ2 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 μ S/mm)

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TECHNICAL SPECIFICATIONS

Rated voltage	kV	220	
Maximum voltage	kV	252	
Conductor rated area	mm²	1600	
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	151	
Permissible continious current rating by aerial laying *			
in trefoil formation with double-side screen earthing	Α	1410	
in trefoil formation with single-side screen earthing or	Α	1594	
cross screen earthing			
plane with double-side screen earthing	Α	1316	
plane with single-side screen earthing or cross screen	Α	1831	
earthing			
Permissible continious current rating by burial *			
in trefoil formation with double-side screen earthing	Α	971	
in trefoil formation with single-side screen earthing or	Α	1157	
cross screen earthing			
plane with double-side screen earthing	Α	818	
plane with single-side screen earthing or cross screen	Α	1226	
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	1872	
Rated outer diameter of the cable (for reference) **	mm	117	
Cable weight (approximate)	kg/km	15860	

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, 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

^{**} The external diameter may differ from the rated up to \pm 10 %



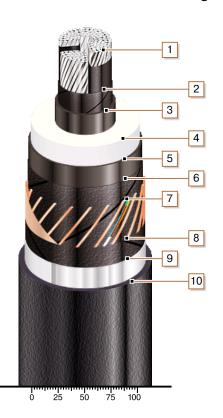




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CONSTRUCTION

- 1. Aluminium multiwire compacted 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 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: conductor segment twisting is not illustrated