7, Autogennaya Str., Kharkov, 61099, Ukraine. Phone: (+38-057) 728-1244, 728-1241. Fax: (+38-057) 728-1243, (+38-0572) 946-830
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101204-150010000300

АПвЕАкП-15 1х300
ТУ У 31.3-00214534-017-2003

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

For the cable of this mark correspond the foreign-made analogues:
Al/XLPE/CWS/PE/AWA/MDPE (GB) • XHAKXSAx (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 soil (trenches)*
- *in the air, including cable structures, if provided the additional fire protection*

It is possible to manufacture cables with extruded semiconductor layer along outer sheath.
Order entry example:
АПвЕАкП-П–15 1х300/25 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:
АПвЕАкП-15 1х300/25 (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:
АПвЕАкП-15 1х300/25 (г) ТУ У 31.3-00214534-017-2003

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TECHNICAL SPECIFICATIONS

Rated voltage	kV	15
Maximum voltage	kV	17.5
Number and rated area of conductors	mm^2	1 x 300
Insulation thikness	mm	4.5
Minimum screen cross-section	mm^2	25
Permissible short circuit current across the screen of minimum cross-section	kA	5.1
Maximum permissible short-circuit current in core	kA	28.2
Permissible continious current rating *		
• *by aerial laying in trefoil formation*	A	577
• *by aerial flat laying*	A	677
• *by burial in trefoil formation*	A	414
• *by burial flat*	A	419
Partial discharge factor for rated voltage, not more than	pC	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	784
Rated outer diameter of the cable (for reference) **	mm	49
Cable weight (approximate)	kg/km	2680
Rated factory cable length and gross weight of the delivery on the drums ***	m, t	# 22УД-60: 661 • 2.7 # 20аУД-60: 810 • 2.9 # 25УД-90: 1323 • 5.1

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 ± 10 %*

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

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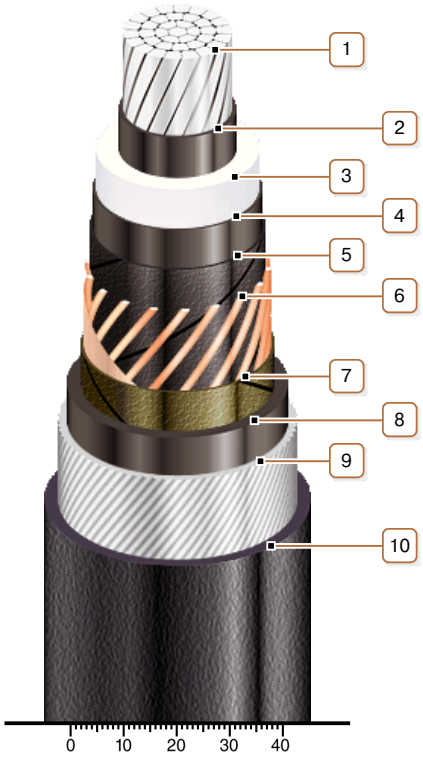
Single-core power cables with aluminium conductor, with XLPE, aluminium-wire armoured, with polyethylene outer sheath



CONSTRUCTION

1. Aluminium multiwire compacted 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 polyethylene
9. Aluminium-wire armour
10. Outer sheath of polyethylene or polyethylene copolymer
Note: It is possible to manufacture cable with extruded semiconductor layer along outer sheath

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