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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110105-150000001600

АПвЕгПу-150 1х1600
ТУ У 31.3-00214534-060:2011

Power cables with aluminium conductor, with XLPE, longitudinal screen sealing and strengthened polyethylene outer sheath

For the cable of this mark correspond the foreign-made analogues:
АПвПуг (RU)
Technical cable requirements correspond to IEC 60840

Cables are used for laying:
- *in soil (trenches)*
- *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 cables with extruded semiconductor layer along outer sheath.
Order entry example:
АПвЕгПу-П–150 1х1600/95 ТУ У 31.3-00214534-060:2011
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:
АПвЕгПу-150 1х1600/95 (ОМ) ТУ У 31.3-00214534-060:2011
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:
АПвЕгПу-150 1х1600/95 (г) ТУ У 31.3-00214534-060:2011

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TECHNICAL SPECIFICATIONS

Rated voltage	kV	150
Maximum voltage	kV	170
Conductor rated area	mm^2	1600
Minimum screen cross-section	mm^2	35
Partial discharge factor for rated voltage, not more than	pC	6
Permissible short circuit current across the screen of minimum cross-section	kA	14.2
Maximum permissible short-circuit current in core	kA	151
Permissible continious current rating by aerial laying *		
• *in trefoil formation with double-side screen earthing*	A	1382
• *in trefoil formation with single-side screen earthing or cross screen earthing*	A	1605
• *plane with double-side screen earthing*	A	1265
• *plane with single-side screen earthing or cross screen earthing*	A	1899
Permissible continious current rating by burial *		
• *in trefoil formation with double-side screen earthing*	A	955
• *in trefoil formation with single-side screen earthing or cross screen earthing*	A	1153
• *plane with double-side screen earthing*	A	797
• *plane with single-side screen earthing or cross screen earthing*	A	1225
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	1808
Rated outer diameter of the cable (for reference) **	mm	113
Cable weight (approximate)	kg/km	13550

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 ± 10 %*

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

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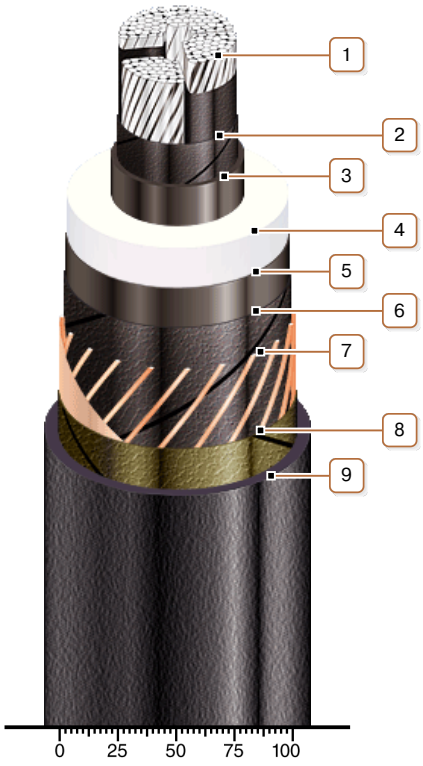
Power cables with aluminium conductor, with XLPE, longitudinal screen sealing and strengthened polyethylene outer sheath



CONSTRUCTION

1. Aluminium multiwire compacted conductor

Notes:
- *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

Note: It is possible to manufacture a cable with a fiber optic module built into the screen, including as a DTS system sensor

8. Lapping layer of nonwoven cloth tape

9. Strengthened polyethylene outer sheath

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

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