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106207-060010000050

ПвЕгаАкПу-6 1х50
ТУ У 31.3-00214534-017-2003

SIngle-core power cables with copper conductor, with XLPE, aluminium-wire armoured, with longitudinal and transverse screen sealing, with strengthened outer polyethylene sheath

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 damp, partially flooded premises*
- *in ground with high humidity*
- *in non-navigable waters*
- *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:
ПвЕгаАкПу-П–6 1х50/16 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:
ПвЕгаАкПу-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:
ПвЕгаАкПу-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:
3хПвЕгаАкПу-6 1х50/16 ТУ У 31.3-00214534-017-2003

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TECHNICAL SPECIFICATIONS

Rated voltage	kV	6
Maximum voltage	kV	7.2
Number and rated area of conductors	mm^2	1 x 50
Insulation thikness	mm	2.5
Minimum screen cross-section	mm^2	16
Permissible short circuit current across the screen of minimum cross-section	kA	3.3
Maximum permissible short-circuit current in core	kA	7.2
Permissible continious current rating *		
• *by aerial laying in trefoil formation*	A	238
• *by aerial flat laying*	A	286
• *by burial in trefoil formation*	A	196
• *by burial flat*	A	203
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	544
Rated outer diameter of the cable (for reference) **	mm	34
Cable weight (approximate)	kg/km	1480
Rated factory cable length and gross weight of the delivery on the drums ***	m, t	# 18аУД-40: 1365 • 2.6

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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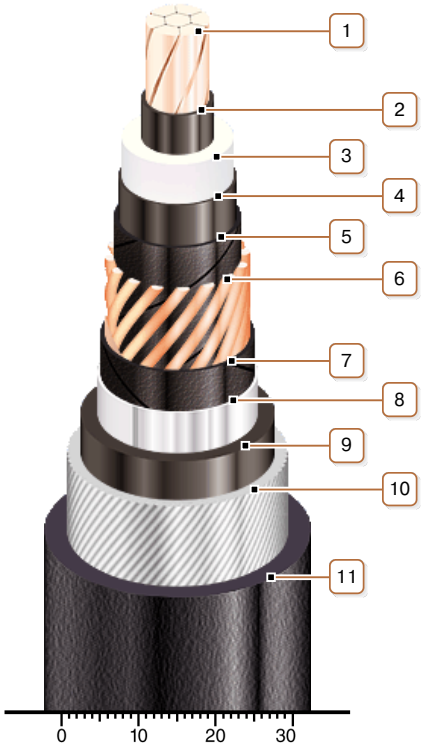
SIngle-core power cables with copper conductor, with XLPE, aluminium-wire armoured, with longitudinal and transverse screen sealing, with strengthened outer polyethylene sheath



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 semiconductive swellable tape
8. Alumopolymer tape
9. Extruded bedding of polyethylene
10. Aluminium-wire armour
11. Strengthened polyethylene outer sheath
Note: It is possible to manufacture cable with extruded semiconductor layer along outer sheath

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