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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105102-150010001200

ПвЕВнг-15 1х1200
ТУ У 31.3-00214534-017-2003

Power cables with copper conductors, flame-retardant, with XLPE and with PVC compound outer sheath

For the cable of this mark correspond the foreign-made analogues:
ПвВнг(В) (RU) • ПвВнг(А) (RU)
Technical cable requirements correspond to IEC 60502-2

Cables are used for laying:
- *in premises, tunnels, ducts, mines, dry soil and outdoor under shelter*
- *in bunches*

It is possible to manufacture cables with an integrated fiber-optic module.
Order entry example:
ПвЕВнг-15 1х1200/70 (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:
ПвЕВнг-15 1х1200/70 (г) ТУ У 31.3-00214534-017-2003

Fire safety code in accordance with ДСТУ 4809:2007: ПБ130000000
Products of this mark meet the requirements:
- *single wire cable flame retardance*
- *bunched cable flame retardance category B*

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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 1200
Insulation thikness	mm	4.5
Minimum screen cross-section	mm^2	70
Permissible short circuit current across the screen of minimum cross-section	kA	14.2
Maximum permissible short-circuit current in core	kA	172
Permissible continious current rating *		
• *by aerial laying in trefoil formation*	A	1505
• *by aerial flat laying*	A	2088
• *by burial in trefoil formation*	A	995
• *by burial flat*	A	827
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 (in climate version NF)	° C	-50 ... +50
Operating temperature range (in climate version T)	° C	-25 ... +65
Minimum bending radius by laying	mm	1168
Rated outer diameter of the cable (for reference) **	mm	73
Cable weight (approximate)	kg/km	13710
Rated factory cable length and gross weight of the delivery on the drums ***	m, t	# 25УД-90: 583 • 9.6

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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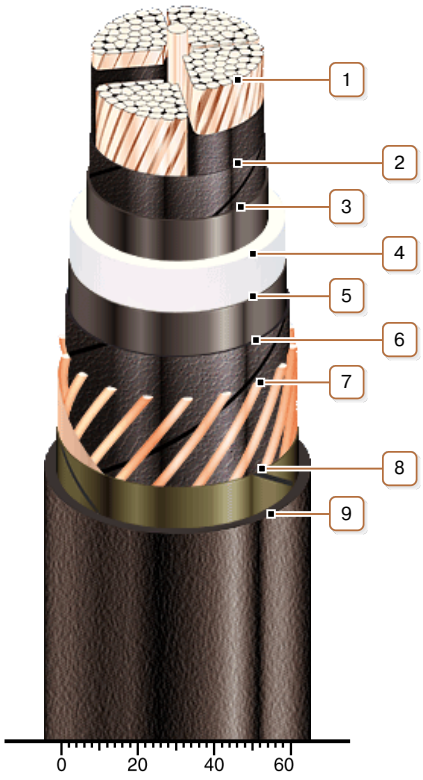

CONSTRUCTION

1. Copper segmentary multiwire compact 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

8. Lapping layer of glass tape

9. Low flammable PVC compound outer sheath

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