



## **ПВЭСПнг-6 1x240** **ТУ У 27.3-00214534-092:2016**

Single-core power cables with copper conductors, XLPE-insulated, with copper screen, lead-sheathed, with outer sheath of polymer composition, flame retardant

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Technical cable requirements correspond to IEC 60502-2

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Cables are used for laying:

- *in places, where small mechanical impacts on cable are possible, including tensile forces*
- *in premises, tunnels, ducts, mines, dry soil and outdoor under shelter*
- *single laying*

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It is possible to manufacture cables with extruded semiconductor layer along outer sheath.

Order entry example:

ПВЭСПнг-П-6 1x240/25 ТУ У 27.3-00214534-092:2016

An extruded semiconductor layer along outer sheath ensures the correct testing of cable line with sections of underground laying in polymer pipes.

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It is possible to manufacture cables with an integrated fiber-optic module.

Order entry example:

ПВЭСПнг-6 1x240/25 (OM) ТУ У 27.3-00214534-092:2016

In conjunction with the DTS system, the integrated fiber-optic module can act as a distributed cable line temperature sensor.

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Cables without copper screen can also be manufactured

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It is possible to manufacture cable with sealed conductor.

Order entry example:

ПВЭСПнг-6 1x240/25 (r) ТУ У 27.3-00214534-092:2016

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It is possible manufacturing of cables in versions (A) and (B), flame-retardant when laying in bunches

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Fire safety code in accordance with ДСТУ 4809:2007: ПБ101122000

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/m<sup>3</sup>)*
- *class ДТк1 on smoke-forming ability by smouldering of non-metallic elements (coefficient of smoke formation from 50 to 500 m<sup>2</sup>/kg)*
- *class ДПк2 on smoke-forming ability by combustion (minimum luminous flux more than 60 %)*
- *corrosive class Кк2 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 μS/mm)*



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### TECHNICAL SPECIFICATIONS

Rated voltage	kV	6
Maximum voltage	kV	7.2
Number and rated area of conductors	mm <sup>2</sup>	1 x 240
Insulation thickness	mm	2.6
Sheath thickness	mm	1.7
Maximum permissible short-circuit current in core	kA	34.3
Permissible continuous current rating *		
• by aerial laying in trefoil formation	A	641
• by aerial flat laying	A	745
• by burial in trefoil formation	A	469
• by burial flat	A	470
Partial discharge factor for rated voltage, not more than	pC	6
Maximum permissible conductor temperature		
• Continuous	°C	+90
• in emergency operation	°C	+130
• at short circuit	°C	+250
Operating temperature range	°C	-60 ... +50
Minimum bending radius by laying	mm	1000
Rated outer diameter of the cable (for reference) **	mm	40
Cable weight (approximate)	kg/km	5590
Rated factory cable length and gross weight of the delivery on the drums ***	m, t	# 18аУД-40: 1062 • 6.5 # 22УД-60: 1093 • 7.0 # 20аУД-60: 1244 • 7.7

#### Notes:

When ordering it is necessary 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

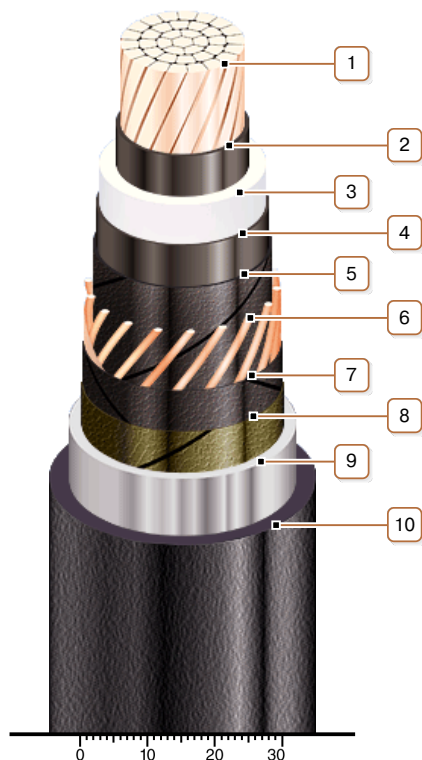
\*\* The external diameter may differ from the rated up to ± 10 %

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



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### CONSTRUCTION

#### 1. Copper 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

*Note: Cables without copper screen can also be manufactured*

#### 7. Lapping layer of semiconductive swellable tape

#### 8. Lapping layer of semiconductive tape

#### 9. Lead sheath

#### 10. Flame-retardant polymer compound outer sheath

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