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# ПвЭгПнг-10 1x1400 ТУ У 31.3-00214534-058:2007



Power cables with copper conductors, flame-retardant, with XLPE, longitudinal screen sealing and polymer compound outer sheath

For the cable of this mark correspond the foreign-made analogues: XnUHKXS (PL)

Technical cable requirements correspond to IEC 60502-2

Cables are used for laying:

- in premises, tunnels, ducts, mines, dry soil and outdoor under shelter
- single laying

It is possible to manufacture cables with extruded semiconductor layer along outer sheath. Order entry example:

ПвЭгПнг-П–10 1х1400/95 ТУ У 31.3-00214534-058:2007

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:

ПвЭгПнг-10 1х1400/95 (ОМ) ТУ У 31.3-00214534-058:2007

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:

ПвЭгПнг-10 1х1400/95 (г) ТУ У 31.3-00214534-058:2007

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

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  $40 \text{ g/m}^3$ )

• class  $\prod \kappa 1$  on smoke-forming ability by smouldering of non-metallic elements (coefficient of smoke formation from 50 to 500 m<sup>2</sup>/kg)

• class ДΠκ2 on smoke-forming ability by combustion (minimum luminous flux more than 60 %)

• corrosive class Kk2 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  $\mu$ S/mm)





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### **TECHNICAL SPECIFICATIONS**

Rated voltage	kV	10	
Maximum voltage	kV	12	
Number and rated area of conductors	mm²	1 x 1400	
Insulation thikness	mm	3.4	
Minimum screen cross-section	mm²	95	
Permissible short circuit current across the screen of	kA	19.3	
minimum cross-section			
Maximum permissible short-circuit current in core	kA	200	
Permissible continious current rating *			
by aerial laying in trefoil formation	А	1620	
• by aerial flat laying	А	2234	
by burial in trefoil formation	А	1039	
• by burial flat	А	880	
Partial discharge factor for rated voltage, not more than	рС	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	1216	
Rated outer diameter of the cable (for reference) **	mm	76	
Cable weight (approximate)	kg/km	16480	
Notoc:			

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  $\pm$  10 %

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



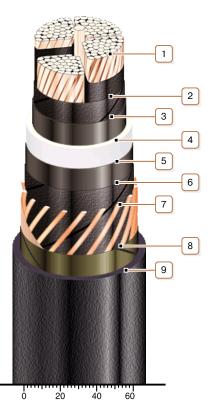


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#### CONSTRUCTION

- 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. Flame-retardant polymer compound outer sheath

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