



ПВЭВ-10 3x120 **ТУ У 31.3-00214534-017-2003**

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

For the cable of this mark correspond the foreign-made analogues:
N2XSEY (DE) • 2XSEY (DE) • Cu/XLPE/CWS/PVC (GB) • ПвВ (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*
 - *single laying*
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It is possible to manufacture cables with an integrated fiber-optic module.

Order entry example:

ПВЭВ-10 3x120/16 (OM) 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 conductors.

Order entry example:

ПВЭВ-10 3x120/16 (r) ТУ У 31.3-00214534-017-2003

Fire safety code in accordance with ДСТУ 4809:2007: ПБ100000000

Products of this mark meet the requirements:

- *single wire cable flame retardance*



ПВЭВ-10 3x120 TY Y 31.3-00214534-017-2003

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TECHNICAL SPECIFICATIONS

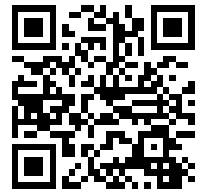
Rated voltage	kV	10
Maximum voltage	kV	12
Number and rated area of conductors	mm ²	3 x 120
Insulation thickness	mm	3.4
Minimum screen cross-section	mm ²	16
Permissible short circuit current across the screen of minimum cross-section	kA	3.3
Maximum permissible short-circuit current in core	kA	17.2
Permissible continuous current rating *		
• by aerial laying	A	351
• by burial	A	298
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 (in climate version NF)	°C	-50 ... +50
Operating temperature range (in climate version T)	°C	-25 ... +65
Minimum bending radius by laying	mm	928
Rated outer diameter of the cable (for reference) **	mm	58
Cable weight (approximate)	kg/km	5940
Rated factory cable length and gross weight of the delivery on the drums	m, t	# 18аУД-40: 423 • 3.1 # 20аУД-60: 526 • 3.8 # 25УД-90: 838 • 6.5

Notes:

When ordering it is necessary to agree the factory length of the product with the manufacturer

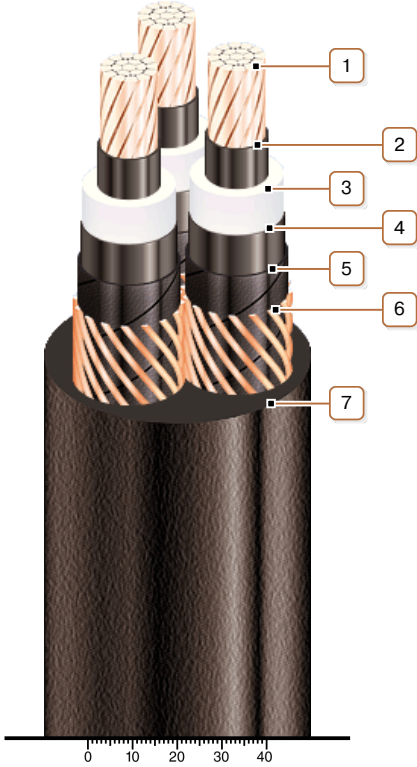
* Long permissible current loads are calculated for the following conditions: conductor temperature 90 °C, air temperature 30 °C, soil temperature 20 °C, load factor 1.0, thermal resistivity of soil 1.5 °K·m/W, laying depth in the ground 0.8 m, shields are grounded at both ends of the line

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



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CONSTRUCTION

- 1. Copper multiwire compact conductor**
Note: It is possible to manufacture cable with sealed conductors.
- 2. Inner extruded semiconducting layer**
- 3. XLPE insulation**
- 4. Outer extruded semiconducting layer**
- 5. Lapping layer of semiconductive swellable tape**
- 6. Copper screen**
- 7. PVC compound outer sheath**

Note: Conductor twisting is not illustrated