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# ПвЭВнг-45 1x1000 ТУ У 31.3-00214534-060:2011



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

For the cable of this mark correspond the foreign-made analogues:  $\Pi_BB_{H\Gamma}(B)$  (RU) •  $\Pi_BB_{H\Gamma}(A)$  (RU) Technical cable requirements correspond to IEC 60840

Cables are used for laying:

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

It is possible to manufacture cable with a segmented conductor

It is possible to manufacture cables with an integrated fiber-optic module. Order entry example:  $\Pi_B \ni B_{H\Gamma}-45 \ 1 \times 1000/95 \ (OM) \ TY \ Y \ 31.3-00214534-060:2011$ 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:  $\Pi B \Im B \text{H} \Gamma - 45 \text{ 1x1000/95} (\Gamma) \text{ TY Y 31.3-00214534-060:2011}$ 

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	45
Maximum voltage	kV	52
Conductor rated area	mm²	1000
Minimum screen cross-section	mm²	35
Partial discharge factor for rated voltage, not more than	рС	6
Permissible short circuit current across the screen of	kA	7.1
minimum cross-section		
Maximum permissible short-circuit current in core	kA	143
Permissible continious current rating by aerial laying *		
in trefoil formation with double-side screen earthing	А	1094
in trefoil formation with single-side screen earthing or	А	1254
cross screen earthing		
plane with double-side screen earthing	А	935
plane with single-side screen earthing or cross screen	А	1503
earthing		
Permissible continious current rating by burial *		
in trefoil formation with double-side screen earthing	А	852
in trefoil formation with single-side screen earthing or	А	994
cross screen earthing		
plane with double-side screen earthing	А	712
plane with single-side screen earthing or cross screen	А	1074
earthing		
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	1152
Rated outer diameter of the cable (for reference) **	mm	72
Cable weight (approximate)	kg/km	15450
Rated factory cable length and gross weight of the delivery	m, t	# 22УД-60: 339 • 6.2
on the drums ***		# 25УД-90: **** 545 • 10.0
Notes:		

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, load factor 1.0, thermal resistivity of soil 1.0 °K  $\cdot$  m/W, laying depth in the ground 1.5 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 \*\* The external diameter may differ from the rated up to ± 10 %

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

\*\*\*\* Option delivery on not full drum



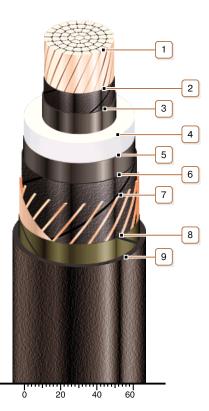


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#### CONSTRUCTION

- 1. Copper multiwire compact conductor
- Notes: • It is possible to manufacture cable with a segmented conductor • It is possible to manufacture cable with sealed conductor.
- 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

Note: It is possible to manufacture a cable with a fiber optic module built into the screen, including as a DTS system sensor

- 8. Lapping layer of glass tape
- 9. Low flammable PVC compound outer sheath