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ПвЭБВ-10 3х240 ТУ У 31.3-00214534-017-2003

Three-core power cables with copper conductors, with XLPE, steel-tape armoured, with PVC compound outer sheath

For the cable of this mark correspond the foreign-made analogues: 2XSEYBY (DE) \cdot Cu/SC/XLPE/SC/CuT/STA/PVC (GB) \cdot ПвБВ (RU) Technical cable requirements correspond to IEC 60502-2

Cables are used for laying:

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

It is possible to manufacture cables with an integrated fiber-optic module. Order entry example: $\Pi_B \Im EB-10 3x240/25$ (OM) TV V 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: $\Pi B \Im E B-10 3x 240/25$ (r) TY Y 31.3-00214534-017-2003

Fire safety code in accordance with <code>ДСТУ 4809:2007: ПБ10000000</code>

Products of this mark meet the requirements:

• single wire cable flame retardance





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TECHNICAL SPECIFICATIONS

Rated voltage	kV	10
Maximum voltage	kV	12
Number and rated area of conductors	mm²	3 x 240
Insulation thikness	mm	3.4
Minimum screen cross-section	mm²	25
Permissible short circuit current across the screen of	kA	5.1
minimum cross-section		
Maximum permissible short-circuit current in core	kA	34.3
Permissible continious current rating *		
• by aerial laying	А	529
• by burial	А	431
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 (in climate version NF)	°C	-50 +50
Operating temperature range (in climate version T)	°C	-25 +65
Minimum bending radius by laying	mm	1232
Rated outer diameter of the cable (for reference) **	mm	77
Cable weight (approximate)	kg/km	12330
Rated factory cable length and gross weight of the delivery on the drums ***	m, t	# 25УД-90: 443 • 7.0
Ninton.		

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 1.5 $\% \cdot m/W$, 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 \pm 10 %

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





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CONSTRUCTION

- 1. Copper multiwire compact 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: It is possible to manufacture a cable with a fiber optic module built into the screen, including as a DTS system sensor

- 7. Extruded filling of PVC compound
- 8. Double galvanized steel-tape armour
- 9. PVC compound outer sheath

Note: Conductor twisting is not illustrated

20 40 60