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ПвЭогВ-6 3х120 ТУ У 31.3-00214534-017-2003

Three-core power cables with copper conductors, with XLPE, collective screen, with longitudinal sealing and PVC compound outer sheath

For the cable of this mark correspond the foreign-made analogues: N2XSY (DE) • 2XSY (DE) • Cu/XLPE/CWS/PVC (GB) • YHKXS (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 an integrated fiber-optic module. Order entry example: $\Pi_B \Im_O \Gamma_B - 6 \Im_X 120/50$ (OM) TY Y $\Im_1 \Im_2 00214534-017-2003$ In conjunction with the DTS system, the integrated fiber-optic module can act a

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: $\Pi B \Im o \Gamma B - 6 \ 3x 120/50 \ (\Gamma) \ TY \ Y \ 31.3-00214534-017-2003$

Fire safety code in accordance with ДСТУ 4809:2007: ПБ10000000 Products of this mark meet the requirements:

• single wire cable flame retardance





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TECHNICAL SPECIFICATIONS

Rated voltage	kV	6
Maximum voltage	kV	7.2
Number and rated area of conductors	mm²	3 x 120
Insulation thikness	mm	2.5
Minimum screen cross-section	mm²	50
Permissible short circuit current across the screen of	kA	10.2
minimum cross-section		
Maximum permissible short-circuit current in core	kA	17.2
Permissible continious current rating *		
by aerial laying	А	351
• by burial	А	298
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	992
Rated outer diameter of the cable (for reference) **	mm	62
Cable weight (approximate)	kg/km	6030
Rated factory cable length and gross weight of the delivery	m, t	# 22УД-60: 475 • 3.8
on the drums ***		# 25УД-90: 808 • 6.4
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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10 20 30

CONSTRUCTION

- 1. Central polyethylene bundle
- 2. Copper multiwire compact conductor
- Note: It is possible to manufacture cable with sealed conductors. 3. Inner extruded semiconducting layer
- 4. XLPE insulation
- 5. Outer extruded semiconducting layer
- 6. Lapping layer of semiconductive swellable tape
- 7. Extruded filling of semiconducting polyethylene
- 8. Lapping layer of semiconductive swellable tape
- 9. Copper screen
- 10. Lapping layer of synthetic paper
- 11. PVC compound outer sheath

Note: Conductor twisting is not illustrated