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ПвЭВ-20 1x70 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: N2XSY (DE) • 2XSY (DE) • Cu/XLPE/CWS/PVC (GB) • YHKXS (PL) • ΠBB (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

It is possible to manufacture cables with an integrated fiber-optic module. Order entry example: $\Pi_B \ni B-20 \ 1 \times 70/16$ (OM) TY Y 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 conductor. Order entry example: $\Pi B \Im B$ -20 1x70/16 (Γ) TY Y 31.3-00214534-017-2003

It is possible to supply of three stranded single-core cables. Order entry example: $3x\Pi B \Im B$ -20 1x70/16 TY Y 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





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TECHNICAL SPECIFICATIONS

Datad valtage		20
Rated voltage	kV	20
Maximum voltage	kV	24
Number and rated area of conductors	mm²	1 x 70
Insulation thikness	mm	5.5
Minimum screen cross-section	mm²	16
Permissible short circuit current across the screen of	kA	3.3
minimum cross-section		
Maximum permissible short-circuit current in core	kA	10
Permissible continious current rating *		
 by aerial laying in trefoil formation 	А	296
• by aerial flat laying	А	356
by burial in trefoil formation	А	239
• by burial flat	А	246
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	528
Rated outer diameter of the cable (for reference) **	mm	33
Cable weight (approximate)	kg/km	1390
Rated factory cable length and gross weight of the delivery	m, t	# 18аУД-40: 1365 • 2.4
on the drums ***		

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 %



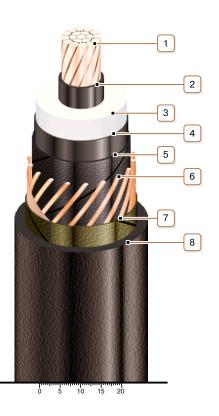


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CONSTRUCTION

1. Copper multiwire compact conductor

Note: It is possible to manufacture cable with sealed conductor.

- 2. Inner extruded semiconducting layer
- 3. XLPE insulation
- 4. Outer extruded semiconducting layer
- 5. Lapping layer of semiconductive swellable tape
- 6. Copper screen
- 7. Lapping layer of nonwoven cloth tape
- 8. PVC compound outer sheath