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# ПвЭоВнг(к)-20 3х185 ТУ У 31.3-00214534-017-2003



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

Technical cable requirements correspond to IEC 60502-2

Cables are used for laying:

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

in bunches

It is possible to manufacture cables with an integrated fiber-optic module. Order entry example:  $\Pi_B \Im_O B_{H\Gamma}(\kappa)$ -20 3x185/70 (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

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:  $\Pi B \Im O B H \Gamma(\kappa)$ -20 3x185/70 ( $\Gamma$ ) TY V 31.3-00214534-017-2003

Fire safety code in accordance with ДСТУ 4809:2007: ΠБ130000000 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	20
Maximum voltage	kV	24
Number and rated area of conductors	mm²	3 x 185
Insulation thikness	mm	5.5
Minimum screen cross-section	mm²	70
Permissible short circuit current across the screen of	kA	14.2
minimum cross-section		
Maximum permissible short-circuit current in core	kA	26.5
Permissible continious current rating *		
• by aerial laying	А	455
• by burial	А	377
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	1184
Rated outer diameter of the cable (for reference) **	mm	74
Cable weight (approximate)	kg/km	10190
Rated factory cable length and gross weight of the delivery	m, t	# 22УД-60: 319 • 4.2
on the drums ***		# 25УД-90: 583 • 7.5

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 °K  $\cdot$  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 %



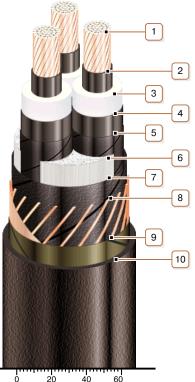


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#### **CONSTRUCTION**

- 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. Interstitial filler with polypropylene bundles
- 7. Lapping layer of semiconductive swellable tape
- 8. Copper screen
- 9. Lapping layer of glass tape
- 10. Low flammable PVC compound outer sheath

Note: Conductor twisting is not illustrated

20 40 60