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## АПвЭКВнг-20 3х35 ТУ У 31.3-00214534-017-2003



Three-core power cables with aluminium conductors, flame-retardant, with XLPE, steel-wire armoured, with PVC compound outer sheath

Technical cable requirements correspond to IEC 60502-2

Cables are used for laying:

- in places, where mechanical impacts on cable are possible, including tensile forces
- · 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:  $A\Pi B \Im KB H \Gamma - 20 \Im X \Im 5/16$  (OM) TY Y  $\Im 1.3-00214534-017-2003$ 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: ΑΠβЭΚΒΗΓ-20 3x35/16 (Γ) ΤУ У 31.3-00214534-017-2003

Fire safety code in accordance with ДСТУ 4809:2007: ПБ120000000 Products of this mark meet the requirements:

- single wire cable flame retardance
- · bunched cable flame retardance category A





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### **TECHNICAL SPECIFICATIONS**

Rated voltage	kV	20
Maximum voltage	kV	24
Number and rated area of conductors	mm²	3 x 35
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	3.3
Permissible continious current rating *		
• by aerial laying	А	133
• by burial	А	119
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	1008
Rated outer diameter of the cable (for reference) **	mm	63
Cable weight (approximate)	kg/km	5810
Rated factory cable length and gross weight of the delivery	m, t	# 22УД-60: 450 • 3.5
on the drums ***		# 25УД-90: 771 • 6.0
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 %



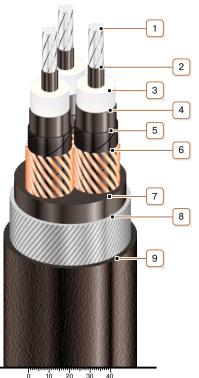


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#### **CONSTRUCTION**

- 1. Aluminium multiwire compacted conductor Note: It is possible to manufacture cable with sealed conductors.
- 2. Inner extruded semiconducting layer
- 3. XLPE insulation
- 4. Outer extruded semiconducting layer
- 5. Lapping layer of semiconductive swellable tape
- 6. Copper screen
- 7. Extruded filling of PVC compound
- 8. Round galvanized steel-wire armour
- 9. Low flammable PVC compound outer sheath

Note: Conductor twisting is not illustrated

10 20 30