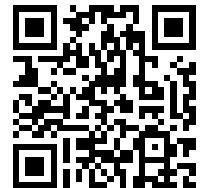




100102-300030000120



## **АПВЕВНГ-30 3x120** **ТУ У 31.3-00214534-017-2003**

Power cables with aluminium conductors, flame-retardant, with XLPE and PVC compound outer sheath

For the cable of this mark correspond the foreign-made analogues:

АПВВНГ(В) (RU) • АПВВНГ(А) (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*
- *in bunches*

It is possible to manufacture cables with an integrated fiber-optic module.

Order entry example:

АПВЕВНГ-30 3x120/16 (ОМ) ТУ У 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.

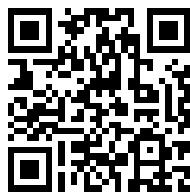
Order entry example:

АПВЕВНГ-30 3x120/16 (г) ТУ У 31.3-00214534-017-2003

Fire safety code in accordance with ДСТУ 4809:2007: ПБ130000000

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	30
Maximum voltage	kV	36
Number and rated area of conductors	mm <sup>2</sup>	3 x 120
Insulation thickness	mm	8
Minimum screen cross-section	mm <sup>2</sup>	16
Permissible short circuit current across the screen of minimum cross-section	kA	3.3
Maximum permissible short-circuit current in core	kA	11.3
Permissible continuous current rating *		
• by aerial laying	A	273
• by burial	A	232
Partial discharge factor for rated voltage, not more than	pC	6
Maximum permissible conductor temperature		
• Continuous	°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	1264
Rated outer diameter of the cable (for reference) **	mm	79
Cable weight (approximate)	kg/km	6560
Rated factory cable length and gross weight of the delivery on the drums ***	m, t	# 25УД-90: 443 • 4.5 # 26УД-100: 631 • 6.0

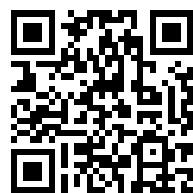
**Notes:**

When ordering it is necessary 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•m/W, laying depth in the ground 0.8 m, shields are grounded at both ends of the line

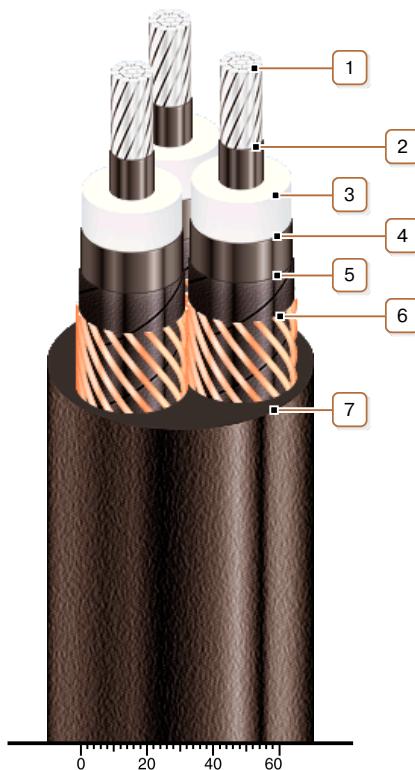
\*\* The external diameter may differ from the rated up to ± 10 %

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



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## CONSTRUCTION

### 1. Aluminium multiwire compacted conductor

Notes:

- It is possible to manufacture cable with a single-wire conductor
- 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. Low flammable PVC compound outer sheath

*Note: Conductor twisting is not illustrated*