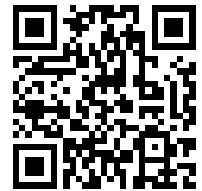




100421-10003000070

**АПВЕоВ(к)-10 3x70  
ТУ У 31.3-00214534-017-2003**

Three-core power cables with aluminium conductors, 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*
- *single laying*

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

Order entry example:

АПВЕоВ(к)-10 3x70/35 (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.

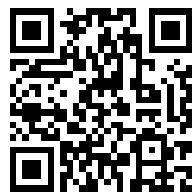
Order entry example:

АПВЕоВ(к)-10 3x70/35 (г) ТУ У 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*



## АПвЕоВ(к)-10 3x70 ТУ У 31.3-00214534-017-2003

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

### TECHNICAL SPECIFICATIONS

Rated voltage	kV	10
Maximum voltage	kV	12
Number and rated area of conductors	mm <sup>2</sup>	3 x 70
Insulation thickness	mm	3.4
Minimum screen cross-section	mm <sup>2</sup>	35
Permissible short circuit current across the screen of minimum cross-section	kA	7.1
Maximum permissible short-circuit current in core	kA	6.6
Permissible continuous current rating *		
• by aerial laying	A	196
• by burial	A	171
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	832
Rated outer diameter of the cable (for reference) **	mm	52
Cable weight (approximate)	kg/km	3120
Rated factory cable length and gross weight of the delivery on the drums ***	m, t	# 18aУД-40: 556 • 2.3 # 20aУД-60: 676 • 2.8 # 25УД-90: 1108 • 5.0

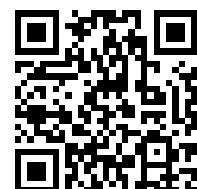
Notes:

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

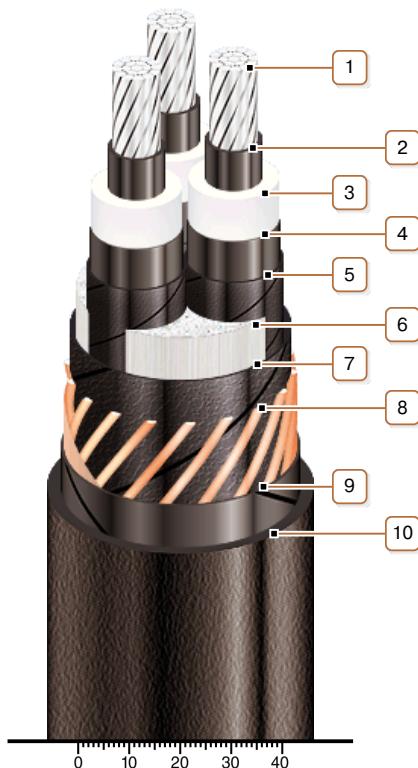
\*\* The external diameter may differ from the rated up to ± 10 %

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



**АПВЕоВ(к)-10 3x70**  
**ТУ У 31.3-00214534-017-2003**

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



## 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. **Interstitial filler with polypropylene bundles**
7. **Lapping layer of semiconductive swellable tape**
8. **Copper screen**
9. **Lapping layer of synthetic paper**
10. **PVC compound outer sheath**

*Note: Conductor twisting is not illustrated*