

АПВЕоВ(к)-35 3x50 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)-35 3x50/35 (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)-35 3x50/35 (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*

TECHNICAL SPECIFICATIONS

Rated voltage	kV	35
Maximum voltage	kV	42
Number and rated area of conductors	mm ²	3 x 50
Insulation thickness	mm	8.6
Minimum screen cross-section	mm ²	35
Permissible short circuit current across the screen of minimum cross-section	kA	7.1
Maximum permissible short-circuit current in core	kA	4.7
Permissible continuous current rating *		
• <i>by aerial laying</i>	A	158
• <i>by burial</i>	A	140
Partial discharge factor for rated voltage, not more than	pC	6
Maximum permissible conductor temperature		
• <i>Continuous</i>	°C	+90
• <i>in emergency operation</i>	°C	+130
• <i>at short circuit</i>	°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	1136
Rated outer diameter of the cable (for reference) **	mm	71
Cable weight (approximate)	kg/km	5630
Rated factory cable length and gross weight of the delivery on the drums ***	m, t	# 22УД-60: 339 • 2.8 # 25УД-90: 583 • 4.9

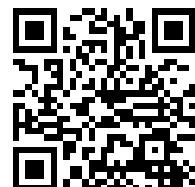
Notes:

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*

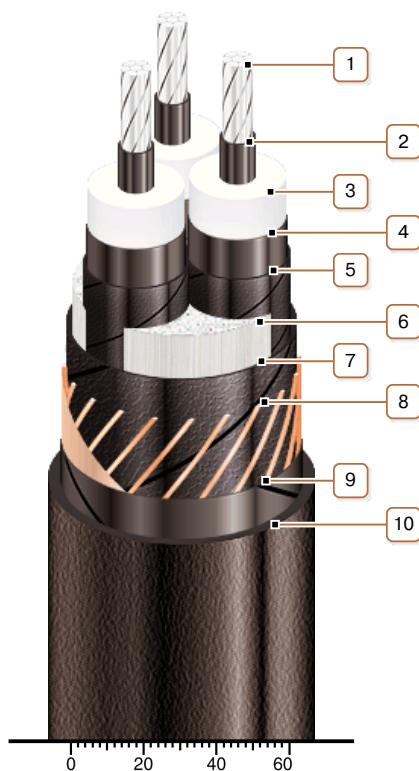
*** The external diameter may differ from the rated up to ± 10 %*

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



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CONSTRUCTION

1. **Aluminium multiwire compacted conductor**
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