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АПвЭВнгд(б)-10 3х240 ТУ У 31.3-00214534-017-2003

Three core power cables with aluminium conductors, XLPE-insulated, without core filling, with outer sheath of PVC compound, flame retardant, with low smoke and gas emission

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
- at sites, where low smoke and gas emission are required (NPP, subway, large industrial facilities, high-rise buildings, etc.)

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

Order entry example:

АПвЭВнгд(б)-10 3x240/25 (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:

АПвЭВнгд(б)-10 3х240/25 (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	10
Maximum voltage	kV	12
Number and rated area of conductors	mm²	3 x 240
Insulation thikness	mm	3.4
Minimum screen cross-section	mm²	25
Permissible short circuit current across the screen of	kA	5.1
minimum cross-section		
Maximum permissible short-circuit current in core	kA	22.7
Permissible continious current rating *		
by aerial laying	Α	415
• by burial	Α	340
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	1136
Rated outer diameter of the cable (for reference) **	mm	71
Cable weight (approximate)	kg/km	4420
Rated factory cable length and gross weight of the delivery	m, t	# 22УД-60: 339 • 2.4
on the drums ***		# 25УД-90: 583 • 4.1
Matan		

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 \pm 10 %

^{***} Отклонение фактической массы брутто от указанного значения может составлять $\pm\,7\,\%$



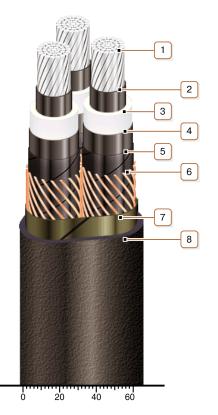




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CONSTRUCTION

1. Aluminium multiwire compacted conductor

- 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

Note: It is possible to manufacture a cable with a fiber optic module built into the screen, including as a DTS system sensor

- 7. Lapping layer of glass tape
- 8. Low fire-risk PVC compound outer sheath

Note: Conductor twisting is not illustrated