



7, Autogennaya Str., Kharkov, 61099, Ukraine. Phone: (+38-057) 728-1244, 728-1241. Fax: (+38-057) 728-1243, (+38-0572) 946-830 E-mail: market@yuzhcable.com.ua

АПвЭВнгд(к)-30 3х120 ТУ У 31.3-00214534-017-2003

Three core power cables with aluminium conductors, XLPE-insulated, core-filled with bundles, 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(к)-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:

АПвЭВнгд(к)-30 3х120/16 (г) ТУ У 31.3-00214534-017-2003

Fire safety code in accordance with ДСТУ 4809:2007: ПБ132121000

Products of this mark meet the requirements:

• single wire cable flame retardance

bunched cable flame retardance category B

• toxicity class Tk2 of the combustion products of nonmetallic elements (toxicity index from 40 up to 120 g/m^3)

• class $\[mu]T\kappa 1$ on smoke-forming ability by smouldering of non-metallic elements (coefficient of smoke formation from 50 to 500 m²/kg)

• class ДПк2 on smoke-forming ability by combustion (minimum luminous flux more than 60 %)

• corrosive class Kx1 of combustion products of non-metallic elements (the number of halogen hydrides less than 150 mg/g, pH less than 4.3, specific conductivity more than 10 μ S/mm)





7, Autogennaya Str., Kharkov, 61099, Ukraine. Phone: (+38-057) 728-1244, 728-1241. Fax: (+38-057) 728-1243, (+38-0572) 946-830 E-mail: market@yuzhcable.com.ua



АПвЭВнгд(к)-30 3х120 ТУ У 31.3-00214534-017-2003

Three core power cables with aluminium conductors, XLPE-insulated, core-filled with bundles, with outer sheath of PVC compound, flame retardant, with low smoke and gas emission

TECHNICAL SPECIFICATIONS

Rated voltage	kV	30
Maximum voltage	kV	36
Number and rated area of conductors	mm²	3 x 120
Insulation thikness	mm	8
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	11.3
Permissible continious current rating *		
• by aerial laying	А	273
• by burial	А	232
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	1280
Rated outer diameter of the cable (for reference) **	mm	80
Cable weight (approximate)	kg/km	5090
Rated factory cable length and gross weight of the delivery	m, t	# 25УД-90: 443 • 3.8
on the drums ***		# 26УД-100: 631 • 5.0
		# 30УД-130: 860 • 7.2

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 °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 %



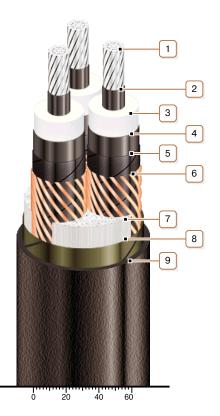


7, Autogennaya Str., Kharkov, 61099, Ukraine. Phone: (+38-057) 728-1244, 728-1241. Fax: (+38-057) 728-1243, (+38-0572) 946-830 E-mail: market@yuzhcable.com.ua



АПвЭВнгд(к)-30 3х120 ТУ У 31.3-00214534-017-2003

Three core power cables with aluminium conductors, XLPE-insulated, core-filled with bundles, with outer sheath of PVC compound, flame retardant, with low smoke and gas emission



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. Interstitial filler with polypropylene bundles
- 8. Lapping layer of glass tape
- 9. Low fire-risk PVC compound outer sheath

Note: Conductor twisting is not illustrated