АПвЭогВ-6 3х120
ТУ У 31.3-00214534-017-2003

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

For the cable of this mark correspond the foreign-made analogues:
NA2XSY (DE) · A2XSY (DE) · Al/XLPE/CWS/PVC (GB) · YHAKXS (PL)
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:
АПвЭогВ-6 3х120/50 (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.

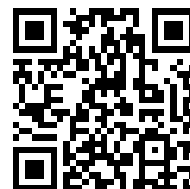It is possible to manufacture cable with sealed conductors.
Order entry example:
АПвЭогВ-6 3х120/50 (г) ТУ У 31.3-00214534-017-2003

Fire safety code in accordance with ДСТУ 4809:2007: ПБ100000000
Products of this mark meet the requirements:
· *single wire cable flame retardance*

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YUZHCABLE

PRODUCTION GUIDE

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

100406-060030000120

АПвЭогВ-6 3x120
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TECHNICAL SPECIFICATIONS

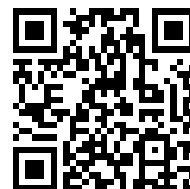|		
Rated voltage	kV	6
Maximum voltage	kV	7.2
Number and rated area of conductors	mm^2	3 x 120
Insulation thikness	mm	2.5
Minimum screen cross-section	mm^2	50
Permissible short circuit current across the screen of minimum cross-section	kA	10.2
Maximum permissible short-circuit current in core	kA	11.3
Permissible continious 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		
· *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	992
Rated outer diameter of the cable (for reference) **	mm	62
Cable weight (approximate)	kg/km	3860
Rated factory cable length and gross weight of the delivery on the drums ***	m, t	# 22УД-60: 475 · 2.8 # 25УД-90: 808 · 4.7

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 ℃, air temperature 30 ℃, soil temperature 20 ℃, load factor 1.0, thermal resistivity of soil 1.5 ℃·m/W, laying depth in the ground 0.8 m, shields are grounded at both ends of the line
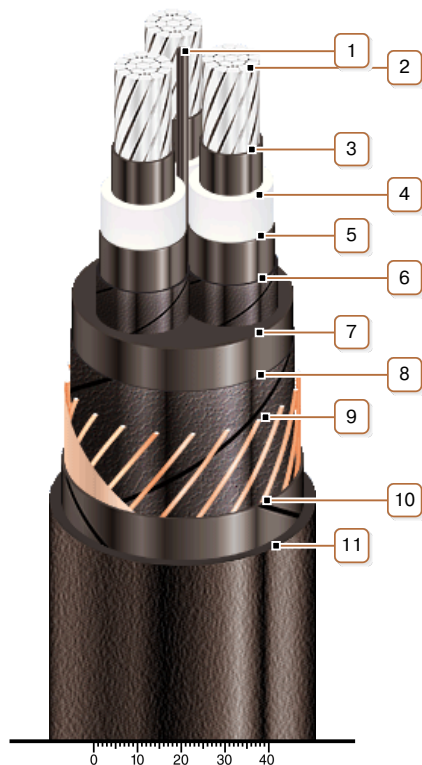
** The external diameter may differ from the rated up to ± 10 %

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

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CONSTRUCTION

1. *Central polyethylene bundle*

2. *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.*

3. *Inner extruded semiconducting layer*

4. *XLPE insulation*

5. *Outer extruded semiconducting layer*

6. *Lapping layer of semiconductive swellable tape*

7. *Extruded filling of semiconducting polyethylene*

8. *Lapping layer of semiconductive swellable tape*

9. *Copper screen*

10. *Lapping layer of synthetic paper*

11. *PVC compound outer sheath*

Note: Conductor twisting is not illustrated