



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

АПвЭКВ-30 3x120 ТУ У 31.3-00214534-017-2003



Three-core power cables with aluminium conductors, with XLPE, steel-wire armoured, with PVC compound outer sheath

For the cable of this mark correspond the foreign-made analogues: AI/XLPE/CWS/PVC/SWA/PVC (GB) Technical cable requirements correspond to IEC 60502-2

Cables are used for laying:

- in places, where mechanical impacts on cable are possible, including tensile forces
- 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: AΠβ∂KB-30 3x120/16 (OM) TY Y 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: $A\Pi B \Im KB-30 \Im x120/16 (\Gamma) TY Y \Im 1.3-00214534-017-2003$

Fire safety code in accordance with ДСТУ 4809:2007: ПБ10000000 Products of this mark meet the requirements:

• single wire cable flame retardance





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TECHNICAL SPECIFICATIONS

| | | 1 |
|---|-------|-----------------------------|
| 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 | 274 |
| • 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 | 1440 |
| Rated outer diameter of the cable (for reference) ** | mm | 90 |
| Cable weight (approximate) | kg/km | 12130 |
| Rated factory cable length and gross weight of the delivery | m, t | # 25УД-90: 396 • 6.4 |
| on the drums *** | | # 26УД-100: 457 • 7.4 |
| | | # 30УД-130: **** 589 • 10.0 |
| Nataa | | |

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 ± 7 %

**** Option delivery on not full drum



АПвЭКВ-30 3х120

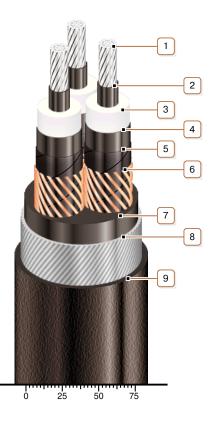


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CONSTRUCTION

- 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. Extruded filling of PVC compound
- 8. Round galvanized steel-wire armour
- 9. PVC compound outer sheath

Note: Conductor twisting is not illustrated