



## **АПвЕорВ-35 3x150 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:

АПвЕорВ-35 3x150/50 (OM) 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.

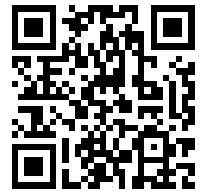
Order entry example:

АПвЕорВ-35 3x150/50 (r) 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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### TECHNICAL SPECIFICATIONS

|                                                                              |                 |                                                                        |
|------------------------------------------------------------------------------|-----------------|------------------------------------------------------------------------|
| Rated voltage                                                                | kV              | 35                                                                     |
| Maximum voltage                                                              | kV              | 42                                                                     |
| Number and rated area of conductors                                          | mm <sup>2</sup> | 3 x 150                                                                |
| Insulation thickness                                                         | mm              | 8.6                                                                    |
| Minimum screen cross-section                                                 | mm <sup>2</sup> | 50                                                                     |
| Permissible short circuit current across the screen of minimum cross-section | kA              | 10.2                                                                   |
| Maximum permissible short-circuit current in core                            | kA              | 14.2                                                                   |
| Permissible continuous current rating *                                      |                 |                                                                        |
| • by aerial laying                                                           | A               | 309                                                                    |
| • by burial                                                                  | A               | 260                                                                    |
| Partial discharge factor for rated voltage, not more than                    | pC              | 6                                                                      |
| Maximum permissible conductor temperature                                    |                 |                                                                        |
| • Continuous                                                                 | °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              | 1456                                                                   |
| Rated outer diameter of the cable (for reference) **                         | mm              | 91                                                                     |
| Cable weight (approximate)                                                   | kg/km           | 7530                                                                   |
| Rated factory cable length and gross weight of the delivery on the drums *** | m, t            | # 25УД-90: 305 • 3.9<br># 26УД-100: 457 • 5.3<br># 30УД-130: 639 • 7.7 |

#### 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

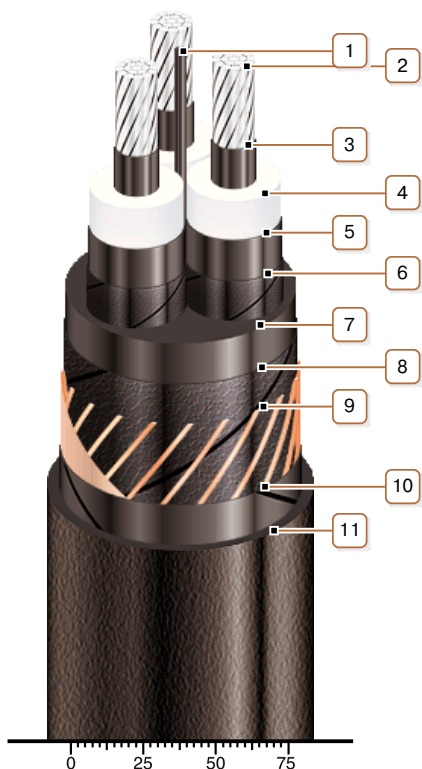
\*\* The external diameter may differ from the rated up to ± 10 %

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



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### CONSTRUCTION

1. 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