



## **АПВБ-15 3x50** **ТУ У 31.3-00214534-017-2003**

Power cables with aluminium conductors, with XLPE and PVC compound outer sheath

For the cable of this mark correspond the foreign-made analogues:

NA2XSEY (DE) • A2XSEY (DE) • Al/XLPE/CWS/PVC (GB) • АПВБ (RU)

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:

АПВБ-15 3x50/16 (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.

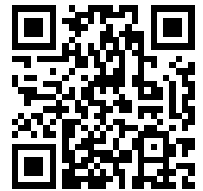
Order entry example:

АПВБ-15 3x50/16 (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              | 15                                                                      |
| Maximum voltage                                                              | kV              | 17.5                                                                    |
| Number and rated area of conductors                                          | mm <sup>2</sup> | 3 x 50                                                                  |
| Insulation thickness                                                         | mm              | 4.5                                                                     |
| Minimum screen cross-section                                                 | mm <sup>2</sup> | 16                                                                      |
| Permissible short circuit current across the screen of minimum cross-section | kA              | 3.3                                                                     |
| Maximum permissible short-circuit current in core                            | kA              | 4.7                                                                     |
| Permissible continuous current rating *                                      |                 |                                                                         |
| • by aerial laying                                                           | A               | 158                                                                     |
| • by burial                                                                  | A               | 140                                                                     |
| 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              | 816                                                                     |
| Rated outer diameter of the cable (for reference) **                         | mm              | 51                                                                      |
| Cable weight (approximate)                                                   | kg/km           | 2760                                                                    |
| Rated factory cable length and gross weight of the delivery on the drums *** | m, t            | # 18аУД-40: 556 • 2.1<br># 20аУД-60: 676 • 2.6<br># 25УД-90: 1108 • 4.6 |

#### 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

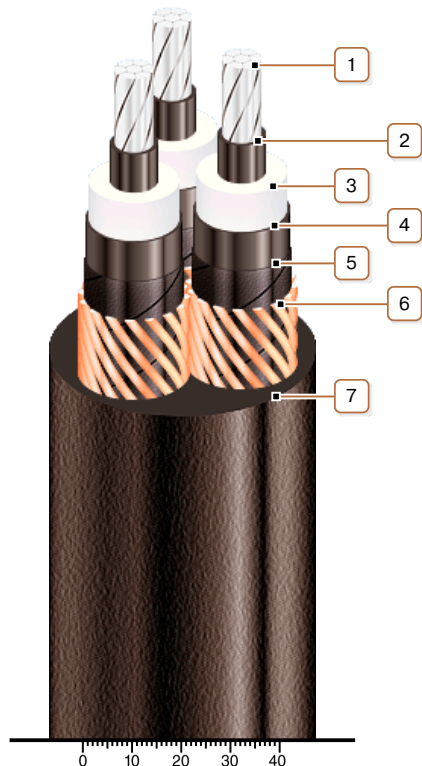
\*\* The external diameter may differ from the rated up to ± 10 %

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



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### CONSTRUCTION

**1. Aluminium multiwire compacted conductor**

*Note: 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. PVC compound outer sheath**

*Note: Conductor twisting is not illustrated*