



## **АПВБ-10 3x95** **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-10 3x95/16 (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-10 3x95/16 (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*



## АПвЕВ-10 3x95 ТУ У 31.3-00214534-017-2003

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

### TECHNICAL SPECIFICATIONS

|                                                                              |                 |                                                                        |
|------------------------------------------------------------------------------|-----------------|------------------------------------------------------------------------|
| Rated voltage                                                                | kV              | 10                                                                     |
| Maximum voltage                                                              | kV              | 12                                                                     |
| Number and rated area of conductors                                          | mm <sup>2</sup> | 3 x 95                                                                 |
| Insulation thickness                                                         | mm              | 3.4                                                                    |
| 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              | 8.9                                                                    |
| Permissible continuous current rating *                                      |                 |                                                                        |
| • by aerial laying                                                           | A               | 236                                                                    |
| • by burial                                                                  | A               | 203                                                                    |
| 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              | 880                                                                    |
| Rated outer diameter of the cable (for reference) **                         | mm              | 55                                                                     |
| Cable weight (approximate)                                                   | kg/km           | 3310                                                                   |
| Rated factory cable length and gross weight of the delivery on the drums *** | m, t            | # 22УД-60: 499 • 2.6<br># 20аУД-60: 619 • 2.7<br># 25УД-90: 1028 • 5.0 |

#### 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

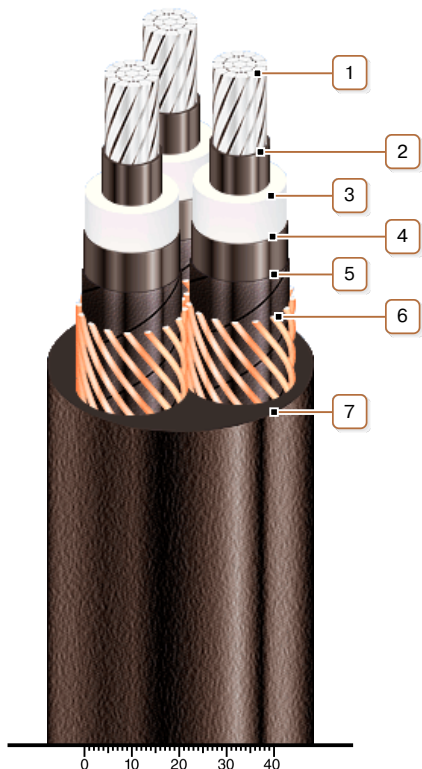
\*\* The external diameter may differ from the rated up to ± 10 %

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



## АПБЕВ-10 3x95 ТУ У 31.3-00214534-017-2003

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



### 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. PVC compound outer sheath

Note: Conductor twisting is not illustrated