



## ПвЕоВ(κ)-10 3x150 TY Y 31.3-00214534-017-2003

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

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:

ПвЕоВ(κ)-10 3x150/50 (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:

ПвЕоВ(κ)-10 3x150/50 (r) TY Y 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*

## TECHNICAL SPECIFICATIONS

|                                                                              |                 |                                              |
|------------------------------------------------------------------------------|-----------------|----------------------------------------------|
| Rated voltage                                                                | kV              | 10                                           |
| Maximum voltage                                                              | kV              | 12                                           |
| Number and rated area of conductors                                          | mm <sup>2</sup> | 3 x 150                                      |
| Insulation thickness                                                         | mm              | 3.4                                          |
| 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              | 21.5                                         |
| Permissible continuous current rating *                                      |                 |                                              |
| • <i>by aerial laying</i>                                                    | A               | 398                                          |
| • <i>by burial</i>                                                           | A               | 334                                          |
| Partial discharge factor for rated voltage, not more than                    | pC              | 6                                            |
| Maximum permissible conductor temperature                                    |                 |                                              |
| • <i>Continuous</i>                                                          | °C              | +90                                          |
| • <i>in emergency operation</i>                                              | °C              | +130                                         |
| • <i>at short circuit</i>                                                    | °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           | 7280                                         |
| Rated factory cable length and gross weight of the delivery on the drums *** | m, t            | # 22УД-60: 475 • 4.4<br># 25УД-90: 808 • 7.5 |

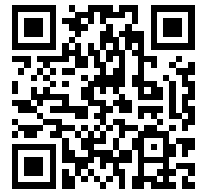
Notes:

*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

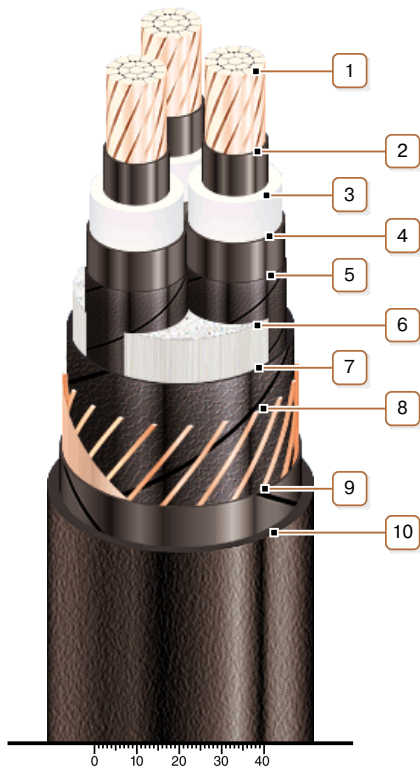
\*\* The external diameter may differ from the rated up to ± 10 %

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



## ПвЕоВ(κ)-10 3x150 ТУ У 31.3-00214534-017-2003

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



### CONSTRUCTION

#### 1. Copper multiwire compact 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. Interstitial filler with polypropylene bundles

#### 7. Lapping layer of semiconductive swellable tape

#### 8. Copper screen

#### 9. Lapping layer of synthetic paper

#### 10. PVC compound outer sheath

*Note: Conductor twisting is not illustrated*