



**ПВЭВ-30 3x120**  
**TY Y 31.3-00214534-017-2003**

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

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

N2XSEY (DE) • 2XSEY (DE) • Cu/XLPE/CWS/PVC (GB) • ПБВ (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:

ПВЭВ-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.

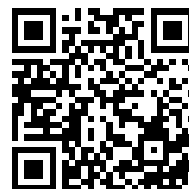
Order entry example:

ПВЭВ-30 3x120/16 (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*



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### **TECHNICAL SPECIFICATIONS**

|  |                 |   |
|--|-----------------|---|
| Rated voltage  | kV              | 30  |
| Maximum voltage  | kV              | 36  |
| Number and rated area of conductors  | mm <sup>2</sup> | 3 x 120                                       |
| Insulation thickness   | mm              | 8   |
| 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              | 17.2  |
| Permissible continuous current rating *                                      |                 |   |
| • by aerial laying   | A               | 351   |
| • by burial  | A               | 298   |
| 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              | 1264  |
| Rated outer diameter of the cable (for reference) **                         | mm              | 79  |
| Cable weight (approximate)   | kg/km           | 8720  |
| Rated factory cable length and gross weight of the delivery on the drums *** | m, t            | # 25УД-90: 443 • 5.4<br># 26УД-100: 631 • 7.3 |

#### 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

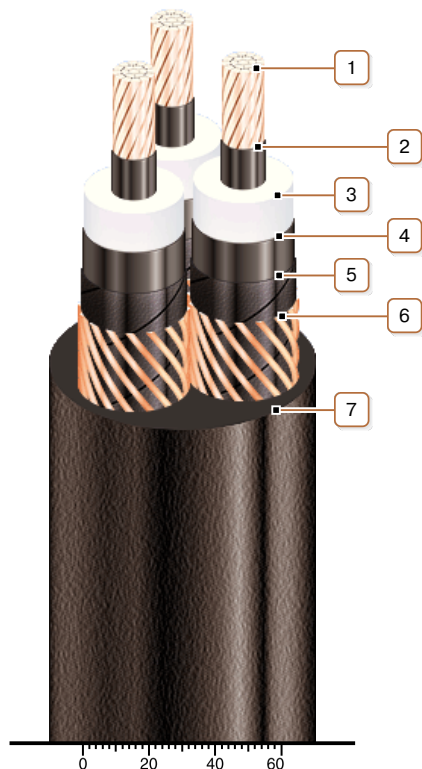
\*\* The external diameter may differ from the rated up to ± 10 %

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



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### CONSTRUCTION

**1. 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. Copper screen**

**7. PVC compound outer sheath**

*Note: Conductor twisting is not illustrated*