



ПВЭВ-6 3x50 **ТУ У 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) • ПвВ (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*
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It is possible to manufacture cables with an integrated fiber-optic module.

Order entry example:

ПВЭВ-6 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:

ПВЭВ-6 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*



ПВЭВ-6 3x50 TY Y 31.3-00214534-017-2003

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TECHNICAL SPECIFICATIONS

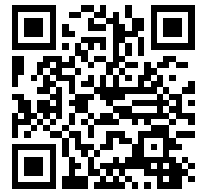
| | | |
|--|-----------------|--|
| Rated voltage | kV | 6 |
| Maximum voltage | kV | 7.2 |
| Number and rated area of conductors | mm ² | 3 x 50 |
| Insulation thickness | mm | 2.5 |
| Minimum screen cross-section | mm ² | 16 |
| Permissible short circuit current across the screen of minimum cross-section | kA | 3.3 |
| Maximum permissible short-circuit current in core | kA | 7.2 |
| Permissible continuous current rating * | | |
| • by aerial laying | A | 204 |
| • by burial | A | 181 |
| 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 | 704 |
| Rated outer diameter of the cable (for reference) ** | mm | 44 |
| Cable weight (approximate) | kg/km | 2980 |
| Rated factory cable length and gross weight of the delivery on the drums | m, t | # 18аУД-40: 879 • 3.2 # 22УД-60: 882 • 3.5 # 20аУД-60: 995 • 3.7 |

Notes:

When ordering it is necessary to agree the factory length of the product with the manufacturer

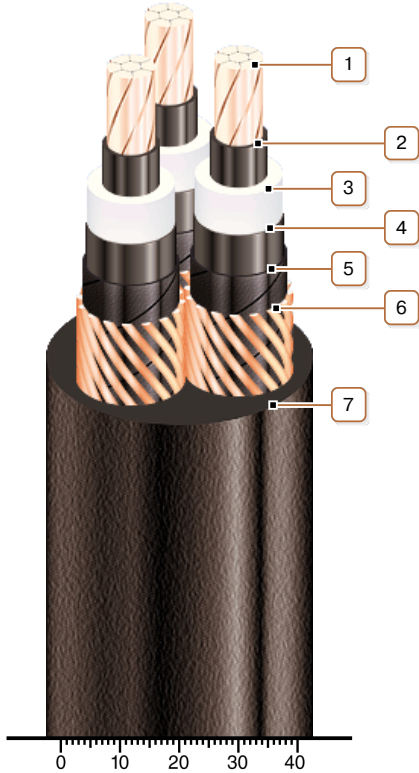
* Long permissible current loads are calculated for the following conditions: conductor temperature 90 °C, air temperature 30 °C, soil temperature 20 °C, load factor 1.0, thermal resistivity of soil 1.5 °K·m/W, laying depth in the ground 0.8 m, shields are grounded at both ends of the line

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



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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