



## **ПвЭгПл(б)-6 3x95 ТУ У 31.3-00214534-017-2003**

Three core power cables with copper conductors, XLPE-insulated, without core filling, with reinforced outer sheath of polyethylene

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Technical cable requirements correspond to IEC 60502-2

Cables are used for laying:

- *in soil (trenches)*
- *on difficult route sections, according to the unique specification*
- *in the air, including cable structures, if provided the additional fire protection*

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It is possible to manufacture cables with extruded semiconductor layer along outer sheath.

Order entry example:

ПвЭгПл(б)-П-6 3x95/16 ТУ У 31.3-00214534-017-2003

An extruded semiconductor layer along outer sheath ensures the correct testing of cable line with sections of underground laying in polymer pipes.

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It is possible to manufacture cables with an integrated fiber-optic module.

Order entry example:

ПвЭгПл(б)-6 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.

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It is possible to manufacture cable with sealed conductors.

Order entry example:

ПвЭгПл(б)-6 3x95/16 (r) ТУ У 31.3-00214534-017-2003

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## ПвЭгПу(б)-6 3x95 TY Y 31.3-00214534-017-2003

Three core power cables with copper conductors, XLPE-insulated, without core filling, with reinforced outer sheath of polyethylene

### TECHNICAL SPECIFICATIONS

|  |                 |   |
|--|-----------------|---|
| Rated voltage  | kV              | 6   |
| Maximum voltage  | kV              | 7.2   |
| Number and rated area of conductors  | mm <sup>2</sup> | 3 x 95  |
| Insulation thickness   | mm              | 2.5   |
| 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              | 13.6  |
| Permissible continuous current rating *                                      |                 |   |
| • by aerial laying   | A               | 304   |
| • by burial  | A               | 262   |
| 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  | °C              | -60 ... +50   |
| Minimum bending radius by laying   | mm              | 848   |
| Rated outer diameter of the cable (for reference) **                         | mm              | 53  |
| Cable weight (approximate)   | kg/km           | 3830  |
| Rated factory cable length and gross weight of the delivery on the drums     | m, t            | # 18аУД-40: 534 • 2.6<br># 20аУД-60: 648 • 3.2<br># 25УД-90: 1068 • 5.7 |

#### Notes:

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

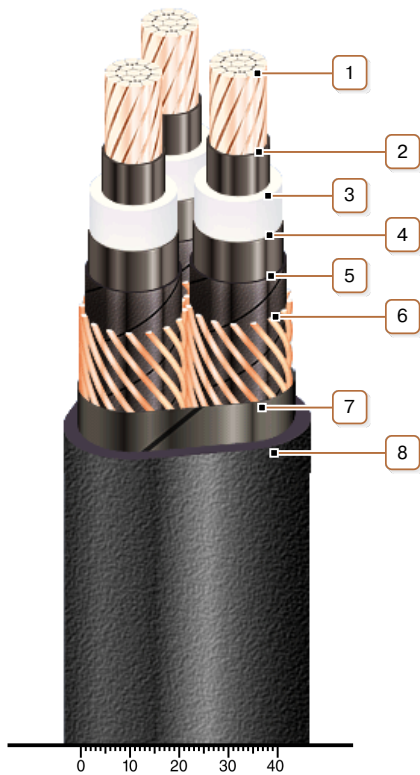
\* Long permissible current loads are calculated for the following conditions: conductor temperature 90 °C, air temperature 30 °C, soil temperature 20 °C, load factor 1.0, thermal resistivity of soil 1.5 °K·m/W, laying depth in the ground 0.8 m, shields are grounded at both ends of the line

\*\* 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. Lapping layer of semiconductive tape**

**8. Strengthened polyethylene outer sheath**

*Note: It is possible to manufacture cable with extruded semiconductor layer along outer sheath*

*Note: Conductor twisting is not illustrated*