



## **ПвЭБПу-35 3x240 ТУ У 31.3-00214534-017-2003**

Three-core power cables with copper conductors, with XLPE, steel-tape armoured, with strengthened outer polyethylene sheath

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Technical cable requirements correspond to IEC 60502-2

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Cables are used for laying:

- *in places, where mechanical impacts on cable are possible, except tensile forces*
  - *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:

ПвЭБПу-П-35 3x240/25 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:

ПвЭБПу-35 3x240/25 (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:

ПвЭБПу-35 3x240/25 (r) ТУ У 31.3-00214534-017-2003

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## ПвЭБПу-35 3x240 TY Y 31.3-00214534-017-2003

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### TECHNICAL SPECIFICATIONS

Rated voltage	kV	35
Maximum voltage	kV	42
Number and rated area of conductors	mm <sup>2</sup>	3 x 240
Insulation thickness	mm	8.6
Minimum screen cross-section	mm <sup>2</sup>	25
Permissible short circuit current across the screen of minimum cross-section	kA	5.1
Maximum permissible short-circuit current in core	kA	34.3
Permissible continuous current rating *		
• by aerial laying	A	529
• by burial	A	431
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	1616
Rated outer diameter of the cable (for reference) **	mm	101
Cable weight (approximate)	kg/km	15910
Rated factory cable length and gross weight of the delivery on the drums ***	m, t	# 30УД-130: **** 449 • 10.0

#### 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 %

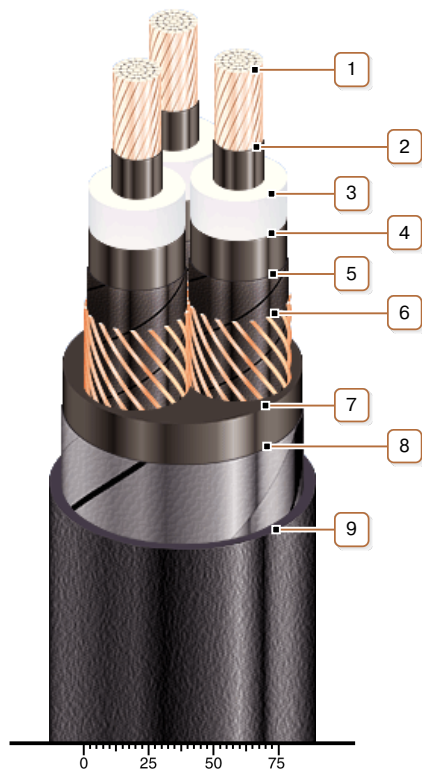
\*\*\* Отклонение фактической массы брутто от указанного значения может составлять ± 7 %

\*\*\*\* Option delivery on not full drum



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## CONSTRUCTION

1. Copper multiwire compact conductor
2. Inner extruded semiconducting layer
3. XLPE insulation
4. Outer extruded semiconducting layer
5. Lapping layer of semiconductive swellable tape
6. Copper screen
7. Extruded filling of PVC compound
8. Double galvanized steel-tape armour
9. Strengthened polyethylene outer sheath

*Note: It is possible to manufacture a cable with a fiber optic module built into the screen, including as a DTS system sensor*

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

*Note: Conductor twisting is not illustrated*