



## ПВБШВ 4x120-1 ГОСТ 16442-80, ТУ У 31.3-00214534-048:2007

Power cables with copper conductors, XLPE-insulated, galvanized steel-tape armoured, with PVC-compound protection hose

Cables are used for laying:

- *single laying*
- *in premises, dry ducts and tunnels, in corrosive environment*
- *in places, where small mechanical impacts on cable are possible, including tensile forces*

Manufacturing of non-galvanized armoured cable, covered with a layer of bitumen and PET film is possible  
 Manufacturing of cable with PVC compound belt insulation is possible

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              | 1                                                      |
| Number and rated area of conductors                                      | mm <sup>2</sup> | 4 x 120                                                |
| Phase insulation thickness                                               | mm              | 1.2                                                    |
| Permissible continuous current rating (AC of industrial frequency) *     |                 |                                                        |
| • <i>by aerial laying</i>                                                | A               | 354                                                    |
| • <i>by burial</i>                                                       | A               | 322                                                    |
| 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                                              | °C              | -50 ... +50                                            |
| Minimum bending radius by laying                                         | mm              | 322.5                                                  |
| Rated outer diameter of the cable (for reference) **                     | mm              | 43                                                     |
| Cable weight (approximate)                                               | kg/km           | 5410                                                   |
| Rated factory cable length and gross weight of the delivery on the drums | m, t            | # 16a: 520 • 3.1<br># 18: 600 • 3.7<br># 20: 960 • 5.8 |

Notes:

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

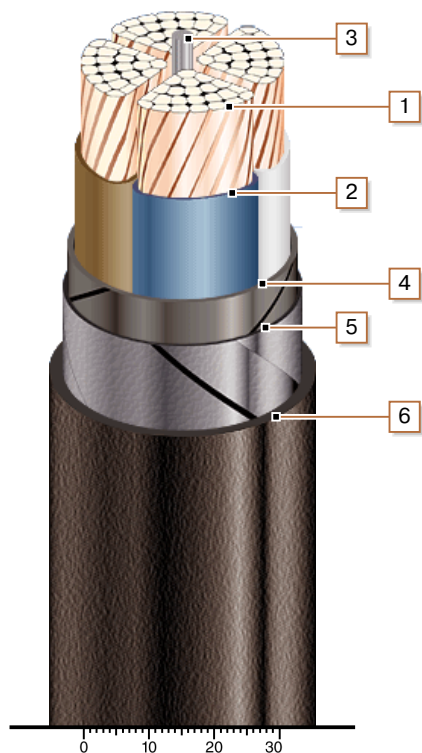
\* Long permissible current loads are calculated during operation in four-wire networks with load in all the conductors for the following conditions: air temperature plus 25 °C, soil temperature plus 15 °C, thermal resistivity of soil 1.2 °K·m/W, laying depth in the soil 0.7 m

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



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### CONSTRUCTION

1. Copper multiwire compact conductor
2. XLPE insulation
3. PVC compound bundle
4. Tape core wrapping
5. Double galvanized steel-tape armour
6. Pressed PVC compound protection hose

*Note: conductor twisting is not illustrated*