

**АПВКВнг 4x120-1**  
**ТУ У 31.3-00214534-016-2003**

Power cables with aluminium conductors, XLPE-insulated, galvanized steel-wire armoured, with low-flammable PVC-compound outer sheath

Cables are used for laying:

- *in bunches*
- *in premises, dry ducts and tunnels, in corrosive environment*
- *in places, where intense tensile forces are possible (in cable lifting, in bulk, heaving, boggy, everfrost soils)*

Manufacturing of cables with a different number and different design of conductors is possible

Manufacturing of single-phase cables with aluminium-wire armour is possible

Fire safety code in accordance with ДСТУ 4809:2007: ПБ130000000

Products of this mark meet the requirements:

- *single wire cable flame retardance*
- *bunched cable flame retardance category B*

**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             |
| Aarmor wire diameter                                                         | mm              | 2.8             |
| Permissible continious current rating (AC of industrial frequency) *         |                 |                 |
| • <i>by aerial laying</i>                                                    | A               | 269             |
| • <i>by burial</i>                                                           | A               | 248             |
| Maximum permissible conductor temperature                                    |                 |                 |
| • <i>Continuous</i>                                                          | °C              | +90             |
| • <i>at short circuit</i>                                                    | °C              | +250            |
| Operating temperature range                                                  | °C              | -50 ... +50     |
| Minimum bending radius by laying                                             | mm              | 392             |
| Rated outer diameter of the cable (for reference) **                         | mm              | 49              |
| Cable weight (approximate)                                                   | kg/km           | 4720            |
| Rated factory cable length and gross weight of the delivery on the drums *** | m, t            | # 18: 460 • 2.6 |
|                                                                              |                 | # 20: 740 • 4.1 |

Notes:

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

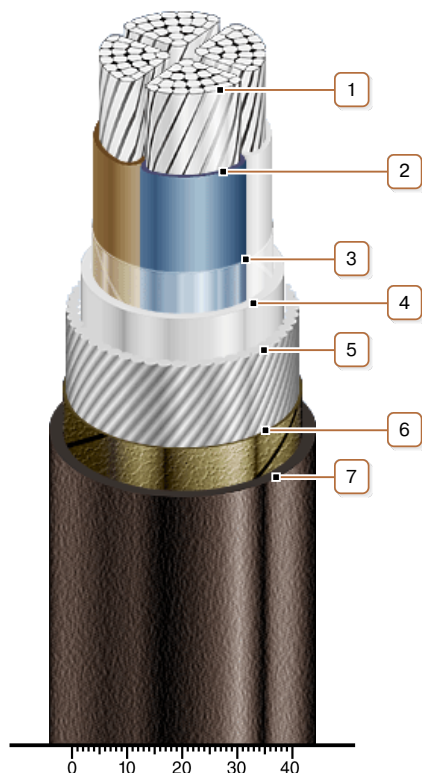
*\* Long permissible current loads are calculated during operation in four-wire networks with load in all the conductors for the following conditions: air temperature plus 25 °C, soil temperature plus 15 °C, thermal resistivity of soil 1.2 °K·m/W, laying depth in the soil 0.7 m*

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



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### CONSTRUCTION

1. Aluminium multiwire compacted conductor

2. XLPE insulation

3. PET film winding

4. PVC compound belt insulation

5. Round galvanized steel-wire armour

*Note: Manufacturing of single-phase cables with aluminium-wire armour is possible*

6. Lapping layer of nonwoven cloth tape

7. Low flammable PVC compound outer sheath

*Note: Conductor twisting is not illustrated*