



## ПВЗКП 3х120-1 TY Y 31.3-00214534-016-2003

Power cables with copper conductors, XLPE-insulated, with filling of intermediate spaces between the conductors, round-steel-wire armoured, with polyethylene outer sheath

Cables are used for laying:

- in premises, tunnels, collectors, in soil (trenches), in corrosive environment
- in places, where intense tensile forces are possible (in cable lifting, in bulk, heaving, boggy, everfrost soils)
- in water at depth up to 10 m

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: 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> | 3 x 120                                                |
| Phase insulation thickness                                                   | mm              | 1.2                                                    |
| Armor wire diameter                                                          | mm              | 2.2                                                    |
| Permissible continuous current rating (AC of industrial frequency) *         |                 |                                                        |
| • by aerial laying                                                           | A               | 381                                                    |
| • by burial                                                                  | A               | 347                                                    |
| Maximum permissible conductor temperature                                    |                 |                                                        |
| • Continuous                                                                 | °C              | +90                                                    |
| • at short circuit                                                           | °C              | +250                                                   |
| Operating temperature range                                                  | °C              | -60 ... +50                                            |
| Minimum bending radius by laying                                             | mm              | 344                                                    |
| Rated outer diameter of the cable (for reference) **                         | mm              | 43                                                     |
| Cable weight (approximate)                                                   | kg/km           | 5720                                                   |
| Rated factory cable length and gross weight of the delivery on the drums *** | m, t            | # 16a: 520 • 3.2<br># 18: 600 • 3.9<br># 20: 960 • 6.1 |

Notes:

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

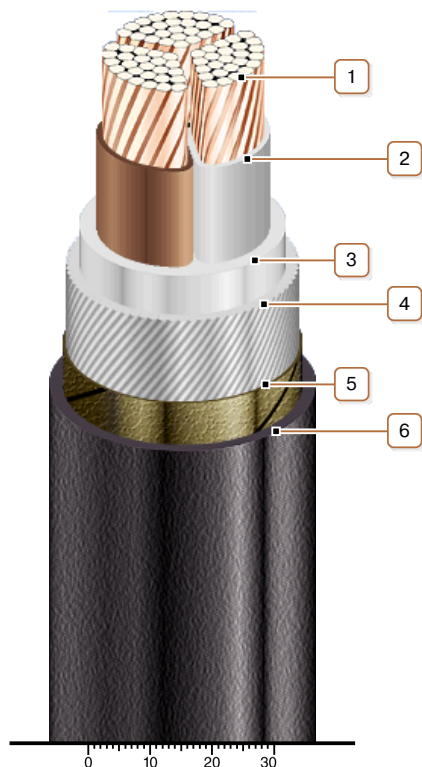
\* Long permissible current loads are calculated for the following conditions: air temperature plus 25 °C, soil temperature plus 15 °C, thermal resistivity of soil 1.2 °K·m/W, laying depth in the soil 0.7 m

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



## ПВЗКП 3х120-1 ТУ У 31.3-00214534-016-2003

Power cables with copper conductors, XLPE-insulated, with filling of intermediate spaces between the conductors, round-steel-wire armoured, with polyethylene outer sheath



### CONSTRUCTION

1. Copper multiwire compact conductor

2. XLPE insulation

3. PVC compound belt insulation

4. Round galvanized steel-wire armour

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

5. Lapping layer of nonwoven cloth tape

6. Polyethylene outer sheath

*Note: Conductor twisting is not illustrated*