



151601-011003010120

**ААПлГ 3х120+1х70(ож)-1**  
**ТУ У 27.3-00214534-091:2017**

Power cables with aluminium conductors, with impregnated paper insulation, aluminium-sheathed, steel-wire armoured

Cables are used for laying:

- *in dry premises (tunnels), ducts, cable cellars, mines, collectors, industrial and other premises, including damp, partially flooded premises, environment with medium and high corrosiveness*
- *in fire-risk premises*
- *on technological trestles*
- *on special cable bridges*
- *on bridges*
- *with a risk of mechanical damage and tensile forces in operation*

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 + 1 x 70 |
| Insulation thickness between conductors                                      | mm              | 1.7              |
| Insulation thickness of conductor-sheath                                     | mm              | 1.45             |
| Sheath thickness                                                             | mm              | 1.4              |
| Permissible continuous current rating *                                      |                 |                  |
| • <i>by aerial laying</i>                                                    | A               | 261              |
| • <i>by burial</i>                                                           | A               | 248              |
| Operating temperature range                                                  | °C              | -50 ... +50      |
| Minimum bending radius by laying                                             | mm              | 1125             |
| Level difference along the laying rout, not more than                        | m               | 25               |
| Metal sheath outer diameter (for reference only)                             | mm              | 33               |
| Rated outer diameter of the cable (for reference) **                         | mm              | 45               |
| Cable weight (approximate)                                                   | kg/km           | 4020             |
| Rated factory cable length and gross weight of the delivery on the drums *** | m, t            | # 18: 550 • 2.7  |

Notes:

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

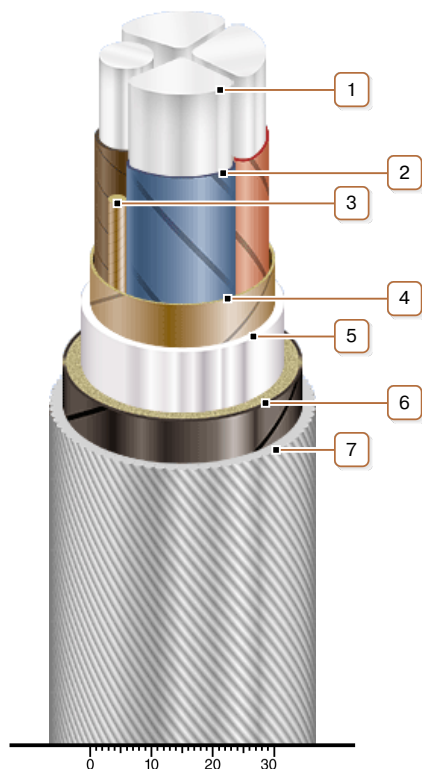
\* Long permissible current loads are calculated for the following conditions: air temperature plus 25 °C, soil temperature plus 15 °C, thermal resistivity of soil 1.2 °K·m/W, laying depth in the soil 0.7 m

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



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### CONSTRUCTION

1. Aluminium conductor
2. Impregnated paper insulation
3. Cable paper bundle
4. Belt insulation
5. Aluminium sheath
6. Single-layer plastic-tape bedding
7. Round galvanized steel-wire armour

*Note: Conductor twisting is not illustrated*