

## ААПл 3х70-10 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 soil (trenches) with medium corrosiveness without vagabond currents*
- *with a risk of mechanical damage and tensile forces in operation*

### TECHNICAL SPECIFICATIONS

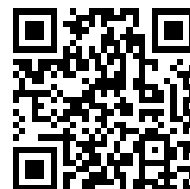
|                                                                              |                 |                                    |
|------------------------------------------------------------------------------|-----------------|------------------------------------|
| Rated voltage                                                                | kV              | 10                                 |
| Number and rated area of conductors                                          | mm <sup>2</sup> | 3 x 70                             |
| Insulation thickness between conductors                                      | mm              | 5.5                                |
| Insulation thickness of conductor-sheath                                     | mm              | 4                                  |
| Sheath thickness                                                             | mm              | 1.5                                |
| Permissible continuous current rating *                                      |                 |                                    |
| • <i>by aerial laying</i>                                                    | A               | 161                                |
| • <i>by burial</i>                                                           | A               | 162                                |
| Operating temperature range                                                  | °C              | -50 ... +50                        |
| Minimum bending radius by laying                                             | mm              | 1325                               |
| Level difference along the laying rout, not more than                        | m               | 15                                 |
| Metal sheath outer diameter (for reference only)                             | mm              | 36                                 |
| Rated outer diameter of the cable (for reference) **                         | mm              | 53                                 |
| Cable weight (approximate)                                                   | kg/km           | 4620                               |
| Rated factory cable length and gross weight of the delivery on the drums *** | m, t            | # 18: 400 • 2.3<br># 20: 630 • 3.5 |

Notes:

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

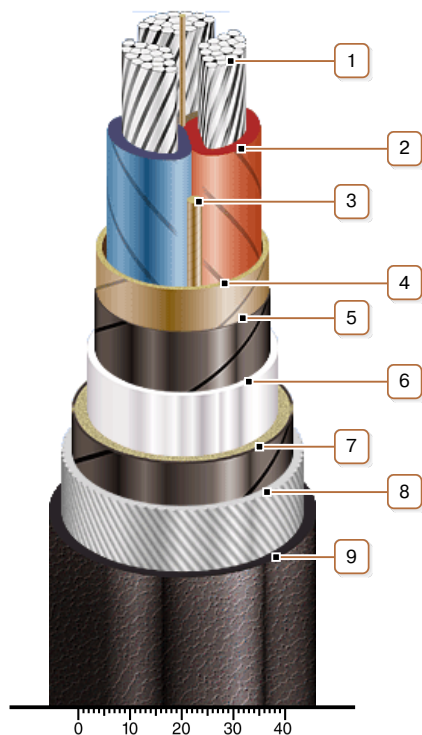
\* Long permissible current loads are calculated for the following conditions: air temperature plus 25 °C, soil temperature plus 15 °C, thermal resistivity of soil 1.2 °K·m/W, laying depth in the soil 0.7 m

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



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### CONSTRUCTION

1. Aluminium multiwire compacted conductor
2. Impregnated paper insulation
3. Cable paper bundle
4. Belt insulation
5. Conducting paper screen
6. Aluminium sheath
7. Single-layer plastic-tape bedding
8. Round galvanized steel-wire armour
9. Outer covering

*Note: Conductor twisting is not illustrated*