



## ААПл 4х185(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 soil (trenches) with medium corrosiveness without vagabond currents*
- *with a risk of mechanical damage and tensile forces in operation*

### TECHNICAL SPECIFICATIONS

|                                                                              |                 |                                                       |
|------------------------------------------------------------------------------|-----------------|-------------------------------------------------------|
| Rated voltage                                                                | kV              | 1                                                     |
| Number and rated area of conductors                                          | mm <sup>2</sup> | 4 x 185                                               |
| Insulation thickness between conductors                                      | mm              | 1.9                                                   |
| Insulation thickness of conductor-sheath                                     | mm              | 1.55                                                  |
| Sheath thickness                                                             | mm              | 1.65                                                  |
| Permissible continious current rating *                                      |                 |                                                       |
| • <i>by aerial laying</i>                                                    | A               | 318                                                   |
| • <i>by burial</i>                                                           | A               | 292                                                   |
| Operating temperature range                                                  | °C              | -50 ... +50                                           |
| Minimum bending radius by laying                                             | mm              | 1475                                                  |
| Level difference along the laying rout, not more than                        | m               | 25                                                    |
| Metal shaeth outer diameter (for reference only)                             | mm              | 42                                                    |
| Rated outer diameter of the cable (for reference) **                         | mm              | 59                                                    |
| Cable weight (approximate)                                                   | kg/km           | 6180                                                  |
| Rated factory cable length and gross weight of the delivery on the drums *** | m, t            | # 18: 320 • 2.4<br># 20: 510 • 3.8<br># 22: 580 • 4.4 |

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 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
8. Outer covering

*Note: Conductor twisting is not illustrated*

