

ААПл 4х120-1 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 ² | 4 x 120 |
| Insulation thickness between conductors | mm | 1.7 |
| Insulation thickness of conductor-sheath | mm | 1.45 |
| Sheath thickness | mm | 1.5 |
| Permissible continuous current rating * | | |
| • <i>by aerial laying</i> | A | 243 |
| • <i>by burial</i> | A | 231 |
| Operating temperature range | °C | -50 ... +50 |
| Minimum bending radius by laying | mm | 1325 |
| Level difference along the laying rout, not more than | m | 25 |
| Metal sheath outer diameter (for reference only) | mm | 36 |
| Rated outer diameter of the cable (for reference) ** | mm | 53 |
| Cable weight (approximate) | kg/km | 5270 |
| Rated factory cable length and gross weight of the delivery on the drums *** | m, t | # 18: 400 • 2.6 # 20: 630 • 4.0 |

Notes:

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

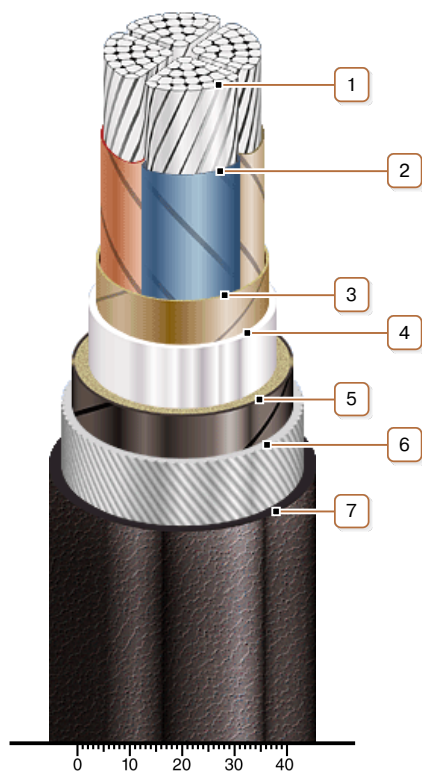
* Long permissible current loads are calculated during operation in four-wire networks with load in all the conductors for the following conditions: air temperature plus 25 °C, soil temperature plus 15 °C, thermal resistivity of soil 1.2 °K·m/W, laying depth in the soil 0.7 m

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



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CONSTRUCTION

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

Note: Conductor twisting is not illustrated