



ААПл 4x185-1 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 185
Insulation thickness between conductors	mm	1.9
Insulation thickness of conductor-sheath	mm	1.55
Sheath thickness	mm	1.75
Permissible continuous 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	1550
Level difference along the laying rout, not more than	m	25
Metal sheath outer diameter (for reference only)	mm	45
Rated outer diameter of the cable (for reference) **	mm	62
Cable weight (approximate)	kg/km	6860
Rated factory cable length and gross weight of the delivery on the drums ***	m, t	# 20: 440 • 3.7 # 22: 500 • 4.2

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. 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

