YUZHCABLE
PRODUCTION GUIDE

180123-141200100000

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АПвБбШв 4х120 (ож)-1
ТУ У 31.3-00214534-048:2007

Power cables with aluminium conductors, XLPE-insulated, galvanized steel-tape armoured, with PVC-compound protection hose

Cables are used for laying:
- *single laying*
- *in premises, dry ducts and tunnels, in corrosive environment*
- *in places, where small mechanical impacts on cable are possible, including tensile forces*

Manufacturing of cable with multiwire conductors is possible
Manufacturing of non-galvanized armoured cable, covered with a layer of bitumen and PET film is possible
Manufacturing of cable with PVC compound belt insulation is possible

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^2	4 x 120
Phase insulation thikness	mm	1.2
Permissible continious current rating (AC of industrial frequency) *		
• *by aerial laying*	A	269
• *by burial*	A	248
Maximum permissible conductor temperature		
• *Continious*	˚C	+90
• *in emergency operation*	˚C	+130
• *at short circuit*	˚C	+250
Operating temperature range	˚C	-50 ... +50
Minimum bending radius by laying	mm	315
Rated outer diameter of the cable (for reference) **	mm	42
Cable weight (approximate)	kg/km	2390
Rated factory cable length and gross weight of the delivery on the drums ***	m, t	# 16a: 570 • 1.6 # 18: 660 • 2.0 # 20: 1050 • 3.1

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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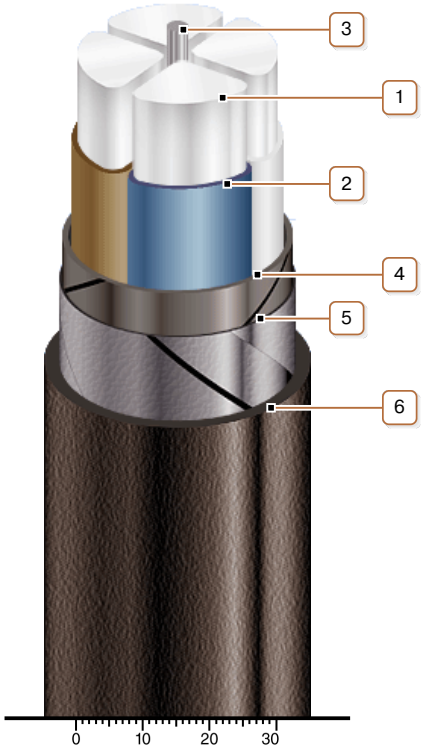

CONSTRUCTION

1. *Aluminium conductor*
2. *XLPE insulation*
3. *PVC compound bundle*
4. *Tape core wrapping*
5. *Double galvanized steel-tape armour*
6. *Pressed PVC compound protection hose*

Note: Conductor twisting is not illustrated

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