7, Autogennaya Str., Kharkov, 61099, Ukraine. Phone: (+38-057) 728-1244, 728-1241. Fax: (+38-057) 728-1243, (+38-0572) 946-830
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180101-115000200000

АВБбШв 1х500-1
ТУ У 31.3-00214534-048:2007

Power cables with aluminium conductors, with PVC-compound insulation, galvanized steel-tape armoured, with low-flammable 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 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	1 x 500
Phase insulation thikness	mm	2.8
Permissible continious current rating (AC of industrial frequency) *		
• *by aerial laying*	A	636
• *by burial*	A	556
Permissible continious current rating (DC) *		
• *by aerial laying*	A	819
• *by burial*	A	870
Maximum permissible conductor temperature		
• *Continious*	˚C	+70
• *in emergency operation*	˚C	+90
• *at short circuit*	˚C	+140
Operating temperature range	˚C	-50 ... +50
Minimum bending radius by laying	mm	420
Rated outer diameter of the cable (for reference) **	mm	42
Cable weight (approximate)	kg/km	2600
Rated factory cable length and gross weight of the delivery on the drums ***	m, t	# 18: 660 • 2.2 # 20: 1050 • 3.4

Notes:

When ordering it is neccesary 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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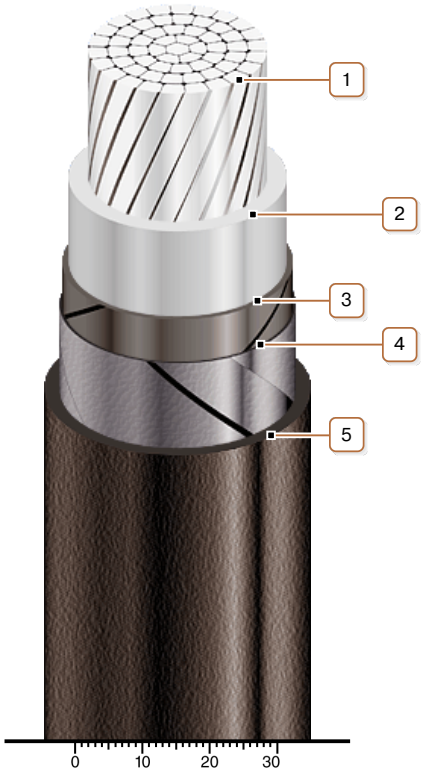

CONSTRUCTION

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

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