YUZHCABLE
PRODUCTION GUIDE

180106-313000200000

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ВБбШнгд 1х300-3
ТУ У 31.3-00214534-018-2003

Power cables with copper conductors, with low-flammable PVC-compound insulation, galvanized steel-tape armoured, with PVC-compound protection hose

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

Fire safety code in accordance with ДСТУ 4809:2007: ПБ123121000
Products of this mark meet the requirements:
- *single wire cable flame retardance*
- *bunched cable flame retardance category A*
- *toxicity class Тк3 of the combustion products of nonmetallic elements (toxicity index over 120 g/m^3)*
- *class ДТк1 on smoke-forming ability by smouldering of non-metallic elements (coefficient of smoke formation from 50 to 500 m^2/kg)*
- *class ДПк2 on smoke-forming ability by combustion (minimum luminous flux more than 60 %)*
- *corrosive class Кк1 of combustion products of non-metallic elements (the number of halogen hydrides less than 150 mg/g, pH less than 4.3, specific conductivity more than 10 μS/mm)*

TECHNICAL SPECIFICATIONS

Rated voltage	kV	3
Number and rated area of conductors	mm^2	1 x 300
Phase insulation thikness	mm	2.4
Permissible continious current rating (AC of industrial frequency) *		
• *by aerial laying*	A	591
• *by burial*	A	539
Permissible continious current rating (DC) *		
• *by aerial laying*	A	760
• *by burial*	A	845
Maximum permissible conductor temperature		
• *Continious*	°C	+70
• *in emergency operation*	°C	+80
• *at short circuit*	°C	+130
Operating temperature range	°C	-50 ... +50
Minimum bending radius by laying	mm	360
Rated outer diameter of the cable (for reference) **	mm	36
Cable weight (approximate)	kg/km	4030
Rated factory cable length and gross weight of the delivery on the drums ***	m, t	# 16a: 780 • 3.4 # 18: 890 • 4.0

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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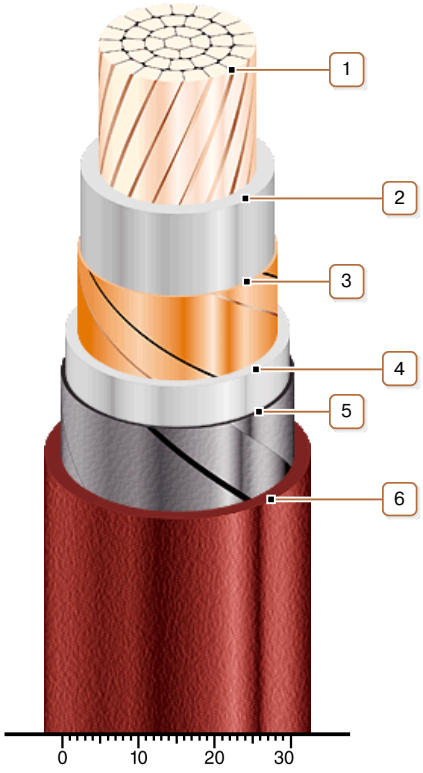

CONSTRUCTION

1. *Copper multiwire compact conductor*
2. *Low fire-risk PVC compound insulation*
3. *Copper screen*
4. *Low fire-risk PVC-compound inner sheath*
5. *Double galvanized steel-tape armour*
6. *Pressed off low fire-risk PVC compound protection hose*

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