



ВВГнгд 4х50-1 ТУ У 31.3-00214534-018-2003

Power cables with copper conductors, with low fire-risk PVC-compound insulation, with low fire-risk PVC-compound outer sheath

Cables are used for laying:

- *in bunches*
- *in premises, dry ducts and tunnels, in corrosive environment*
- *in bunches, in crowded places*

Manufacturing of cable with multiwire conductors is possible

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 Tk3 of the combustion products of nonmetallic elements (toxicity index over 120 g/m³)*
- *class ДТк1 on smoke-forming ability by smouldering of non-metallic elements (coefficient of smoke formation from 50 to 500 m²/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

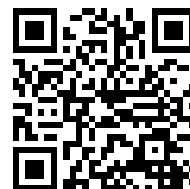
Rated voltage	kV	1
Number and rated area of conductors	mm ²	4 x 50
Phase insulation thickness	mm	1.4
Permissible continuous current rating (AC of industrial frequency) *		
• <i>by aerial laying</i>	A	155
• <i>by burial</i>	A	173
Maximum permissible conductor temperature		
• <i>Continuous</i>	°C	+70
• <i>in emergency operation</i>	°C	+80
• <i>at short circuit</i>	°C	+130
Operating temperature range	°C	-50 ... +50
Minimum bending radius by laying	mm	247.5
Rated outer diameter of the cable (for reference) **	mm	33
Cable weight (approximate)	kg/km	2550
Rated factory cable length and gross weight of the delivery on the drums	m, t	# 14: 540 • 1.6 # 16a: 870 • 2.5 # 18: 1000 • 3.0

Notes:

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

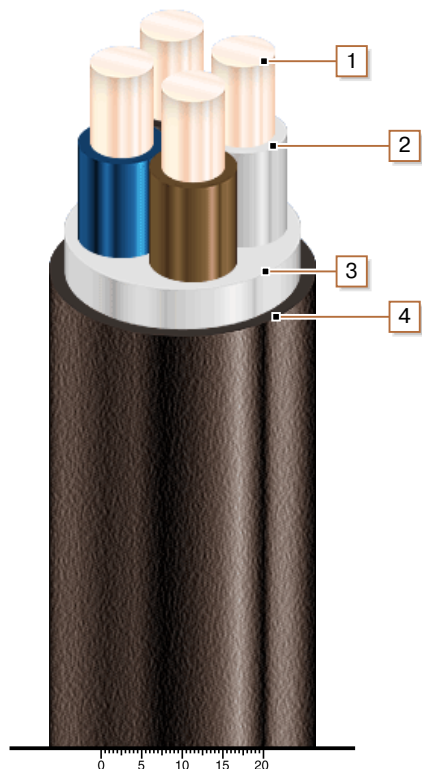
* Long permissible current loads are calculated during operation in four-wire networks with load in all the conductors for the following conditions: air temperature plus 25 °C, soil temperature plus 15 °C, thermal resistivity of soil 1.2 °K·m/W, laying depth in the soil 0.7 m

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



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CONSTRUCTION

1. Copper conductor
2. Low fire-risk PVC compound insulation
3. Low fire-risk PVC-compound inner sheath
4. Low fire-risk PVC compound outer sheath

Note: conductor twisting is not illustrated