



СБнлШнгд 3х185-10 ТУ У 27.3-00214534-091:2017

Power cables with copper conductors, with impregnated paper insulation, lead-sheathed, steel-tape armoured, with low-flammable PVC-compound protection hose

Cables are used for laying:

- *in fire-risk premises*
- *on special cable bridges*
- *with a risk of mechanical damage and no tensile forces in operation*
- *at sites, where low smoke and gas emission are required in the process of combustion and smouldering: NPP, electrical generating stations, subway, high-rise buildings, large industrial facilities and etc.*

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 Kk1 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	10
Number and rated area of conductors	mm ²	3 x 185
Insulation thickness between conductors	mm	5.5
Insulation thickness of conductor-sheath	mm	4
Sheath thickness	mm	1.66
Permissible continuous current rating *		
• <i>by aerial laying</i>	A	442
• <i>by burial</i>	A	352
Operating temperature range	°C	-50 ... +50
Minimum bending radius by laying	mm	915
Level difference along the laying rout, not more than	m	15
Metal sheath outer diameter (for reference only)	mm	49
Rated outer diameter of the cable (for reference) **	mm	61
Cable weight (approximate)	kg/km	11230
Rated factory cable length and gross weight of the delivery on the drums ***	m, t	# 18: 270 • 3.5

Notes:

When ordering it is necessary 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. Impregnated paper insulation
3. Cable paper bundle
4. Belt insulation
5. Conducting paper screen
6. Lead sheath
7. Plastic-tape and glass-tape bedding
8. Double galvanized steel-tape armour
9. Pressed off low fire-risk PVC compound protection hose

Note: Conductor twisting is not illustrated

