



ААБвШнгд 3х185-1 ТУ У 27.3-00214534-091:2017

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

Cables are used for laying:

- *in dry premises (tunnels), ducts, cable cellars, mines, collectors, industrial and other premises, including damp, partially flooded premises, environment with medium and high corrosiveness*
- *in fire-risk premises*
- *on technological trestles*
- *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 Kк1 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)*



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TECHNICAL SPECIFICATIONS

| | | |
|--|-----------------|------------------------------------|
| Rated voltage | kV | 1 |
| Number and rated area of conductors | mm ² | 3 x 185 |
| Insulation thickness between conductors | mm | 1.9 |
| Insulation thickness of conductor-sheath | mm | 1.55 |
| Sheath thickness | mm | 1.55 |
| Permissible continuous current rating * | | |
| • by aerial laying | A | 342 |
| • by burial | A | 314 |
| Operating temperature range | °C | -50 ... +50 |
| Minimum bending radius by laying | mm | 1325 |
| Level difference along the laying rout, not more than | m | 25 |
| Metal sheath outer diameter (for reference only) | mm | 40 |
| Rated outer diameter of the cable (for reference) ** | mm | 53 |
| Cable weight (approximate) | kg/km | 4440 |
| Rated factory cable length and gross weight of the delivery on the drums | m, t | # 18: 400 • 2.2 # 20: 630 • 3.4 |

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 %

CONSTRUCTION

1. Aluminium multiwire compacted conductor
2. Impregnated paper insulation
3. Cable paper bundle
4. Belt insulation
5. Aluminium sheath
6. Bedding with PVC compound moulded-in hose
7. Double galvanized steel-tape armour
8. Pressed off low fire-risk PVC compound protection hose

Note: Conductor twisting is not illustrated

