



## NHXMH-O 4x6 DIN VDE 0250-214

Power cables with copper conductors, XLPE-insulated, with halogen-free polymer compound outer sheath

Cables are used for:

- *electric wiring and cable lines installation in industrial, residential and public buildings and facilities*
- *laying over the plaster, inside and under plaster, in brick masonry and concrete, in pipes and ducts*
- *wiring in office premises equipped with computer and microprocessor equipment, in kindergartens, schools, hospitals, for cable lines of entertainment complexes and sports facilities*
- *outdoor installation, if protected from sun rays*

Manufacturing of cables with light-stabilized outer sheath is possible

Fire safety code in accordance with ДСТУ 4809:2007: ПБ123122000

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/m<sup>3</sup>)*
- *class ДТк1 on smoke-forming ability by smouldering of non-metallic elements (coefficient of smoke formation from 50 to 500 m<sup>2</sup>/kg)*
- *class ДПк2 on smoke-forming ability by combustion (minimum luminous flux more than 60 %)*
- *corrosive class Kk2 of combustion products of non-metallic elements (the number of halogen hydrides less than 150 mg/g, pH more than 4.3, specific conductivity less than 10 μS/mm)*

## TECHNICAL SPECIFICATIONS

|                                                                              |                 |                                      |
|------------------------------------------------------------------------------|-----------------|--------------------------------------|
| Rated voltage                                                                | kV              | 0.66                                 |
| Number and rated area of conductors                                          | mm <sup>2</sup> | 4 x 6                                |
| Insulation thickness                                                         | mm              | 0.6                                  |
| Permissible continuous current rating *                                      |                 |                                      |
| • <i>by aerial laying (AC of industrial frequency) *</i>                     | A               | 52                                   |
| • <i>by burial (AC of industrial frequency) *</i>                            | A               | 59                                   |
| Operating temperature range                                                  | °C              | -50 ... +50                          |
| Minimum bending radius by laying                                             | mm              | 57.6                                 |
| Rated outer diameter of the cable (for reference) **                         | mm              | 14.4                                 |
| Cable weight (approximate)                                                   | kg/km           | 430                                  |
| Rated factory cable length and gross weight of the delivery on the drums *** | m, t            | # 10: 1210 • 0.6<br># 12: 1670 • 0.8 |

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. XLPE insulation
  3. Halogen-free polymer compound inner sheath
  4. Outer sheath of halogen-free polymer composition
- Note: Manufacturing of cables with light-stabilized outer sheath is possible*

