

**NHXMH-O 5x1.5**  
**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> | 5 x 1.5     |
| Insulation thickness                                     | mm              | 0.5         |
| Permissible continuous current rating *                  |                 |             |
| • <i>by aerial laying (AC of industrial frequency) *</i> | A               | 23          |
| • <i>by burial (AC of industrial frequency) *</i>        | A               | 28          |
| Operating temperature range                              | °C              | -50 ... +50 |
| Minimum bending radius by laying                         | mm              | 41.6        |
| Rated outer diameter of the cable (for reference) **     | mm              | 10.4        |
| Cable weight (approximate)                               | kg/km           | 180         |

Notes:

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

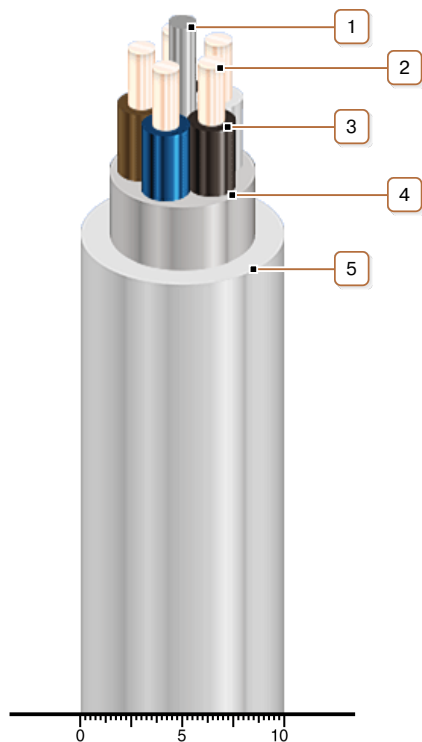
*\* Long permissible current loads are calculated for the following conditions: air temperature plus 25 °C, soil temperature plus 15 °C, thermal resistivity of soil 1.2 °K·m/W, laying depth in the soil 0.7 m*

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



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### **CONSTRUCTION**

1. *Filling harness*
  2. *Copper conductor*
  3. *XLPE insulation*
  4. *Halogen-free polymer compound inner sheath*
  5. *Outer sheath of halogen-free polymer composition*
- Note: Manufacturing of cables with light-stabilized outer sheath is possible*