



## СИПН-4 4x120+1x25 ДСТУ 4743:2007, ТУ У 27.3-00214534-079:2014

Self-supporting flame-retardant wires with polymer compound insulation

Used for laying:

- *aerial electric power lines for the rated voltage of 0.6/1 kV*
- *branches from aerial electric power lines for the rated voltage of 0.6/1 kV to the input and for the laying on the walls of buildings and engineering structures*
- *in air, types II and III according to ГОСТ 15150-69*

It is possible to manufacture the wire with longitudinal core sealing by water-blocking materials

Fire safety code in accordance with ДСТУ 4809:2007: ПБ100000000

Products of this mark meet the requirements:

- *single wire cable flame retardance*

### TECHNICAL SPECIFICATIONS

|                                                                              |                 |                                    |
|------------------------------------------------------------------------------|-----------------|------------------------------------|
| Rated voltage                                                                | kV              | 0.6 / 1                            |
| Number and rated area of phase conductors                                    | mm <sup>2</sup> | 4 x 120                            |
| Number and rated area of additional conductors for light circuits            | mm <sup>2</sup> | 1 x 25                             |
| Phase insulation thickness                                                   | mm              | 1.7                                |
| Current ratings *                                                            |                 |                                    |
| • <i>Continuous</i>                                                          | A               | 340                                |
| • <i>at short circuit (not more than 1 s)</i>                                | kA              | 10.9                               |
| Maximum permissible conductor temperature                                    |                 |                                    |
| • <i>Continuous</i>                                                          | °C              | +90                                |
| • <i>at short circuit (not more than 5 s)</i>                                | °C              | +250                               |
| Operating temperature range                                                  | °C              | -60 ... +50                        |
| Permissible temperature of laying (installation), no less than               | °C              | -20                                |
| Minimum bending radius by laying                                             | mm              | 437                                |
| Rated outer diameter of the cable (for reference) **                         | mm              | 43.7                               |
| Weight (approximate)                                                         | kg/km           | 1670                               |
| Rated factory cable length and gross weight of the delivery on the drums *** | m, t            | # 18: 600 • 1.5<br># 20: 960 • 2.2 |

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: ambient temperature plus 25 °C, wind speed 0.6 m/s, the intensity of solar radiation 1000 W/m<sup>2</sup>

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



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### CONSTRUCTION

#### 1. Aluminium multiwire compacted conductor

*Note: It is possible to manufacture the wire with longitudinal core sealing by water-blocking materials*

#### 2. Multiwire compacted aluminium assisting conductor for light circuits

#### 3. Flame-retardant polymer compound insulation

*Note: Wire lay-up is not illustrated.*

