



## СИПН-1 3x50+1x50+1x25 ДСТУ 4743:2007, ТУ У 27.3-00214534-066:2013

Self-supporting flame-retardant wires with polymer compound insulation, with neutral carrier non-insulated conductor

Used for laying:

- *trunks of aerial electric power lines and line branches for the rated voltage of 0.6/1 kV*
- *in air, types I and II 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: ПБ1000000000

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> | 3 x 50  |
| Number and rated area of additional conductors for light circuits            | mm <sup>2</sup> | 1 x 25  |
| Carrier neutral conductor rated area   | mm <sup>2</sup> | 50  |
| Phase insulation thickness   | mm              | 1.5   |
| Current ratings *  |                 |   |
| • <i>Continuous</i>  | A               | 195   |
| • <i>at short circuit (not more than 1 s)</i>                                | kA              | 4.6   |
| 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              | 308   |
| Rated outer diameter of the cable (for reference) **                         | mm              | 30.8  |
| Weight (approximate)   | kg/km           | 740   |
| Rated factory cable length and gross weight of the delivery on the drums *** | m, t            | # 16a: 1120 • 1.1<br># 18: 1290 • 1.4<br># 20: 2060 • 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 aluminium-alloy compacted supporting conductor

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

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

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

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

