



## СИПН-1 3x70+1x95+2x16 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 70           |
| Number and rated area of additional conductors for light circuits        | mm <sup>2</sup> | 2 x 16           |
| Carrier neutral conductor rated area                                     | mm <sup>2</sup> | 95               |
| Phase insulation thickness                                               | mm              | 1.5              |
| Current ratings *                                                        |                 |                  |
| • <i>Continuous</i>                                                      | A               | 240              |
| • <i>at short circuit (not more than 1 s)</i>                            | kA              | 6.5              |
| 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              | 372              |
| Rated outer diameter of the cable (for reference) **                     | mm              | 37.2             |
| Weight (approximate)                                                     | kg/km           | 1110             |
| Rated factory cable length and gross weight of the delivery on the drums | m, t            | # 16a: 700 • 1.0 |
|                                                                          |                 | # 18: 800 • 1.3  |
|                                                                          |                 | # 20: 1280 • 2.1 |

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
2. Multiwire compacted aluminium assisting conductor for light circuits
3. Multiwire aluminium-alloy compacted supporting conductor
4. Flame-retardant polymer compound insulation

*Note: wire lay-up is not illustrated*

