



## СИПН-1 3x70+1x95+1x16 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> | 1 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           | 1050                                                    |
| Rated factory cable length and gross weight of the delivery on the drums *** | m, t            | # 16a: 700 • 1.0<br># 18: 800 • 1.3<br># 20: 1280 • 2.0 |

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.*

