



## СИПН-3-35 1x150 ДСТУ 4743:2007, ТУ У 27.3-00214534-066:2013

Single-core self-supporting high-voltage flame-retardant wires with polymer compound insulation

Used for laying:

- *aerial electric power lines for the rated voltage from 10 kV till 35 kV*
- *in air, types II and III according to ГОСТ 15150-69, including on sea coasts, salt lakes, in industrial areas and areas of saline sands*

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              | 35  |
| Number and rated area of phase conductors                                | mm <sup>2</sup> | 1 x 150   |
| Phase insulation thickness   | mm              | 3.5   |
| Current ratings *  |                 |   |
| • <i>Continuous</i>  | A               | 520   |
| • <i>at short circuit (not more than 1 s)</i>                            | kA              | 12.9  |
| 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              | 213   |
| Rated outer diameter of the cable (for reference) **                     | mm              | 21.3  |
| Weight (approximate)   | kg/km           | 590   |
| Rated factory cable length and gross weight of the delivery on the drums | m, t            | # 16a: 2090 • 1.5<br># 18: 2390 • 1.9<br># 20: 3820 • 2.9 |

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. Multiwire aluminium-alloy compacted conductor

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